



Thermometers & Instrumentation



Scientific Catalogue

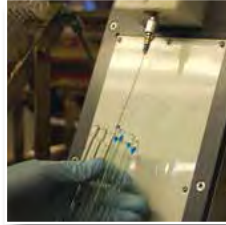
- Calibration Services
- Laboratory Thermometers
- Digital & Electronic Instrumentation
- Special Application Instrumentation
- Hydrometers



Measuring Success

Brannan Thermometers & Instrumentation

Measuring Success



S. Brannan & Sons has manufactured and supplied thermometers, gauges and instrumentation since 1913.

Over a century of tradition, combined with modern manufacturing methods at our facilities in the UK ensure unequalled service.

The Company has operated a quality management system since 1991 and currently operates within the scope of ISO 9001: 2008.

Complimenting our production facilities, the Company provides a calibration service operating its own UKAS accredited laboratory where, in addition to having new thermometers tested, customers may also have existing instruments re-calibrated.

Following the 2014 EU ban on mercury, a wide choice of electronic instruments and organic, non-hazardous filling materials, including our Patented **LO-tox**TM fillings, are available.

This catalogue describes a wide range of products for a variety of applications. Standard items are normally available for immediate delivery. Many can be supplied with customer branding or include modifications to suit special applications.

Products in this catalogue are generally supplied on **Brannan** standard packaging, or customer's own packaging (quantity dependant) and many are also available bulk packed.

Customers' requirements can be discussed with our Sales Team.
Products may also be viewed our website: www.brannan.co.uk

Please note:

- All electronic instruments are supplied with batteries and full instructions.
- All dimensions are for unpacked products
- All information is correct at time of printing but our policy is one of continuous product development. We reserve the right to change specification without notice.



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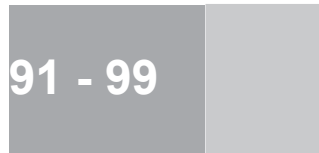
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Brannan

**Brannan Thermometers & Instrumentation**

is located in Cleator Moor on the western fringe of the English Lake District.

Please see below contact details for assistance with your enquiries or to place an order.

All of our prices are competitive and quantity discounts apply.

Alternatively, small orders can be placed on our webshop.

WEB SHOP

www.brannanshop.co.uk

WEBSITE

www.brannan.co.uk

EMAIL

sales@brannan.co.uk

PHONE

+ 44 (0)1946 816600

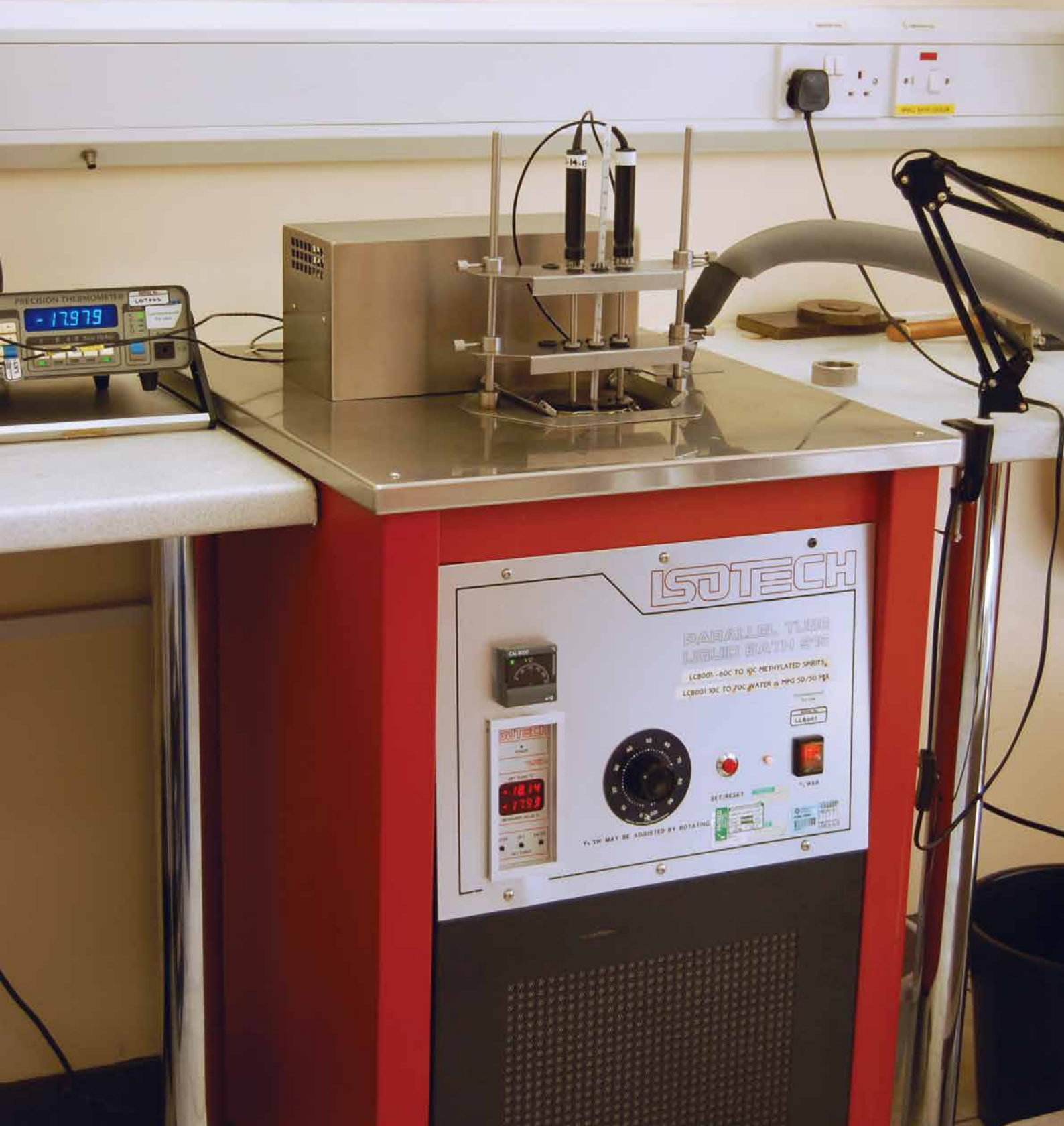
FAX

+ 44 (0)1946 816625

ADDRESS

S.Brannan & Sons
Leconfield Industrial Estate
Cleator Moor
Cumbria
UK
CA25 5QE





Calibration Services

UKAS Accredited Laboratory
Certificate of Calibration



To complement the production facilities of **S. Brannan & Sons**, a comprehensive calibration service is available for a variety of instruments including thermometers, pressure gauges and hydrometers. In addition, we are able to calibrate many other measuring instruments, such as electronic max mins and weatherstations, data loggers and wall thermometers, either UKAS Accredited or certification Traceable to National Standards.

This service is available, for an additional charge, at time of product's purchase or for customers own existing instruments. Please contact our Sales Team to discuss the suitability of your instrument for calibration.



The table below shows standard instruments and their most compatible certification.

Instrument Type	UKAS Accredited	Traceable to National Standards
Liquid in Glass Thermometers	✓	✓
Dial Analogue Thermometers	✓	✓
Electronic Thermometers with Indicators	✓	✓
Measurements of Temperature in Air	✗	✓
Infrared Thermometers	✗	✓
Pressure	✗	✓
Hydrometers	✓	✓

What is a Calibration & Why Calibrate

- A calibration is a procedure in which an instrument is tested to ensure it conforms with a recognised standard and is used to verify the accuracy of an instrument.
- By comparing an instrument of a known value against a second instrument (unit under test), the difference can be calculated and suitable corrections determined.

Re-Calibration

- The calibration frequency for a specific thermometer is up to the individual customer.
- It should be based on factors such as:
 - The environment in which the instrument is used,
 - The frequency of use and
 - The level of confidence required in the readings taken from the customers' process.

Calibration Points

- Calibration points can be drawn on a graph and joined together to form a calibration curve.
- This allows the user to estimate the corrections at points where a calibration value has not been measured.



UKAS Accredited Laboratory

- Our facilities conform to (BS) EN ISO/IEC 17025:2005 – ‘General requirements for the competence of testing and calibration laboratories’.
- For temperature measurement our laboratory can calibrate:
 - Liquid-in-glass thermometers i.e. both spirit and mercury
 - Dial type temperature indicators /recorders
 - Temperature sensors such as digital thermometers
- Certification is available for test temperatures between -60°C and +250°C.
- Certificates are produced with reference to the International Temperature Scale of 1990 (ITS-90).



Example of UKAS Calibration Certificate

CERTIFICATE OF CALIBRATION
ISSUED BY S.Brannan & Sons Ltd
DATE OF ISSUE 20 January 2015 Certificate Number 07792

Brannan Thermometers & Gauges
Telephone: +44(0)1306 816600
Fax: +44(0)1306 816623
E-mail: sales@brannan.co.uk

Registered No. 290512 (PSGLANI)

Client: S. Brannan & Sons Ltd
Address: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QE
Clients Order No: N/A
Apparatus Tested: Mercury In Glass Thermometer
Type / Specification: BS 1704 B/75
Range & Division Frequency or Resolution: -35/30°C 0.5°C
Calibration Immersion: 75mm
Serial No: 330115

CALIBRATION CONDITIONS
Date Instrument Received: 16 January 2015
Date Calibration/Test Completed: 20 January 2015
Laboratory Temperature: 20°C±.5°C
Laboratory Humidity: 20% to 85% (RH)

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation System. It provides evidence of measurement to the SI system of units and is the only of its kind issued by the National Physical Laboratory. NPL is a UKAS recognised national metrology institute. This certificate may not be reproduced other than in full except with the prior written approval of the issuing laboratory.

CERTIFICATE OF CALIBRATION
UKAS ACCREDITED CALIBRATION LABORATORY No: 0582

Certificate Number: 07792
PAGE 2 OF 2

The thermometer was calibrated in controlled temperature environments together with two reference standard instruments having known and traceable values of uncertainty. The comparison method of calibration was used.

The thermometer was read using a vision system with the stem being lightly tapped or vibrated prior to each reading.

The thermometer has not been tested, to ensure it is in compliance to the specified standard.

For partial immersion thermometers emergent column temperatures were determined by thermocouple probes spaced at regular intervals over the length of the emergent column.

Calibration Temperature °C	Thermometer Reading	Emergent Column Temperature °C	Measurement Uncertainty +/- °C
-24.97	-24.75	16.6	0.06
-20.00	-19.70	17.2	0.06
0.00	0.20	20.9	0.11
20.01	20.05	24.9	0.17
	END		

The uncertainty associated with reading the test thermometer does not exceed the Measurement Uncertainty plus one tenth of a division.
* This point calibrated at partial immersion and corrected for total immersion.

The temperature scale in use is the International Temperature Scale of 1990 (ITS - 90). If the emergent column temperature of the thermometer in use is different to that when it was calibrated then the following correction "C" should be made :-

Column correction: C = NT-TK
Where C= Required correction
N= Number of scale degrees emergent
T= Mean emergent column temperature when calibrated
T= Mean emergent column temperature when used

K= 0.000 16 For mercury thermometers scaled in °C
K= 0.000 09 For mercury thermometers scaled in °F
K= 0.000 90 For spirit thermometers scaled in °C
K= 0.000 50 For spirit thermometers scaled in °F

The correction should be added or subtracted depending upon the relative values of T or L.

APPROVED SIGNATORY: J. Henderson

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.



Safe Packaging Service

To complement our calibration services, we are able to supply packaging for use when sending your thermometer to us to help reduce the risk of breakage during transit. The pack comprises of a box with a blank calibration label, a telescopic plastic tube and an inner polystyrene tray with a 'cut-out' for robust protection of the thermometer.

Also included is a "Fragile" label for use on your own outer packaging. The thermometer packaging is then used to return the calibrated instrument to the customer, together with the calibration certificate, after our laboratory personnel have completed the details on the box label with the relevant identification information. Two sizes of packaging are available, to cover different thermometer lengths. Please contact our Sales Team for further details.



Product numbers:

- Thermometer length under 305mm - **40/900/0**
- Thermometer length over 350 to 405mm - **40/901/0**

Additional Calibration Services

- In addition to our UKAS Accredited Calibration Laboratory, we have the capability of providing calibration certificates traceable to National Standards for many other instruments, including the following:

Pressure

- We offer calibrations for pressure gauges ranging from 0 to 600 BAR
- We use a hydraulic dead weight tester traceable to UKAS standards

Air Temperature

- We offer temperature in air measurements traceable to UKAS using a thermal chamber
- We offer calibrations between -40°C & 180°C.
- We use ITS-90 as the reference scale when carrying out temperature calibration work.

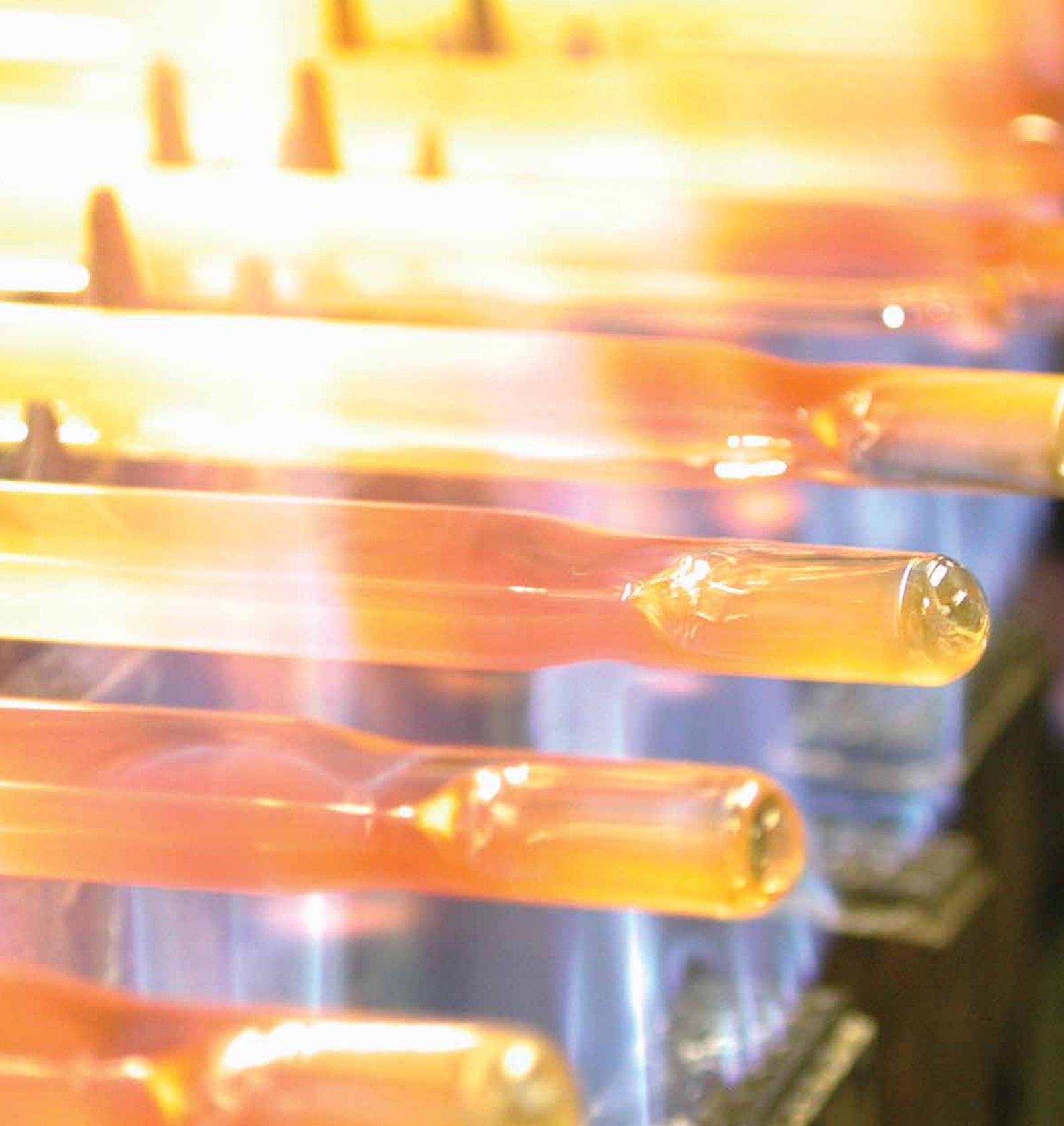
Hydrometers

We can offer calibration certificates for all the hydrometers we supply which are traceable to National Standards.

All of our prices are competitive and quantity discounts apply.

Please contact us for further details on the above or to discuss other instruments suitable for Certification.





Laboratory Thermometers

LO-*tox*™
ECO-*therm*™
General Purpose
Teflon Coated
breaksafe™
initial brand™

Educational Products
SAMA
BS 1704
BS 593
ASTM & IP
Protective Cases



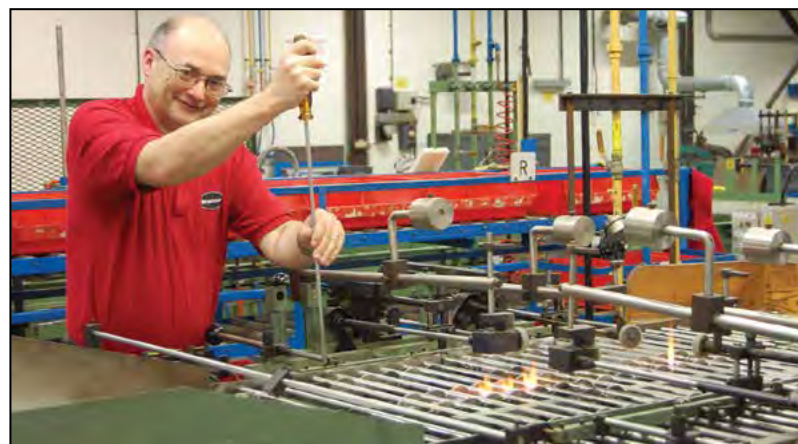
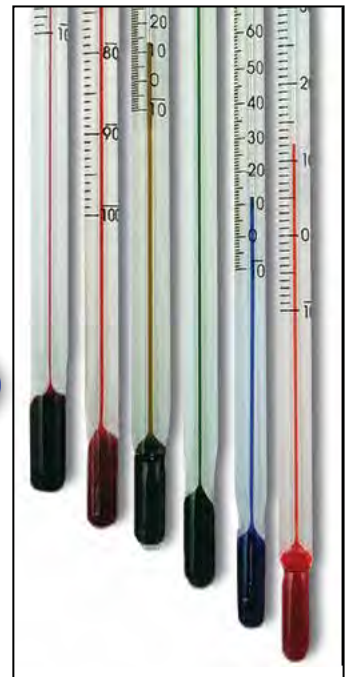
As one of the premier manufacturers of liquid-in-glass thermometers, **Brannan** is leading the way in innovation of new fillings to cover a wide range of temperatures providing alternatives to traditional, and now prohibited, mercury thermometers.

- **Highly resistant to aggressive chemicals**

All of our thermometers have a clear scale, fired directly into the glass

- **Wide choice of thermometer fillings**

- **LO-tox™** Laboratory Thermometers - Blue or brown filling
- **ECO-therm™** Laboratory Thermometers - Green filling
- General Purpose **Spirit** Laboratory Thermometers - Red or blue fillings



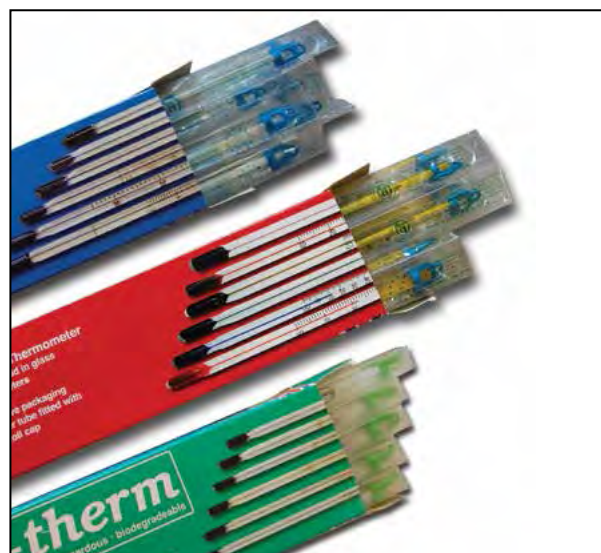
- **Made in England**

Over 100 years of manufacturing experience at our factory in the North of England.



- **Non-roll device fitted**

All thermometers fitted with either **Brannan** non-roll end cap which has a ring to allow the thermometer to be suspended, or a tri-top shaped thermometer end.



- **Individually packaged**

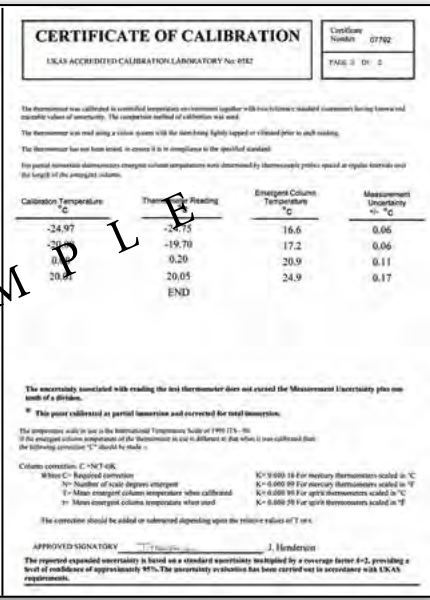
The thermometers are supplied boxed in pack of 10 in protective PVC packaging as standard but are also available in individual, resealable, telescopic tubes.

ECO-therm™ thermometers are supplied in telescopic tubes only.



UKAS Calibration Certification

All our laboratory thermometers can be supplied with full UKAS Certification, at an additional charge, on request. Our facilities conform to (BS) EN ISO/IEC 17025:2005 – ‘General requirements for the competence of testing and calibration laboratories’. For temperature measurement our laboratory can calibrate all types of liquid-in-glass thermometers i.e. both spirit and mercury. Certification is available for test temperatures between -60°C and +250°C. See Calibration section of this catalogue, or contact our Sales Team for more details.



Number of Points Calibrated	Product Number
1 point calibration	49/501/0
2 point calibration	49/502/0
3 point calibration	49/503/0
4 point calibration	49/504/0
5 point calibration	49/505/0
6 point calibration	49/506/0
7 point calibration	49/507/0
8 point calibration	49/508/0
9 point calibration	49/509/0
10 point calibration	49/510/0
11 point calibration	49/511/0
12 point calibration	49/512/0
13 point calibration	49/513/0

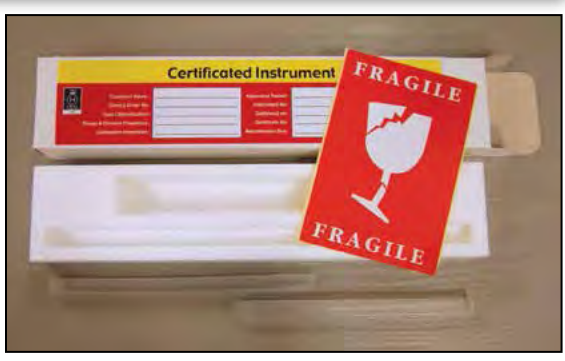
Statement of Conformity

Statement of Conformity available on request.
Product Number: 49/080/0



Safe Packaging Service

To complement our calibration services, we are able to supply packaging for use when sending your thermometer to us to help reduce the risk of breakage during transit. The pack comprises of a box with a blank calibration label, a telescopic plastic tube and an inner polystyrene tray with a ‘cut-out’ for robust protection of the thermometer. Also included is a “Fragile” label for use on your own outer packaging. The thermometer packaging is then used to return the calibrated instrument to the customer, together with the calibration certificate, after our laboratory personnel have completed the details on the box label with the relevant identification information. Two sizes of packaging are available, to cover different thermometer lengths. Please contact our Sales Team for further details of prices, etc.



Product numbers:
 Thermometer length under 305mm - **40/900/0**
 Thermometer length over 350 to 405mm - **40/901/0**

The European Commission's objective of reducing the circulation of mercury in society by cutting supply and demand meant that from 10th April 2014 it became illegal throughout the EU to manufacture or supply mercury glass tube thermometers, except specification thermometers.

S.Brannan & Sons is leading the way in developing alternative fillings and styles to replace mercury thermometers. All laboratory thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity on request for an additional charge.

All these thermometers are made in the UK and are fitted with a **Brannan** non-roll end cap which has a ring to allow the thermometer to be suspended and are packed boxed in ten thermometers, either in PVC packaging or individual telescopic tubes.

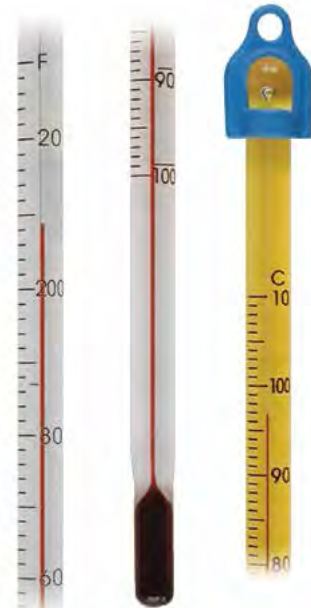


LO-tox™ Laboratory Thermometers



LO-tox™

Spirit Laboratory Thermometers



ECO-therm™ Laboratory Thermometers



New

Brannan LO-tox™ Laboratory Thermometers use a specially selected organic filling, normally coloured blue although certain ranges have a brown filling. Stable over a wide temperature span and providing the lowest practical level of hazard, the quality and legibility of these thermometers provide an ideal alternative to mercury.

These **Spirit** Laboratory Thermometers use filling materials covering temperatures down to -200°C. Normal fillings are coloured red on white back glass but some are also available on yellow back glass. Also available with blue spirit on white back glass. The -200°C range thermometers are filled with the colourless liquid.



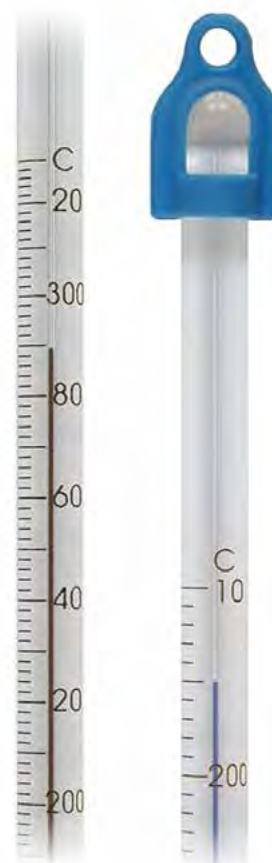
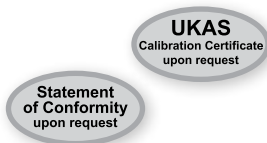
The **ECO-therm™** Laboratory Thermometers are filled with food safe oils, recently developed by **Brannan's** own product development team. Using a green coloured liquid, this thermometer covers the most popular temperature ranges at present, although it is intended to add further ranges in the future.



LO-tox™ is an organic filling specially chosen to achieve a wide temperature span and provide the lowest practical levels of hazard. The quality and legibility make these an ideal substitute for mercury thermometers. Each **LO-tox™** thermometer is fitted with a **Brannan** non-roll end cap which has a ring to allow the thermometer to be suspended. The thermometers are supplied as standard in protective PVC packaging but are also available in individual, resealable, telescopic tubes. Both styles of packaging are boxed in pack of 10 thermometers.

These thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity on request, for an additional charge.

The tables below show our standard thermometers, however other ranges are available on request.



Range °C only	Division	Length	LO-tox Colour	76mm Immersion		Total Immersion	
				Accuracy	Product No	Accuracy	Product No
-10 to +50°C	1.0°C	155mm	Blue	-	-	+/-1.0°C @ 35°C	44/850/7
-10 to +110°C	1.0°C	155mm	Blue	-	-	+/-1.5°C @ 35°C	44/830/7
-35 to +50°C	1.0°C	305mm	Blue	+/-1.0°C @ 35°C	44/801/8	+/-1.0°C @ 35°C	44/809/8
-10 to +50°C	0.5°C	305mm	Blue	+/-0.5°C @ 35°C	44/800/8	+/-0.5°C @ 35°C	44/808/8
-20 to +110°C	1.0°C	305mm	Blue	+/-1.0°C @ 35°C	44/802/8	+/-1.0°C @ 35°C	44/810/8
-20 to +110°C	0.5°C	305mm	Blue	+/-1.0°C @ 35°C	44/802/9	+/-1.0°C @ 35°C	44/810/9
-20 to +150°C	1.0°C	305mm	Blue	+/-1.0°C @ 35°C	44/803/8	+/-1.0°C @ 35°C	44/811/8
-10 to +210°C	1.0°C	405mm	Blue	+/-2.0°C @ 90°C	44/805/8	+/-2.0°C @ 90°C	44/812/8
-10 to +260°C	1.0°C	405mm	Blue	+/-2.0°C @ 90°C	44/804/8	+/-2.0°C @ 90°C	44/813/8
-10 to +300°C	1.0°C	305mm	Brown	+/-2.0°C @ 90°C	44/815/0	+/-2.0°C @ 90°C	44/818/0
-10 to +330°C	2.0°C	305mm	Brown	+/-2.0°C @ 90°C	44/814/0	+/-2.0°C @ 90°C	44/827/0
-10 to +360°C	2.0°C	305mm	Brown	+/-2.0°C @ 90°C	44/826/8	+/-2.0°C @ 90°C	44/819/0
-1 to +51°C	0.1°C	405mm	Blue	+/-1.0°C @ 35°C	44/820/0	+/-0.5°C @ 35°C	44/821/0
-1 to +51°C	0.2°C	405mm	Blue	+/-1.0°C @ 35°C	44/822/0	+/-0.5°C @ 35°C	44/823/0
-1 to +101°C	0.2°C	405mm	Blue	+/-1.0°C @ 35°C	44/824/0	+/-0.5°C @ 35°C	44/825/0

Range °F only	Division	Length	LO-tox Colour	76mm Immersion		Total Immersion	
				Accuracy	Product No	Accuracy	Product No
-30 to +120°F	1.0°F	305mm	Blue	+/-0.2°F @ 95°F	44/801/5	+/-0.2°F @ 95°F	44/809/7
0 to +230°F	2.0°F	305mm	Blue	+/-0.2°F @ 95°F	44/802/7	+/-0.2°F @ 95°F	44/816/7
0 to +300°F	2.0°F	305mm	Blue	+/-0.2°F @ 95°F	44/803/7	+/-0.2°F @ 95°F	44/817/7
0 to +500°F	2.0°F	405mm	Blue	+/-0.2°F @ 95°F	44/804/7	+/-0.2°F @ 95°F	-

Range °C&F	Division	Length	LO-tox Colour	76mm Immersion		Total Immersion	
				Accuracy	Product No	Accuracy	Product No
-20 to +110°C&F	1.0°C&F	305mm	Blue	+/-1.0°C @ 35°C	44/802/5	-	-
-20 to +150°C&F	1.0°C&F	305mm	Blue	+/-1.0°C @ 35°C	44/803/5	-	-
-0 to +260°C&F	1.0°C&F	405mm	Blue	+/-2.0°C @ 90°C	44/804/5	-	-

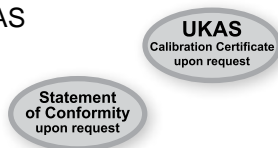
S.Brannan & Sons is leading the way in developing alternative fillings and styles to replace mercury thermometers.

The **ECO-therm™** Thermometers, filled with food safe oils, have been recently developed by **Brannan's** own product development team. The quality and resolution make these an ideal substitute for general purpose mercury thermometers. The 305mm thermometers are presently available to cover the most popular temperature ranges, although it is intended to add further ranges in future.

All thermometers are made in the UK and are fitted with a **Brannan** non-roll end cap which has a ring to allow the thermometer to be suspended. The thermometers are supplied as standard in protective individual, resealable, telescopic tubes. Packed in box of 10 thermometers. All laboratory thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity on request.

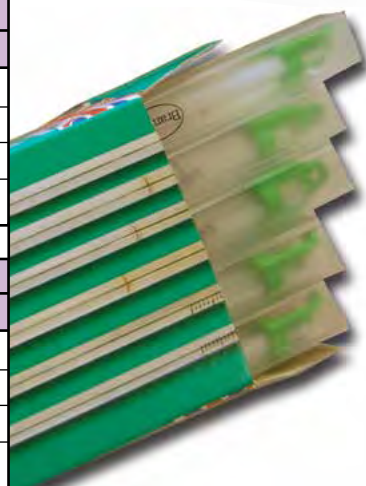


- **Introduced by our own product development team**
- **Environmentally safe**
- **Non-toxic**
- **Non-hazardous**
- **Biodegradeable**
- **Made in England**
- **Supplied in individual plastic tube**



Range °C only	Division	Length	Filling Colour	76mm Immersion	
				Accuracy	Product No
-35 to +50°C	1.0°C	305mm	Green	+/-1.0°C @ 35°C	46/700/0
-10 to +50°C	0.5°C	305mm	Green	+/-1.0°C @ 35°C	46/701/0
-10 to +110°C	1.0°C	305mm	Green	+/-1.0°C @ 35°C	46/703/0
-10 to +150°C	1.0°C	305mm	Green	+/-1.0°C @ 35°C	46/706/0

Range °C only	Division	Length	Filling Colour	Total Immersion	
				Accuracy	Product No
-35 to +50°C	1.0°C	305mm	Green	+/-1.0°C @ 35°C	46/700/1
-10 to +50°C	0.5°C	305mm	Green	+/-1.0°C @ 35°C	46/701/1
-10 to +110°C	1.0°C	305mm	Green	+/-1.0°C @ 35°C	46/703/1
-10 to +150°C	1.0°C	305mm	Green	+/-1.0°C @ 35°C	46/706/1



General Purpose Spirit Filled Lab Thermometers



Laboratory Thermometers



These thermometers use specially selected filling material covering temperatures down to -200°C. Normal fillings are coloured red on a white back glass but alternative colours are available as shown. The -200°C range thermometers are filled with a colourless liquid.

Thermometers normally supplied with a non-roll end cap which has a ring to allow the thermometer to be suspended. The thermometers are supplied as standard in protective PVC packaging but are also available in individual, resealable, telescopic tubes. Both styles of packaging are boxed in pack of 10 thermometers.

All laboratory thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity on request.

The tables below show our standard thermometers, however other ranges are available on request.



Range °C only	Division	Length	Filling Colour	76mm Immersion		Total Immersion	
				Accuracy	Product No	Accuracy	Product No
-10 to +150°C	1.0°C	150mm	Red	-	-	+/-1.0°C @ 35°C	44/450/0
-10 to +110°C	1.0°C	150mm	Red	-	-	+/-1.5°C @ 35°C	44/430/0
-10 to +110°C	1.0°C	150mm	Red	-	-	+/-1.5°C @ 35°C	44/430/5#
-10 to +10°C	1.0°C	150mm	Blue	-	-	+/-1.5°C @ 35°C	44/430/7
-10 to +60°C	1.0°C	205mm	Red	+/-1.5°C @ 35°C	44/105/1	+/-1.5°C @ 35°C	44/105/2
-10 to +110°C	1.0°C	205mm	Red	+/-1.5°C @ 35°C	44/423/0	+/-1.5°C @ 35°C	44/100/4
-10 to +150°C	1.0°C	205mm	Red	+/-2.0°C @ 35°C	44/441/0	+/-2.0°C @ 35°C	44/442/0
-10 to +110°C	1.0°C	205mm	Green	+/-1.5°C @ 35°C	44/423/5#	-	-
-10 to +110°C	1.0°C	250mm	Red	+/-1.0°C @ 35°C	44/417/0	+/-1.0°C @ 35°C	44/107/1
-10 to +150°C	1.0°C	250mm	Red	+/-1.0°C @ 35°C	44/105/5	+/-1.0°C @ 35°C	44/100/5
-200 to +30°C	1.0°C	305mm	Clear	-	-	+/-2.0°C @ 0°C	46/440/0
-100 to +50°C	1.0°C	305mm	Red	+/-2.0°C @ 0°C	46/457/0	+/-2.0°C @ 0°C	46/456/0
-80 to +30°C	1.0°C	305mm	Red	-	-	+/-2.0°C @ 0°C	46/438/0
-50 to +50°C	1.0°C	305mm	Clear	+/-1.0°C @ 0°C	46/540/0	+/-1.5°C @ 35°C	46/539/0
-10 to +50°C	0.5°C	305mm	Red	+/-0.5°C @ 35°C	44/401/0	+/-0.5°C @ 35°C	44/401/1
-10 to +110°C	1.0°C	305mm	Red	+/-1.0°C @ 35°C	44/403/0	+/-1.0°C @ 35°C	44/010/8*
-10 to +110°C	1.0°C	305mm	Green	+/-1.0°C @ 35°C	44/403/5#	-	-
-10 to +110°C	1.0°C	305mm	Blue	+/-1.0°C @ 35°C	44/403/7	+/-1.0°C @ 35°C	44/010/7
-10 to +110°C	0.5°C	305mm	Red	+/-2.0°C @ 90°C	44/803/0	-	-
-10 to +150°C	1.0°C	305mm	Red	+/-1.0°C @ 35°C	44/406/0	+/-1.0°C @ 35°C	44/011/8*
-10 to +200°C	1.0°C	305mm	Blue	+/-2.0°C @ 90°C	44/408/0	+/-2.0°C @ 90°C	44/408/1

* Range: -20 to +110°C.

Tri-top tube, rather than non-roll cap. See page 16 of this catalogue for details of Tri-top thermometers.



The tables below shows thermometers with yellow back glass.

Range °C only	Division	Length	Filling Colour	76mm Immersion		Total Immersion	
				Accuracy	Product No	Accuracy	Product No
-20 to +110°C	1.0°C	305mm	Red	+/-1.0°C @ 35°C	44/302/8	+/-1.0°C @ 35°C	44/310/8
-20 to +150°C	1.0°C	305mm	Red	+/-1.5°C @ 35°C	44/303/8	+/-1.5°C @ 35°C	44/311/8

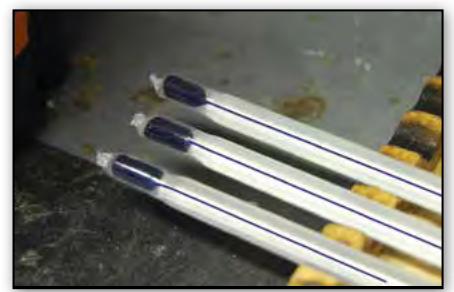
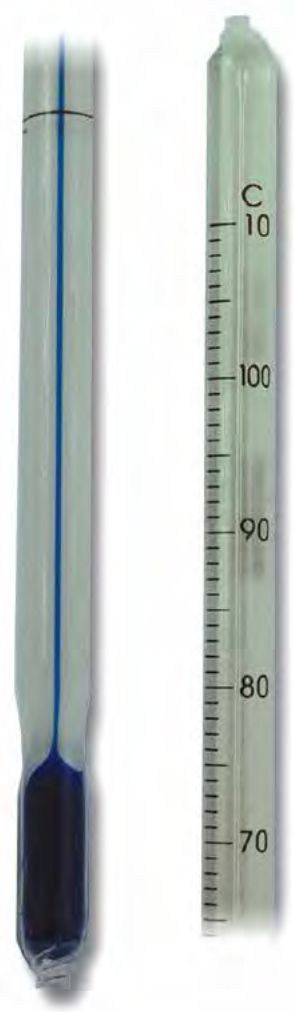
Range °C&F	Division	Length	Filling Colour	76mm Immersion		Total Immersion	
				Accuracy	Product No	Accuracy	Product No
-20 to +110°C&F	1°C/2°F	305mm	Red	+/-1.0°C @ 35°C	44/302/9	-	-
-20 to +150°C&F	1°C/2°F	305mm	Red	+/-1.5°C @ 35°C	44/303/9	-	-

In order to offer high levels of thermometer protection, we provide a Teflon* coating system which contains any glass or filling material in the event of breakages. The FEP material is completely transparent and offers resistance to virtually all chemicals and UV radiation.

Properties of Teflon* coating include:

- Virtual total chemical and solvent resistance
- Working temperature from -200 to +200°C
- Non stick surface
- Naturally non-inflammable
- Non toxic

Thermometers normally supplied with a non-roll end cap which has a ring to allow the thermometer to be suspended. They are packed in individual, resealable, telescopic tubes and are boxed in pack of 10 thermometers. All laboratory thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity on request.



* What are Fluoroplastics?

Fluoroplastics are a family of plastics based on a carbon backbone but containing fluorine instead of hydrogen as in most other plastics. The most well known is PTFE, often referred to as Teflon*. This is DuPont Co's trade mark name for PTFE and FEP resins. **Brannan** uses DuPont Co's FEP (Fluoro Ethylene Propylene) in the above process.

Range °C only	Division	Length	76mm Immersion		Total Immersion	
			Accuracy	Product No	Accuracy	Product No
White Back with Blue LO-tox™ Filling						
-10 to +110°C	1.0°C	155mm	-	-	+/-1.5°C @ 35°C	44/930/7
-20 to +110°C	1.0°C	305mm	+/-1.0°C @ 35°C	44/902/8	+/-1.0°C @ 35°C	44/910/8
-20 to +150°C	1.0°C	305mm	+/-1.0°C @ 35°C	44/903/8	+/-1.0°C @ 35°C	44/911/8
-20 to +210°C	1.0°C	405mm	+/-2.0°C @ 90°C	44/905/8	+/-1.0°C @ 35°C	44/912/8
-1 to +51°C	0.1°C	405mm	+/-1.0°C @ 35°C	44/920/0	+/-0.5°C @ 35°C	44/921/0
-1 to +51°C	0.2°C	405mm	+/-1.0°C @ 35°C	44/922/0	+/-0.5°C @ 35°C	44/923/0
-1 to +101°C	0.2°C	405mm	+/-1.0°C @ 35°C	44/924/0	+/-0.5°C @ 35°C	44/925/0
Yellow Back with Red Spirit Filling						
-20 to +110°C	1.0°C	305mm	+/-1.0°C @ 35°C	44/953/0	+/-1.0°C @ 35°C	44/953/1
-20 to +150°C	1.0°C	305mm	+/-1.5°C @ 35°C	44/956/0	+/-1.5°C @ 35°C	44/956/1



breaksafe™ PVC Coated Laboratory Thermometers



Laboratory Thermometers

The **Brannan breaksafe™** range of laboratory thermometers are encapsulated in PVC to contain any glass or filling material in the event of breakage. This offers a low cost alternative to the Teflon* coated thermometers.

breaksafe™ thermometers are normally supplied with a non-roll end cap which has a ring to allow the thermometer to be suspended. They are packed in individual, resealable, telescopic tubes (except 44/425/0 which is supplied in PVC protective packaging) and are boxed in pack of 10 thermometers.

All laboratory thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity on request.

UKAS
Calibration Certificate
upon request

Statement
of Conformity
upon request

The below photograph shows a broken laboratory thermometer with glass and spirit held safely within the **breaksafe™** sleeve.



PVC coated **initial™** Brand laboratory thermometer with green filling and tri-top end. Below photograph shows green filling safely encapsulated within PVC **breaksafe™** sleeve.



Range °C only	Division	Length	76mm Immersion		Total Immersion		
			Accuracy	Product No	Accuracy	Product No	
White Back with Blue LO-tox™ Filling							
-10 to +50°C	1.0°C	155mm	-	-	+/-1.0°C @ 35°C	44/550/7	
-10 to +110°C	1.0°C	155mm	-	-	+/-1.0°C @ 35°C	44/530/7	
-35 to +50°C	1.0°C	305mm	+/-1.0°C @ 35°C	44/501/8	+/-1.0°C @ 35°C	44/509/8	
-10 to +50°C	0.5°C	305mm	+/-0.5°C @ 35°C	44/500/8	+/-0.5°C @ 35°C	44/508/8	
-20 to +110°C	1.0°C	305mm	+/-1.0°C @ 35°C	44/502/8	+/-1.0°C @ 35°C	44/510/8	
-1 to +51°C	0.1°C	405mm	+/-1.0°C @ 35°C	44/520/0	+/-0.5°C @ 35°C	44/521/0	
-1 to +51°C	0.2°C	405mm	+/-1.0°C @ 35°C	44/522/0	+/-0.5°C @ 35°C	44/523/0	
-1 to +51°C	0.2°C	405mm	+/-1.0°C @ 35°C	44/524/0	+/-0.5°C @ 35°C	44/525/0	
Yellow Back with Red Spirit Filling							
-20 to +110°C	1.0°C	305mm	+/-1.0°C @ 35°C	44/553/0	+/-1.0°C @ 35°C	44/553/1	
PVC Coated initial™ Brand* Thermometers - Green Filling							
-10 to +110°C	1.0°C	200mm	+/-1.5°C @ 35°C	44/425/0	-	-	



For full details of our **initial™** range of thermometers, please see page 16 of this catalogue.



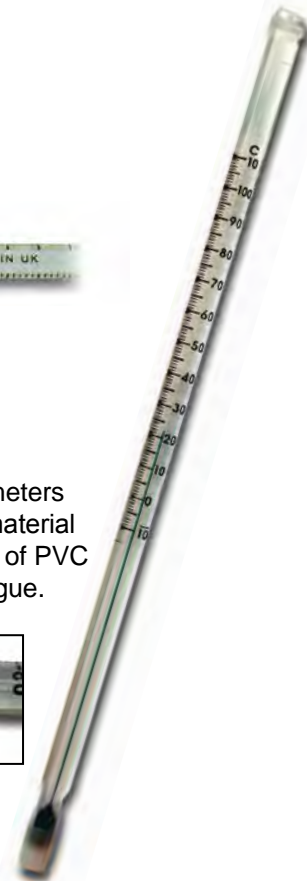
The **initial™** Brand range of laboratory thermometers offer a significant saving on our range of standard thermometers while making no compromises to the traditional **Brannan** quality and accuracy. This entry level range is now available in a choice of red, green or blue spirit filling and have Tri-top, moulded glass non-roll device to help prevent breakage.

These thermometers are printed with a clear, easy-to-read scale making them particularly suitable for student use.

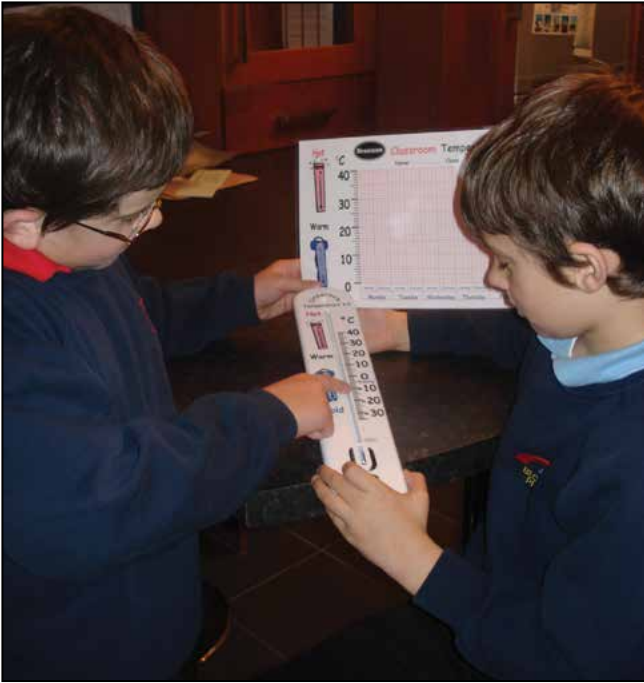
The **initial™** Brand Thermometers are supplied as standard in protective PVC packaging in pack of 10 thermometers.



The **Brannan breaksafe™** range of laboratory thermometers are encapsulated in PVC to contain any glass or filling material in the event of breakage. For details about the full range of PVC coated thermometers, please see page 15 of this catalogue.



Range °C only	Division	Length	Filling Colour	76mm Immersion		Total Immersion	
				Accuracy	Product No	Accuracy	Product No
-10 to +110°C	1.0°C	150mm	Red	-	-	+/-2.0°C @ 35°C	46/330/0
-10 to +110°C	1.0°C	150mm	Green	-	-	+/-2.0°C @ 35°C	46/330/5
-10 to +110°C	1.0°C	150mm	Blue	-	-	+/-2.0°C @ 35°C	46/330/7
-10 to +110°C	1.0°C	200mm	Red	+/-1.5°C @ 35°C	46/323/0	-	-
-10 to +110°C	1.0°C	200mm	Green	+/-1.5°C @ 35°C	46/323/5	-	-
-10 to +110°C	1.0°C	200mm	Blue	+/-1.5°C @ 35°C	46/323/7	-	-
-10 to +50°C	0.5°C	300mm	Red	+/-0.5°C @ 35°C	46/103/0	-	-
-10 to +50°C	0.5°C	300mm	Blue	+/-0.5°C @ 35°C	46/103/7	-	-
-10 to +110°C	1.0°C	300mm	Red	+/-1.5°C @ 35°C	46/303/0	-	-
-10 to +110°C	1.0°C	300mm	Green	+/-1.5°C @ 35°C	46/303/5	-	-
-10 to +110°C	1.0°C	300mm	Blue	+/-1.5°C @ 35°C	46/303/7	-	-
-10 to +150°C	1.0°C	300mm	Red	+/-1.0°C @ 35°C	46/503/0	-	-
-10 to +150°C	1.0°C	300mm	Blue	+/-1.0°C @ 35°C	46/503/7	-	-
PVC Coated initial™ Brand* Thermometers - Green Filling							
-10 to +110°C	1.0°C	200mm	Green	+/-1.5°C @ 35°C	44/425/0	-	-
Uncalibrated Thermometers (for student calibration)							
Covers Range -10 to +110°C	305mm	Red	-	46/603/0	-	-	
	305mm	Green	-	46/603/5	-	-	
	305mm	Blue	-	46/603/7	-	-	



The following kits have been developed for use in the classroom. They come complete with teaching notes and photocopiable worksheets. These kits assist teachers to operate within the National Curriculum.



Classroom Kit

Blue plastic tray which fits into standard classroom storage system encloses a variety of laboratory thermometers and a set of 'Classroom' notes.

- 8 x 150mm **initial™** brand green filled thermometers
- 7 x 300mm **initial™** brand green filled thermometers
- 1 x 300mm uncalibrated green filled thermometers

Dimensions: 334 x 232 x 50mm

25/700/0



Investigative Science Kit

Blue plastic tray enclosing a variety of instruments and a set of 'Investigative Science' notes.

- 4 x 150mm **initial™** brand green filled thermometers
- 4 x 200mm **initial™** brand green filled thermometers
- 2 x small classroom thermometers
- 1 x dial type maximum/minimum thermometer
- 1 x soil temperature thermometer
- 1 x forehead strip clinical thermometer

Dimensions: 334 x 232 x 50mm

25/701/0

Classroom Wall Kit

Colourful 380mm plastic wall thermometer and chart for recording temperatures.

Dimensions: 365 x 287 x 10mm

Thermometer and Chart: 25/702/0

Thermometer only: 25/703/0

Chart only: 25/704/0



Classroom Wall Thermometer

300mm diameter plastic wall thermometer with easy to read temperature scale and rainbow design.

Range: -20 to +50°C&F

Dimensions: 300 x 300 x 40mm

Thermometer: 30/120/5



The low temperature SAMA thermometers have always been specified with organic filling. Included below are additional 'SAMA Type' spirit filled thermometers to satisfy the preference for non-mercury fillings. The thermometers are supplied as standard in protective PVC packaging but are also available in individual, resealable, telescopic tubes. Both styles of packaging are boxed in packs of 10 thermometers and can be supplied with a UKAS Calibration Certificate or Statement of Conformity on request.



Range °C only	Division	Length	Immersion	Accuracy	*SAMA Number	Product Number
-100 to +50°C	1.0°C	305mm	Total	+/-2.0°C @ 0°C	CT55	46/456/0
-50 to +50°C	1.0°C	305mm	Total	+/-1.5°C @ 0°C	CT60	46/539/0
-35 to +50°C	1.0°C	305mm	Total	+/-1.5°C @ 35°C	CT10	44/009/8
-20 to +110°C	1.0°C	305mm	Total	+/-1.0°C @ 35°C	CT15	44/010/8
-20 to +150°C	1.0°C	305mm	Total	+/-1.0°C @ 35°C	CT20	44/011/8
-100 to +50°C	1.0°C	305mm	76mm	+/-2.0°C @ 0°C	-	46/457/0
-50 to +50°C	1.0°C	305mm	76mm	+/-1.0°C @ 0°C	-	46/540/0
-35 to +50°C	1.0°C	305mm	76mm	+/-1.0°C @ 0°C	CP10	44/001/8
-20 to +110°C	1.0°C	305mm	76mm	+/-1.0°C @ 35°C	CP15	44/002/8
-20 to +150°C	1.0°C	305mm	76mm	+/-1.0°C @ 35°C	CP20	44/003/8
-10 to +260°C	1.0°C	405mm	76mm	+/-2.0°C @ 90°C	-	44/804/8*

Range °F only	Division	Length	Immersion	Accuracy	*SAMA Number	Product Number
-30 to +120°F	1.0°F	305mm	Total	+/-1.0°F @ 95°F	FT10	44/009/7
0 to +230°F	2.0°F	305mm	Total	+/-2.0°F @ 95°F	FT15	44/016/7
0 to +300°F	2.0°F	305mm	Total	+/-2.0°F @ 95°F	FT20	44/017/7
-30 to +120°F	1.0°F	305mm	76mm	+/-2.0°F @ 32°F	FP10	44/001/7
0 to +230°F	2.0°F	305mm	76mm	+/-2.0°F @ 95°F	FP15	44/002/7
0 to +300°F	2.0°F	305mm	76mm	+/-2.0°F @ 95°F	FP20	44/003/7
+20 to +500°F	2.0°F	405mm	76mm	+/-4.0°F @ 195°F	-	44/804/7*

Range °C only	Division	Length	Immersion	Accuracy	*SAMA Number	Product Number
-20 to +110°C 0 to +230°F	1.0°C 2.0°F	305mm	Total	+/-1.0°C @ 35°C	-	44/010/9
-20 to +150°C 0 to +200°F	1.0°C 2.0°F	305mm	Total	+/-1.0°C @ 35°C	-	44/011/9
-10 to +260°C +20 to +500°F	1.0°C 2.0°F	405mm	Total	+/-2.0°C @ 90°C	-	44/012/9
-20 to +110°C 0 to +230°F	1.0°C 2.0°F	305mm	76mm	+/-2.0°C @ 90°C	CFP15	44/002/9
-20 to +150°C 0 to +300°F	1.0°C 2.0°F	305mm	76mm	+/-2.0°C @ 90°C	CFP20	44/003/9
-10 to +260°C +20 to +500°F	1.0°C 2.0°F	405mm	76mm	+/-2.0°C @ 90°C	-	44/022/3

* Other than CT55 and CT60, the SAMA numbers used are the codes for the equivalent mercury thermometers and are for reference only.

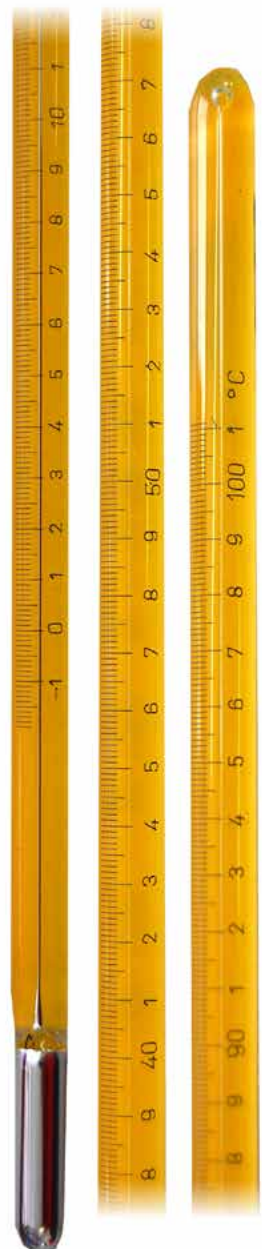
BS 1704 : 1985 General Purpose Lab Thermometers



BS 1704 : 1985 is identical to ISO 1770 - 1981 (revised in 1983). The specification includes standard thermometers (designation A to H) and thermometers of higher accuracy (designation J to W). Thermometers with ranges below -35°C are red spirit filled. All other ranges are mercury filled and are made of yellow back glass, wherever possible. The designation reference for partial (75mm) immersion types is suffixed "75". The thermometers are supplied in individual, resealable, telescopic tubes. These thermometers can be supplied with a UKAS Calibration Certificate or Statement of Conformity on request.



Laboratory Thermometers



Designation		Range °C only	Division	Length	Product Number	
Total	Partial				76mm Imm	Total Imm
A	-	-100 to +30°C	1.0°C	305mm	50/121/0*	-
B	B/75	-35 to +30°C	0.5°C	305mm	50/122/0	50/142/0
C	C/75	-5 to +60°C	0.5°C	305mm	50/123/0	50/143/0
D	D/75	-5 to +105°C	1.0°C	305mm	50/124/0	50/144/0
E	E/75	-10 to +160°C	1.0°C	305mm	50/125/0	50/145/0
F	F/75	-10 to +250°C	1.0°C	305mm	50/126/0	50/146/0
G	G/75	-10 to +360°C	2.0°C	305mm	50/127/0	50/147/0
H	H/75	-10 to +500°C	5.0°C	305mm	50/128/0	50/148/0
Thermometers of Higher Accuracy						
J	-	-100 to +50°C*	1.0°C	305mm	50/129/0*	-
K	-	-50 to +50°C*	1.0°C	305mm	50/130/0*	-
P	P/75	-35 to +50°C	1.0°C	305mm	50/131/0	50/151/0
R	R/75	-20 to +110°C	1.0°C	305mm	50/132/0	50/152/0
S	S/75	-20 to +150°C	1.0°C	305mm	50/133/0	50/153/0
T	T/75	-10 to +260°C	1.0°C	405mm	50/134/0	50/154/0
V	V/75	-10 to +400°C	2.0°C	405mm	50/135/0	50/155/0
W	W/75	-10 to +500°C	2.0°C	405mm	50/136/0	50/156/0
Fractional Degree Thermometers						
L	L/75	-1 to +51°C	0.1°C	460mm	50/137/0	50/157/0
M	M/75	-1 to +101°C	0.1°C	610mm	50/138/0	50/158/0
N	N/75	-1 to +201°C	0.2°C	610mm	50/139/0	50/159/0

* Red spirit filled

UKAS Calibration Certification

All our laboratory thermometers can be supplied with full UKAS Certification on request. Our facilities conform to (BS) EN ISO/IEC 17025:2005 – 'General requirements for the competence of testing and calibration laboratories'. For temperature measurement our laboratory can calibrate all types of liquid-in-glass thermometers i.e. both spirit and mercury. Certification is available for test temperatures between -60°C and +250°C. See Calibration section of this catalogue, or contact our Sales Team for more details.



The thermometers covered by this Standard as listed below provide a higher accuracy than the BS 1704 : 1985 (150 1770-1981) on the previous page. We have only included Celsius thermometers to the BS 593 specification. The thermometers are supplied as standard in yellow back glass wherever possible and have a mercury filling.

Instruments whose range does not include 0°C are specified to have an auxiliary "ice point" scale. The thermometers are supplied in individual, resealable, telescopic tubes and can be supplied with a UKAS Calibration Certificate or Statement of Conformity on request.



Designation	Range °C only	Division	Length	Immersion	Product Number
A 10°C/Total	-30 to +10°C	0.1°C	405mm	Total	51/059/5
A 20°C/Total	-20 to +20°C	0.1°C	405mm	Total	51/060/0
A 40°C/Total	0 to +40°C	0.1°C	405mm	Total	51/061/0
A 70°C/Total	+40 to +70°C	0.1°C	405mm	Total	51/062/0
A 100°C/Total	+70 to +100°C	0.1°C	405mm	Total	51/063/0
A 130°C/Total	+100 to +130°C	0.1°C	405mm	Total	51/064/0
A 160°C/Total	+130 to +160°C	0.1°C	405mm	Total	51/065/0
B 60°C/Total	-20 to +60°C	0.2°C	405mm	Total	51/066/0
B 110°C/Total	+50 to +110°C	0.2°C	405mm	Total	51/067/0
B 160°C/Total	+100 to +160°C	0.2°C	405mm	Total	51/068/0
B 210°C/Total	+150 to +210°C	0.2°C	405mm	Total	51/069/0
B 260°C/Total	+200 to +260°C	0.2°C	405mm	Total	51/070/0
A 10°C/100	-30 to +10°C	0.1°C	405mm	100mm	51/001/0
A 20°C/100	-20 to +20°C	0.1°C	405mm	100mm	51/002/0
A 40°C/100	0 to +40°C	0.1°C	405mm	100mm	51/003/0
A 70°C/100	+40 to +70°C	0.1°C	405mm	100mm	51/004/0
A 100°C/100	+70 to +100°C	0.1°C	405mm	100mm	51/005/0
A 130°C/100	+100 to +130°C	0.1°C	405mm	100mm	51/006/0
A 160°C/100	+130 to +160°C	0.1°C	405mm	100mm	51/007/0
B 60°C/100	-20 to +60°C	0.2°C	405mm	100mm	51/008/0
B 110°C/100	+50 to +110°C	0.2°C	405mm	100mm	51/009/0
B 160°C/100	+100 to +160°C	0.2°C	405mm	100mm	51/010/0
B 210°C/100	+150 to +210°C	0.2°C	405mm	100mm	51/011/0
B 260°C/100	+200 to +260°C	0.2°C	405mm	100mm	51/012/0

UKAS Calibration Certification

All our laboratory thermometers can be supplied with full UKAS Certification on request. Our facilities conform to (BS) EN ISO/IEC 17025:2005 – 'General requirements for the competence of testing and calibration laboratories'. For temperature measurement our laboratory can calibrate all types of liquid-in-glass thermometers i.e. both spirit and mercury. Certification is available for test temperatures between -60°C and +250°C. See Calibration section of this catalogue, or contact our Sales Team for more details.

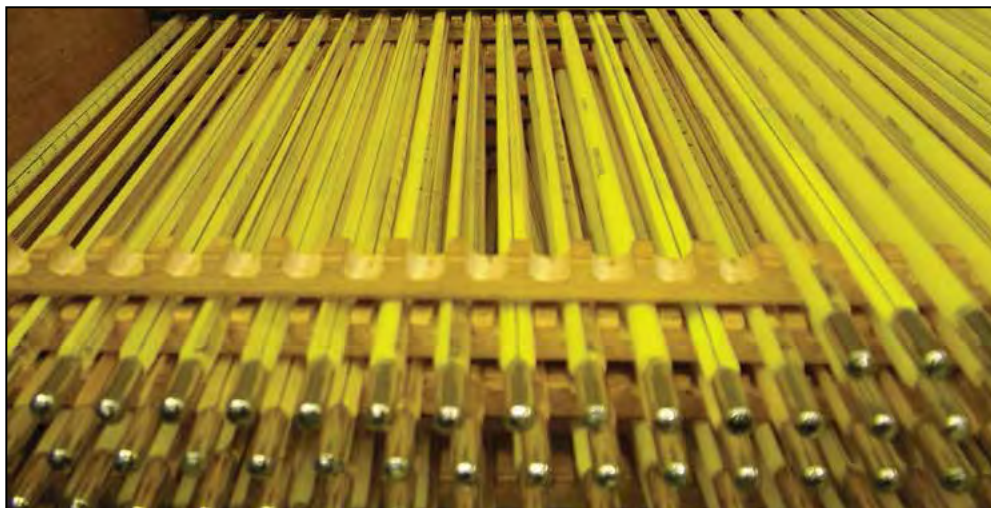


These products with designation 'F' are identical to certain IP (BS:2000) and ASTM specification and thermometers are marked accordingly. All these products are supplied in yellow back glass wherever possible and have a mercury filling.

The thermometers are supplied in individual, resealable, telescopic tubes and can be supplied with a UKAS Calibration Certificate or Statement of Conformity on request.



Designation	IP Number	ASTM Equiv.	Range °C only	Division	Max Length	Immersion	Product Number
F 50°C/100	77C	37C	-2 to +52°C	0.2°C	400	100mm	58/077/2
F 75°C/100	78C	38C	+24 to +78°C	0.2°C	400	100mm	58/078/2
F 100°C/100	79C	39C	+48 to +102°C	0.2°C	400	100mm	58/079/2
F 125°C/100	80C	40C	+72 to +126°C	0.2°C	400	100mm	58/080/2
F 150°C/100	81C	41C	+98 to +152°C	0.2°C	400	100mm	58/081/2
F 175°C/100	83C	102C	+123 to +177°C	0.2°C	400	100mm	58/083/2
F 200°C/100	84C	103C	+148 to +202°C	0.2°C	400	100mm	58/084/2
F 225°C/100	85C	104C	+173 to +227°C	0.2°C	400	100mm	58/085/2
F 250°C/100	86C	105C	+198 to +252°C	0.2°C	400	100mm	58/086/2
F 275°C/100	87C	106C	+223 to +277°C	0.2°C	400	100mm	58/087/2
F 300°C/100	88C	107C	+248 to +302°C	0.2°C	400	100mm	58/088/2
F 255°C/100	82C	42C	+95 to +255°C	0.5°C	400	100mm	58/082/2
F 150°C/76	-	1C	-20 to +150°C	1.0°C	327	76mm	59/001/2
F 300°C/76	62C	2C	-5 to +300°C	1.0°C	395	76mm	58/062/2
F 400°C/76	73C	3C	-5 to +400°C	1.0°C	420	76mm	58/073/2



Safe Packaging Service

To complement our calibration services, we are able to supply packaging for use when sending your thermometer to us to help reduce the risk of breakage during transit. The pack comprises of a box with a blank calibration label, a telescopic plastic tube and an inner polystyrene tray with a 'cut-out' for robust protection of the thermometer.

Also included is a "Fragile" label for use on your own outer packaging. The thermometer packaging is then used to return the calibrated instrument to the customer, together with the calibration certificate, after our laboratory personnel have completed the details on the box label with the relevant identification information.

Two sizes of packaging are available, to cover different thermometer lengths. Please contact our Sales Team for further details.

Product numbers:

Thermometer length under 305mm - 40/900/0

Thermometer length over 350 to 405mm - 40/901/0



New

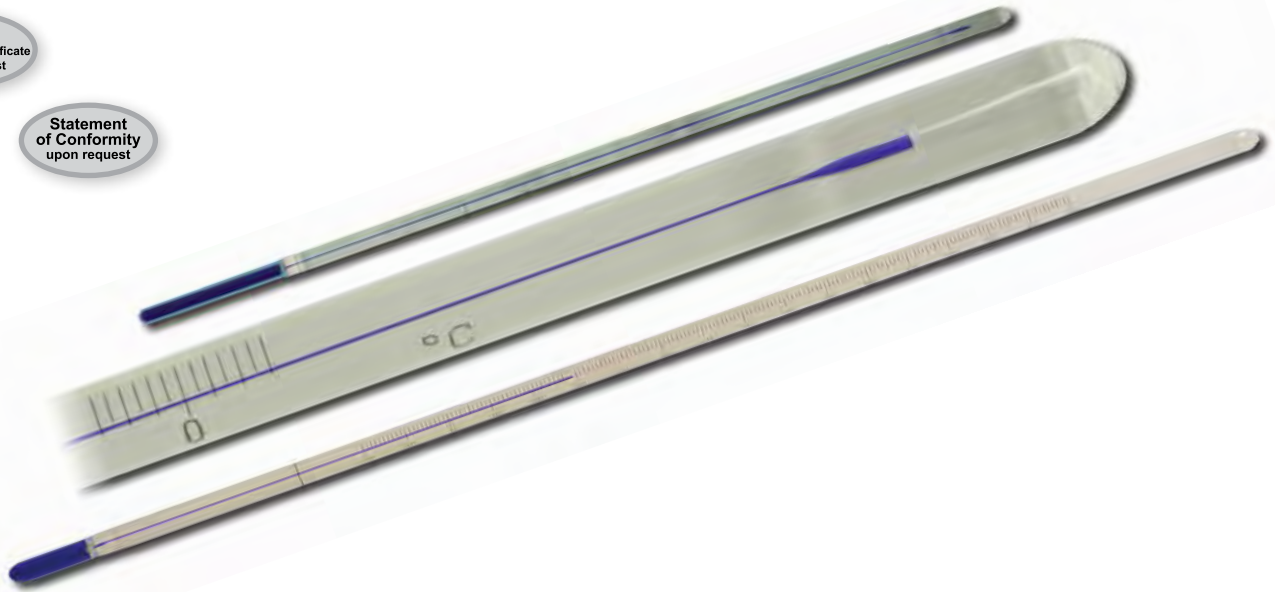
The following thermometers have been developed as blue spirit filled alternatives to the standard mercury filled ASTM thermometers (please see Standard ASTMs listed on pages 28-31).

All the below instruments can be produced with the blue filling, however those marked with an "S", ie "S5C", are exact equivalents to the ASTM Standard, others are similar to the Standard.

These thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity on request.

UKAS
Calibration Certificate
upon request

Statement
of Conformity
upon request



Equivalent ASTM Number	Name	Range	Division	Max Length	Immersion	Product Number
1C	Partial Immersion	-20 to +150°C	1.0°C	327mm	76mm	55/001/2
1F	Partial Immersion	0 to +302°F	2.0°F	327mm	76mm	55/001/1
S5C	Cloud & Pour	-38 to +50°C	1.0°C	235mm	108mm	55/005/2
S5F	Cloud & Pour	-36 to +120°F	2.0°F	235mm	108mm	55/005/1
9C	Low Pensky-Martens	-5 to +110°C	0.5°C	295mm	57mm	55/009/2
9F	Low Pensky-Martens	+90 to +230°F	1.0°F	295mm	57mm	55/009/1
S12C	Density Wide Range	-20 to +102°C	0.2°C	425mm	Total	55/012/2
S12F	Density Wide Range	+5 to +215°F	0.5°F	425mm	Total	55/012/1
13C	Loss on Heating	+155 to +170°C	0.5°C	160mm	Total	55/013/2
14C	Wax Melting Point	+38 to +82°C	0.1°C	380mm	79mm	55/014/2
14F	Wax Melting Point	+100 to +180°F	0.2°F	380mm	79mm	55/014/1
S15C	Low Softening Point	-2 to +80°C	0.2°C	400mm	Total	55/015/2
S15F	Low Softening Point	-30 to +180°F	0.5°F	400mm	Total	55/015/1
16C	High Softening Point	+30 to +200°C	0.5°C	400mm	Total	55/016/2
16F	High Softening Point	+85 to +392°C	1.0°F	400mm	Total	55/016/1
17C	Saybolt Viscosity	+19 to +27°C	0.1°C	280mm	Total	55/017/2
17F	Saybolt Viscosity	+66 to +80°F	0.2°F	280mm	Total	55/017/1
S18C	Reid Vapour Pressure	+34 to +42°C	0.1°C	280mm	Total	55/018/2
S18F	Reid Vapour Pressure	+94 to +108°F	0.2°F	280mm	Total	55/018/1
19C	Saybolt Viscosity	+49 to +57°C	0.1°C	280mm	Total	55/019/2
19F	Saybolt Viscosity	+120 to +134°F	0.2°F	280mm	Total	55/019/1
20C	Saybolt Viscosity	+57 to +65°C	0.1°C	280mm	Total	55/020/2
20F	Saybolt Viscosity	+134 to +184°F	0.2°F	280mm	Total	55/020/1
21C	Saybolt Viscosity	+79 to +87°C	0.1°C	280mm	Total	55/021/2
21F	Saybolt Viscosity	+174 to +188°F	0.2°F	280mm	Total	55/021/1
S22C	Oxidation Stability	+95 to +103°C	0.1°C	280mm	Total	55/022/2
S22F	Oxidation Stability	+204 to +218°F	0.2°F	280mm	Total	55/022/1
23C	Engler Viscosity	+18 to +28°C	0.2°C	217mm	90mm	55/023/2
24C	Engler Viscosity	+39 to +54°C	0.2°C	242mm	90mm	55/024/2

Blue Spirit ASTM Equivalent Thermometers



Equivalent ASTM Number	Name	Range	Division	Max Length	Immersion	Product Number
25C	Engler Viscosity	+95 to +105°C	0.2°C	217mm	90mm	55/025/2
26C	Nitrocellulose Stability	+130 to +140°C	0.1°C	468mm	Total	55/026/2
27C	Turpentine Distillation	+147 to +182°C	0.5°C	306mm	76mm	55/027/2
28C	Kinematic Viscosity	+36.6 to +39.4°C	0.05°C	310mm	Total	55/028/2
28F	Kinematic Viscosity	+97.5 to +102.5°F	0.1°F	310mm	Total	55/028/1
29C	Kinematic Viscosity	+52.6 to +55.4°C	0.05°C	310mm	Total	55/029/2
29F	Kinematic Viscosity	+127.5 to +132.5°F	0.1°F	310mm	Total	55/029/1
30F	Kinematic Viscosity	+207.5 to +212.5°F	0.1°F	310mm	Total	55/030/1
33C	Low Aniline Point	-38 to +42°C	0.2°C	425mm	50mm	55/033/2
33F	Low Aniline Point	-36.5 to +107.5°F	0.2°F	425mm	50mm	55/033/1
34C	Medium Aniline Point	+25 to +105°C	0.2°C	425mm	50mm	55/034/2
34F	Medium Aniline Point	+77 to +221°F	0.5°F	425mm	50mm	55/034/1
35C	High Aniline Point	+90 to +170°C	0.2°C	425mm	50mm	55/035/2
35F	High Aniline Point	+194 to +338°F	0.5°F	425mm	50mm	55/035/1
36C	Titer Test	-2 to +68°C	0.2°C	410mm	45mm	55/036/2
37C	Solvents Distillation	-2 to +52°C	0.2°C	400mm	100mm	55/037/2
38C	Solvents Distillation	+24 to +78°C	0.2°C	400mm	100mm	55/038/2
39C	Solvents Distillation	+48 to +102°C	0.2°C	400mm	100mm	55/039/2
40C	Solvents Distillation	+72 to +126°C	0.2°C	400mm	100mm	55/040/2
41C	Solvents Distillation	+98 to +152°C	0.2°C	400mm	100mm	55/041/2
44C	Kinematic Viscosity	+18.6 to +21.4°C	0.05°C	310mm	Total	55/044/2
44F	Kinematic Viscosity	+66.5 to +71.5°F	0.1°F	310mm	Total	55/044/1
45C	Kinematic Viscosity	+23.6 to +26.4°C	0.05°C	310mm	Total	55/045/2
45F	Kinematic Viscosity	+74.5 to +79.5°F	0.1°F	310mm	Total	55/045/1
46C	Kinematic Viscosity	+48.6 to +51.4°C	0.05°C	310mm	Total	55/066/2
46F	Kinematic Viscosity	+119.5 to +124.5°F	0.1°F	310mm	Total	55/066/2
47C	Kinematic Viscosity	+58.6 to +61.4°C	0.05°C	310mm	Total	55/047/2
47F	Kinematic Viscosity	+137.5 to +142.5°F	0.1°F	310mm	Total	55/047/1
48C	Kinematic Viscosity	+80.6 to +83.4°C	0.05°C	310mm	Total	55/048/2
48F	Kinematic Viscosity	+177.5 to +182.5°F	0.1°F	310mm	Total	55/048/1
49C	Stormer Viscosity	+20 to +70°C	0.2°C	310mm	65mm	55/049/2
50F	Gas Colorimeter Inlet	+54 to +101°F	0.1°F	473mm	Total	55/050/1
51F	Gas Colorimeter Outlet	+69 to +116°F	0.1°F	473mm	Total	55/051/1
52C	Butadiene Boiling Point Range	+10 to +5°C	0.1°C	167mm	Total	55/052/2
54C	Congealing Point	+20 to +100.6°C	0.2°C	315mm	Total	55/054/2
54F	Congealing Point	+68 to +213°F	0.5°F	315mm	Total	55/054/1
S56C	Bomb Calorimeter	+19 to +35°C	0.02°C	600mm	Total	55/056/2
S56F	Bomb Calorimeter	+66 to +95°F	0.05°F	600mm	Total	55/056/1
57C	Tag Closed Tester Low Range	+20 to +50°C	0.5°C	292mm	57mm	55/057/2
57F	Tag Closed Tester Low Range	-4 to +122°F	1.0°F	292mm	57mm	55/057/1
S58C	Tank	+34 to +49°C	0.5°C	305mm	57mm	55/058/2
S58F	Tank	+30 to +120°F	1.0°F	305mm	57mm	55/058/1
S59C	Tank	+18 to +82°C	0.5°C	305mm	57mm	55/059/2
S59F	Tank	0 to +180°F	1.0°F	305mm	57mm	55/059/1
61C	Petrolatum Melting Point	+32 to +127°C	0.2°C	385mm	79mm	55/061/2
61F	Petrolatum Melting Point	+90 to +260°F	0.5°F	385mm	79mm	55/061/1
S62C	Precision	+38 to +2°C	0.1°C	384mm	Total	55/062/2
S62F	Precision	+36 to +35°F	0.2°F	384mm	Total	55/062/1
S63C	Precision	+8 to +32°C	0.1°C	384mm	Total	55/063/2
S63F	Precision	+18 to +89°F	0.2°F	384mm	Total	55/063/1

Equivalent ASTM Number	Name	Range	Division	Max Length	Immersion	Product Number
S64C	Precision	+25 to +55°C	0.1°C	384mm	Total	55/064/2
S64F	Precision	+77 to +131°F	0.2°F	384mm	Total	55/064/1
S65C	Precision	+50 to +80°C	0.1°C	384mm	Total	55/065/2
S65F	Precision	+122 to +176°F	0.2°F	384mm	Total	55/065/1
S66C	Precision	+75 to +105°C	0.1°C	384mm	Total	55/066/2
S66F	Precision	+167 to +221°F	0.2°F	384mm	Total	55/066/1
S67C	Precision	+95 to +155°C	0.2°C	384mm	Total	55/067/2
S67F	Precision	+203 to +311°F	0.5°F	384mm	Total	55/067/1
68C	Precision	+145 to +205°C	0.2°C	384mm	Total	55/068/2
68F	Precision	+293 to +401°F	0.5°F	384mm	Total	55/068/1
71C	Oil in Wax	-37 to +21°C	0.5°C	360mm	76mm	55/071/2
71F	Oil in Wax	-35 to +70°F	1.0°F	360mm	76mm	55/071/1
72C	Kinematic Viscosity	-19.4 to -16.6°C	0.05°C	310mm	Total	55/072/2
72F	Kinematic Viscosity	-2.5 to +2.5°F	0.1°F	310mm	Total	55/072/1
73C	Kinematic Viscosity	-41.4 to -38.6°C	0.05°C	310mm	Total	55/073/2
73F	Kinematic Viscosity	-42.5 to -37.5°F	0.1°F	310mm	Total	55/073/1
75F	Coolant (Anti-Freeze) Freezing Point	-35 to +35°F	0.5°F	413mm	100mm	55/075/1
77F	Saybolt Viscosity	+245 to +265°F	0.5°F	280mm	Total	55/077/1
78F	Saybolt Viscosity	+295 to +315°F	0.5°F	280mm	Total	55/078/1
79F	Saybolt Viscosity	+345 to +365°F	0.5°F	280mm	Total	55/079/1
80F	Saybolt Viscosity	+395 to +415°F	0.5°F	280mm	Total	55/080/1
82C	Fuel Rating, Engine	-15 to +105°C	1.0°C	165mm	30mm	55/082/2
82F	Fuel Rating, Engine	0 to +220°F	2.0°F	165mm	30mm	55/082/1
83C	Fuel Rating, Air	+15 to +70°C	1.0°C	174mm	40mm	55/083/2
83F	Fuel Rating, Air	+60 to +160°F	1.0°F	174mm	40mm	55/083/1
84C	Fuel Rating, Orifice Tank	+25 to +80°C	1.0°C	387mm	249mm	55/084/2
84F	Fuel Rating, Orifice Tank	+75 to +175°F	1.0°F	387mm	249mm	55/084/1
85C	Fuel Rating, Surge	+40 to +150°C	1.0°C	314mm	181mm	55/085/2
85F	Fuel Rating, Surge	+100 to +300°F	2.0°F	314mm	181mm	55/085/1
86C	Fuel Rating, Mix	+95 to +175°C	1.0°C	170mm	35mm	55/086/2
86F	Fuel Rating, Mix	+200 to +350°F	2.0°F	170mm	35mm	55/086/1
87C	Fuel Rating, Coolant	+150 to +205°C	1.0°C	175mm	40mm	55/087/2
87F	Fuel Rating, Coolant	+300 to +400°F	1.0°F	175mm	40mm	55/087/1
88C	Vegetable Oil Flash	+10 to +200°C	1.0°C	292mm	57mm	55/088/2
88F	Vegetable Oil Flash	+50 to +392°F	2.0°F	292mm	57mm	55/088/1
89C	Solidification Point	-20 to +10°C	0.1°C	375mm	76mm	55/089/2
90C	Solidification Point	0 to +30°C	0.1°C	375mm	76mm	55/090/2
S91C	Solidification Point	+20 to +50°C	0.1°C	375mm	76mm	55/091/2
92C	Solidification Point	+40 to +70°C	0.1°C	375mm	76mm	55/092/2
93C	Solidification Point	+60 to +90°C	0.1°C	375mm	76mm	55/093/2
94C	Solidification Point	+80 to +110°C	0.1°C	375mm	76mm	55/094/2
95C	Solidification Point	+100 to +130°C	0.1°C	375mm	76mm	55/095/2
96C	Solidification Point	+80 to +150°C	0.1°C	375mm	76mm	55/096/2
97C	Tank	-18 to +49°C	0.5°C	305mm	Total	55/097/2
97F	Tank	0 to +120°F	1.0°F	305mm	Total	55/097/1
98C	Tank	+16 to +82°C	0.5°C	305mm	Total	55/098/2
98F	Tank	+60 to +180°F	1.0°F	305mm	Total	55/098/1
99C	Weathering Test	-50 to +5°C	0.2°C	305mm	35mm	55/099/2
99F	Weathering Test	-58 to +41°F	0.5°F	305mm	35mm	55/099/1

Equivalent ASTM Number	Name	Range	Division	Max Length	Immersion	Product Number
100C	Solidification Point	+145 to +205°C	0.2°C	375mm	76mm	55/100/2
102C	Solvents Distillation	+123 to +177°C	0.2°C	400mm	100mm	55/102/2
103C	Solvents Distillation	+148 to +202°C	0.2°C	400mm	100mm	55/103/2
104C	Solvents Distillation	+173 to +227°C	0.2°C	400mm	100mm	55/104/2
108F	Saybolt Viscosity	+270 to +290°F	0.5°F	280mm	Total	55/108/1
109F	Saybolt Viscosity	+320 to +340°F	0.5°F	280mm	Total	55/109/1
112C	Solidification Point of Benzene	+4 to +6°C	0.02°C	220mm	Total	55/112/2
113C	Bitumen Softening Point Wide Range	-1 to +175°C	0.5°C	410mm	Total	55/113/2
113F	Bitumen Softening Point Wide Range	+30 to +350°F	1.0°F	410mm	Total	55/113/1
S116C	Bomb Calorimeter	+18.9 to +25.1°C	0.01°C	614mm	Total	55/116/2
S117C	Bomb Calorimeter	+23.9 to +30.1°C	0.01°C	614mm	Total	55/117/2
118C	Kinematic Viscosity	+28.6 to +31.4°C	0.05°C	310mm	Total	55/118/2
118F	Kinematic Viscosity	+83.5 to +88.5°F	0.1°F	310mm	Total	55/118/1
119C	Coolant (Anti-Freeze) Freezing Point	-38.3 to -30°C	0.1°C	425mm	100mm	55/119/2
119F	Coolant (Anti-Freeze) Freezing Point	-37 to -22°F	0.2°F	425mm	100mm	55/119/1
S120C	Kinematic Viscosity	+38.6 to +41.4°C	0.05°C	310mm	Total	55/120/2
121C	Kinematic Viscosity	+98.6 to +101.4°C	0.05°C	310mm	Total	55/121/2
122C	Brookfield Viscosity	-45 to -35°C	0.1°C	305mm	Total	55/122/2
123C	Brookfield Viscosity	-35 to -25°C	0.1°C	305mm	Total	55/123/2
124C	Brookfield Viscosity	-25 to -15°C	0.1°C	305mm	Total	55/124/2
125C	Brookfield Viscosity	-15 to -5°C	0.1°C	305mm	Total	55/125/2
126C	Kinematic Viscosity	-27.4 to -24.6°C	0.05°C	310mm	Total	55/126/2
126F	Kinematic Viscosity	-17.5 to -12.5°F	0.1°F	310mm	Total	55/126/1
127C	Kinematic Viscosity	-21.4 to -18.6°C	0.05°C	310mm	Total	55/127/2
128C	Kinematic Viscosity	-1.4 to +1.4°C	0.05°C	310mm	Total	55/128/2
128F	Kinematic Viscosity	+29.5 to +34.5°F	0.1°F	310mm	Total	55/128/1
129C	Kinematic Viscosity	+91.6 to +94.4°C	0.05°C	310mm	Total	55/129/2
129F	Kinematic Viscosity	+197.5 to +202.5°F	0.1°F	310mm	Total	55/129/1
S130C	Tank	-7 to +105°C	0.5°C	305mm	Total	55/130/2
130F	Tank	+20 to +220°F	1.0°F	305mm	Total	55/130/1
133C	Precision	-38 to +2°C	0.1°C	384mm	76mm	55/133/2
135C	Fuel Rating Air - High	+38 to +93°C	1.0°C	171mm	40mm	55/135/2
135F	Fuel Rating Air - High	+100 to +200°F	1.0°F	171mm	40mm	55/135/1
136C	Aviation Fuel Density	-20 to +60°C	0.2°C	290mm	Total	55/136/2
136F	Aviation Fuel Density	-5 to +140°F	0.5°F	290mm	Total	55/136/1
137C	Oxidation Cell Test	+80 to +100°C	1.0°C	255mm	76mm	55/137/2

UKAS Calibration Certification

All our laboratory thermometers can be supplied with full UKAS Certification on request. Our facilities conform to (BS) EN ISO/IEC 17025:2005 – 'General requirements for the competence of testing and calibration laboratories'. For temperature measurement our laboratory can calibrate all types of liquid-in-glass thermometers i.e. both spirit and mercury. Certification is available for test temperatures between -60°C and +250°C. See Calibration section of this catalogue, or contact our Sales Team for more details.



The thermometers listed below are made in accordance with specifications drawn up by the Institute of Petroleum (IP) for use with specific test methods of petroleum and its products. Many of the tests and instrument specifications are jointly agreed with ASTM and they are marked accordingly. The list of these thermometers is now part of a British Standard. While these thermometers were designed for specific tests, many of them have other uses as quality precision thermometers. They are supplied in yellow back glass and whenever possible have a mercury filling. The thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity on request.



IP Number	ASTM Equiv.	Name	Range °C only	Division	Max Length	Immersion	Product Number
1C	5C	Cloud & Pour	-38 to +50°C	1.0°C	235mm	108mm	58/001/2
2C	6C	Low Cloud & Pour	-80 to +20°C	1.0°C	235mm	76mm	58/002/2
3C	-	Demulsification	-1 to +105°C	0.5°C	305mm	Total	58/003/2
4C	-	Crude Oil Distillation	-4 to +360°C	2.0°C	320mm	Total	58/004/2
5C	7C	Low Distillation	-2 to +300°C	1.0°C	390mm	Total	58/005/2
6C	8C	High Distillation	-2 to +400°C	1.0°C	390mm	Total	58/006/2
8C	-	Flushing-Case Low	0 to +45°C	0.2°C	350mm	65mm	58/008/2
9C	-	Flushing-Case Medium	+40 to +85°C	0.2°C	350mm	65mm	58/009/2
14C	114C	Aviation Fuel Freezing Point	-80 to +20°C	0.5°C	305mm	Total	58/014/2
15C	9C	Low Pensky-Martens	-5 to +110°C	0.5°C	295mm	57mm	58/015/2
16C	10C	High Pensky-Martens	+90 to +370°C	2.0°C	295mm	57mm	58/016/2
17C	14C	Wax Melting Point	+38 to +82°C	0.1°C	380mm	79mm	58/017/2
18C	54C	Congealing Point	+20 to +100.6°C	0.2°C	315mm	Total	58/018/2
20C	33C	Low Aniline Point	-38 to +42°C	0.2°C	425mm	50mm	58/020/2
21C	34C	Medium Aniline Point	+25 to +105°C	0.2°C	425mm	50mm	58/021/2
22C	-	Oxidation	+195 to +205°C	0.1°C	310mm	100mm	58/022/2
23C	18C	Reid Vapour Pressure	+34 to +42°C	0.1°C	280mm	Total	58/023/2
24C	22C	Oxidation Stability	+95 to +103°C	0.1°C	280mm	Total	58/024/2
-	-	Abel Water Bath	+32 to +88°C	0.5°C	228mm	89mm#	58/025/2
-	-	Abel Oil cup	+10 to +65°C	0.5°C	228mm	61mm#	58/026/2
28C	11C	Cleveland Open Flash	-6 to +400°C	2.0°C	315mm	25mm	58/028/2
29C	44C	Kinematic Viscosity 20°C	+18.6 to +21.4°C	0.05°C	310mm	Total	58/029/2
30C	45C	Kinematic Viscosity 25°C	+23.6 to +26.4°C	0.05°C	310mm	Total	58/030/2
31C	28C	Kinematic Viscosity 37,8°C	+36.6 to +39.4°C	0.05°C	310mm	Total	58/031/2
32C	121C	Kinematic Viscosity 98,9°C	+98.6 to +101.4°C	0.05°C	310mm	Total	58/032/2
33C	128C	Kinematic Viscosity 0°C	-1.4 to +1.4°C	0.05°C	310mm	Total	58/033/2
34C	29C	Kinematic Viscosity 54,4°C	+52.6 to +55.4°C	0.05°C	310mm	Total	58/034/2
35C	47C	Kinematic Viscosity 60°C	+58.6 to +61.4°C	0.05°C	310mm	Total	58/035/2
36C	129C	Kinematic Viscosity 93,3°C	+91.6 to +94.4°C	0.05°C	310mm	Total	58/036/2
37C	-	Sludge	+144 to +156°C	0.2°C	280mm	100mm	58/037/2
38C	-	Pen	+23 to +27°C	0.1°C	270mm	Total	58/038/2
39C	-	Density	-1 to +38°C	0.1°C	450mm	Total	58/039/2
40C	-	Drop Point, Low	+20 to +120°C	1.0°C	260mm	100mm	58/040/2
41C	-	Drop Point, High	+100 to +230°C	1.0°C	260mm	100mm	58/041/2
42C	-	Breaking Point	-38 to +30°C	0.5°C	380mm	250mm	58/042/2
43C	-	F P Cut Back (Int)	+10 to +110°C	0.5°C	305mm	61mm#	58/043/2
44C	-	F P Cut Back (Ext)	+15 to +121°C	0.5°C	305mm	89mm#	58/044/2
45C	-	Refractometer	+15 to +30°C	0.2°C	170mm	22mm	58/045/2
46C	-	Westphal Balance	+14.5 to +21°C	0.1°C	170mm	Total	58/046/2
47C	13C	Loss on Heating	+155 to +170°C	0.5°C	160mm	Total	58/047/2
48C	-	Tank Low	-38 to +30°C	0.5°C	315mm	Total	58/048/2
49C	-	Tank Medium	-15 to +40°C	0.5°C	315mm	Total	58/049/2
50C	-	Tank High	+10 to +65°C	0.5°C	315mm	Total	58/050/2
51C	-	Tank Heated Fuel	+35 to +120°C	0.5°C	315mm	Total	58/051/2
52C	-	Tank Bitumen	+90 to +260°C	1.0°C	315mm	Total	58/052/2

IP Number	ASTM Equiv.	Name	Range °C only	Division	Max Length	Immersion	Product Number
53C	-	Tank Cargo	0 to +80°C	0.5°C	315mm	Total	58/053/2
54C	-	Angle Stem - Tank Low	-38 to +30°C	0.5°C	*	*	58/054/2
55C	-	Angle Stem - Tank MEDIUM	-15 to +40°C	0.5°C	*	*	58/055/2
56C	-	Angle Stem - Tank HIGH	+10 to +65°C	0.5°C	*	*	58/056/2
57C	-	Angle Stem - Tank Heated Fuel	+35 to +120°C	0.5°C	*	*	58/057/2
58C	-	Angle Stem - Tank Bitumen	+90 to +260°C	1.0°C	*	*	58/058/2
59C	35C	High Analine Point	+90 to +170°C	0.2°C	425mm	50mm	58/059/2
60C	15C	Low Softening Point	-2 to +80°C	0.2°C	400mm	Total	58/060/2
61C	16C	High Softening Point	+30 to +200°C	0.5°C	400mm	Total	58/061/2
62C	-	Partial Immersion	-5 to +300°C	1.0°C	395mm	76mm	58/062/2
63C	61C	Petrolatum Melting Point	+32 to +127°C	0.2°C	385mm	79mm	58/063/2
64C	12C	Density Wide Range	-20 to +102°C	0.2°C	425mm	Total	58/064/2
65C	43C	Kinematic Viscosity Low	-51.6 to -34°C	0.1°C	425mm	Total	58/065/2
66C	46C	Kinematic Viscosity 50°C	+48.6 to +51.4°C	0.05°C	310mm	Total	58/066/2
67C	72C	Kinematic Viscosity -17,8°C	-19.4 to -16.6°C	0.05°C	310mm	Total	58/067/2
68C	73C	Kinematic Viscosity -40°C	-41.4 to -38.6°C	0.05°C	310mm	Total	58/068/2
69C	74C	Kinematic Viscosity -53,9°C	-55.4 to -52.6°C	0.05°C	310mm	Total	58/069/2
71C	126C	Kinematic Viscosity -26,1°C	-27.4 to -24.6°C	0.05°C	310mm	Total	58/071/2
72C	71C	Oil in Wax	-37 to +21°C	0.5°C	360mm	76mm	58/072/2
73C	3C	Partial Immersion	-5 to +400°C	1.0°C	420mm	76mm	58/073/2
74C	-	Abel Oil cup - Wide Range	-35 to +70°C	0.5°C	320mm	61mm#	58/074/2
75C	-	Abel Water Bath - Wide Range	-30 to +80°C	0.5°C	320mm	89mm#	58/075/2
76C	-	Engler Viscosity	+10 to +55°C	0.5°C	250mm	93mm	58/076/2
77C	37C	Solvents Distillation	-2 to +52°C	0.2°C	400mm	100mm	58/077/2
78C	38C	Solvents Distillation	+24 to +78°C	0.2°C	400mm	100mm	58/078/2
79C	39C	Solvents Distillation	+48 to +102°C	0.2°C	400mm	100mm	58/079/2
80C	40C	Solvents Distillation	+72 to +126°C	0.2°C	400mm	100mm	58/080/2
81C	41C	Solvents Distillation	+98 to +152°C	0.2°C	400mm	100mm	58/081/2
82C	42C	Solvents Distillation	+95 to +255°C	0.5°C	400mm	100mm	58/082/2
83C	102C	Solvents Distillation	+123 to +177°C	0.2°C	400mm	100mm	58/083/2
84C	103C	Solvents Distillation	+148 to +202°C	0.2°C	400mm	100mm	58/084/2
85C	104C	Solvents Distillation	+173 to +227°C	0.2°C	400mm	100mm	58/085/2
86C	105C	Solvents Distillation	+198 to +252°C	0.2°C	400mm	100mm	58/086/2
87C	106C	Solvents Distillation	+223 to +277°C	0.2°C	400mm	100mm	58/087/2
88C	107C	Solvents Distillation	+248 to +302°C	0.2°C	400mm	100mm	58/088/2
89C	113C	Bitumen Softening Point - Wide Range	-1 to +175°C	0.5°C	410mm	Total	58/089/2
90C	48C	Kinematic Viscosity 82.2°C	+80.6 to +83.4°C	0.05°C	310mm	Total	58/090/2
91C	-	Rapid Flash	0 to +110°C	1.0°C	200mm	44mm	58/091/2
92C	120C	Kinematic Viscosity 40°C	+38.6 to +41.4°C	0.05°C	310mm	Total	58/092/2
93C	110C	Kinematic Viscosity 135°C	+133.6 to +136.4°C	0.05°C	310mm	Total	58/093/2
94C	122C	Brookfield Viscosity	-45 to -35°C	0.1°C	305mm	Total	58/094/2
95C	123C	Brookfield Viscosity	-35 to -25°C	0.1°C	305mm	Total	58/095/2
96C	124C	Brookfield Viscosity	-25 to -15°C	0.1°C	305mm	Total	58/096/2
97C	125C	Brookfield Viscosity	-15 to -5°C	0.1°C	305mm	Total	58/097/2
98C	-	Rapid Flash (High)	+100 to +300°C	2.0°C	200mm	44mm	58/098/2
99C	127C	Kinematic Viscosity -20°C	-21.4 to -18.6°C	0.05°C	310mm	Total	58/099/2
100C	-	Kinematic Viscosity 80°C	+78.6 to +81.4°C	0.05°C	310mm	Total	58/100/2
101C	-	Medium Pensky Martens	+20 to +150°C	1.0°C	295mm	57mm	58/101/2
102C	132C	Kinematic Viscosity 150°C	+148.6 to +151.4	°C0.05°C	310mm	Total	58/102/2

To suit 'Abel Apparatus'
* Dimensions not specified

The thermometers listed below are in accordance with specifications of the American Society for Testing and Materials (ASTM). Many of the instruments are identical to the IP (BS 2000) thermometers listed earlier and are marked accordingly. While these thermometers were designed for use in specific tests, many of them are used in other applications when precision thermometers are required. They are supplied in yellow back glass whenever possible, have a mercury filling and can be supplied with UKAS Calibration Certificate or Statement of Conformity on request.



ASTM Number	IP Equiv.	Name	Range	Division	Max Length	Immersion	Product Number
1F	-	Partial Immersion	0 to +302°F	2.0°F	327mm	76mm	59/001/1
1C	-	Partial Immersion	-20 to +150°C	1.0°C	327mm	76mm	59/001/2
2F	-	Partial Immersion	+20 to +580°F	2.0°F	395mm	76mm	59/002/1
3C	73C	Partial Immersion	-5 to +400°C	1.0°C	420mm	76mm	58/073/2
3F	-	Partial Immersion	+20 to +760°F	2.0°F	420mm	76mm	59/003/1
5C	1C	Cloud & Pour	-38 to +50°C	1.0°C	235mm	108mm	58/001/2
5F	-	Cloud & Pour	-36 to +120°F	2.0°F	235mm	108mm	59/005/1
6C	2C	Low Cloud & Pour	-80 to +20°C	1.0°C	235mm	76mm	58/002/2
6F	-	Low Cloud & Pour	-112 to +70°F	2.0°F	235mm	76mm	59/006/1
7C	5C	Low Distillation	-2 to +300°C	1.0°C	390mm	Total	58/005/2
7F	-	Low Distillation	+30 to +580°F	2.0°F	390mm	Total	59/007/1
8C	6C	High Distillation	-2 to +400°C	1.0°C	390mm	Total	58/006/2
8F	-	High Distillation	+30 to +760°F	2.0°F	390mm	Total	59/008/1
9C	15C	Low Pensky-Martens	-5 to +110°C	0.5°C	295mm	57mm	58/015/2
9F	-	Low Pensky-Martens	+90 to +230°F	1.0°F	295mm	57mm	59/009/1
10C	16C	High Pensky-Martens	+90 to +370°C	2.0°C	295mm	57mm	58/016/2
10F	-	Low Pensky-Martens	+200 to +700°F	5.0°F	295mm	57mm	59/010/1
11C	28C	Cleveland Open Flash	+6 to +400°C	2.0°C	315mm	25mm	58/028/2
11F	-	Cleveland Open Flash	+20 to +760°F	5.0°F	315mm	25mm	59/011/1
12C	64C	Density Wide Range	-20 to +102°C	0.2°C	425mm	Total	58/064/2
12F	-	Density Wide Range	+5 to +215°F	0.5°F	425mm	Total	59/012/1
13C	47C	Loss on Heating	+155 to +170°C	0.5°C	160mm	Total	58/047/2
14C	17C	Wax Melting Point	+38 to +82°C	0.1°C	380mm	79mm	58/017/2
14F	-	Wax Melting Point	+100 to +180°F	0.2°F	380mm	79mm	58/017/1
15C	60C	Low Softening Point	-2 to +80°C	0.2°C	400mm	Total	58/060/2
15F	-	Low Softening Point	-30 to +180°F	0.5°F	400mm	Total	59/015/1
16C	61C	High Softening Point	+30 to +200°C	0.5°C	400mm	Total	58/061/2
16F	-	High Softening Point	+85 to +392°C	1.0°F	400mm	Total	58/016/2
17C	-	Saybolt Viscosity	+19 to +27°C	0.1°C	280mm	Total	59/017/2
17F	-	Saybolt Viscosity	+66 to +80°F	0.2°F	280mm	Total	59/017/1
18C	23C	Reid Vapour Pressure	+34 to +42°C	0.1°C	280mm	Total	58/023/2
18F	-	Reid Vapour Pressure	+94 to +108°F	0.2°F	280mm	Total	58/018/1
19C	-	Saybolt Viscosity	+49 to +57°C	0.1°C	280mm	Total	59/019/2
19F	-	Saybolt Viscosity	+120 to +134°F	0.2°F	280mm	Total	59/019/1
20C	-	Saybolt Viscosity	+57 to +65°C	0.1°C	280mm	Total	59/020/2
20F	-	Saybolt Viscosity	+134 to +184°F	0.2°F	280mm	Total	59/020/1
21C	-	Saybolt Viscosity	+79 to +87°C	0.1°C	280mm	Total	59/021/2
21F	-	Saybolt Viscosity	+174 to +188°F	0.2°F	280mm	Total	59/021/1
22C	24C	Oxidation Stability	+95 to +103°C	0.1°C	280mm	Total	58/024/2
22F	-	Oxidation Stability	+204 to +218°F	0.2°F	280mm	Total	58/022/1
23C	-	Engler Viscosity	+18 to +28°C	0.2°C	217mm	90mm	59/023/2
24C	-	Engler Viscosity	+39 to +54°C	0.2°C	242mm	90mm	59/024/2
25C	-	Engler Viscosity	+95 to +105°C	0.2°C	217mm	90mm	59/025/2
26C	-	Nitrocellulose Stability	+130 to +140°C	0.1°C	468mm	Total	59/026/2
27C	-	Turpentine Distillation	+147 to +182°C	0.5°C	306mm	76mm	59/027/2
28C	31C	Kinematic Viscosity	+36.6 to +39.4°C	0.05°C	310mm	Total	58/031/2

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Laboratory Thermometers

ASTM Number	IP Equiv.	Name	Range	Division	Max Length	Immersion	Product Number
28F	-	Kinematic Viscosity	+97.5 to +102.5°F	0.1°F	310mm	Total	59/028/1
29C	34C	Kinematic Viscosity	+52.6 to +55.4°C	0.05°C	310mm	Total	58/034/2
29F	-	Kinematic Viscosity	+127.5 to +132.5°F	0.1°F	310mm	Total	59/029/1
30F	-	Kinematic Viscosity	+207.5 to +212.5°F	0.1°F	310mm	Total	59/030/1
33C	20C	Low Aniline Point	-38 to +42°C	0.2°C	425mm	50mm	58/020/2
33F	-	Low Aniline Point	-36.5 to +107.5°F	0.2°F	425mm	50mm	59/033/1
34C	21C	Medium Aniline Point	+25 to +105°C	0.2°C	425mm	50mm	58/021/2
34F	21F	Medium Aniline Point	+77 to +221°F	0.5°F	425mm	50mm	58/021/1
35C	59C	High Aniline Point	+90 to +170°C	0.2°C	425mm	50mm	58/059/2
35F	59F	High Aniline Point	+194 to +338°F	0.5°F	425mm	50mm	59/035/1
36C	-	Titer Test	-2 to +68°C	0.2°C	410mm	45mm	59/036/2
37C	77C	Solvents Distillation	-2 to +52°C	0.2°C	400mm	100mm	58/077/2
38C	78C	Solvents Distillation	+24 to +78°C	0.2°C	400mm	100mm	58/078/2
39C	79C	Solvents Distillation	+48 to +102°C	0.2°C	400mm	100mm	58/079/2
40C	80C	Solvents Distillation	+72 to +126°C	0.2°C	400mm	100mm	58/080/2
41C	81C	Solvents Distillation	+98 to +152°C	0.2°C	400mm	100mm	58/081/2
42C	82C	Solvents Distillation	+95 to +255°C	0.5°C	400mm	100mm	58/082/2
43C	65C	Kinematic Viscosity	-51.6 to -34°C	0.1°C	425mm	Total	58/065/2
43F	-	Kinematic Viscosity	-51.6 to -34°F	0.1°F	425mm	Total	58/043/1
44C	29C	Kinematic Viscosity	+18.6 to +21.4°C	0.05°C	310mm	Total	58/029/2
44F	29F	Kinematic Viscosity	+66.5 to +71.5°F	0.1°F	310mm	Total	59/044/1
45C	30C	Kinematic Viscosity	+23.6 to +26.4°C	0.05°C	310mm	Total	58/030/2
45F	-	Kinematic Viscosity	+74.5 to +79.5°F	0.1°F	310mm	Total	59/045/1
46C	66C	Kinematic Viscosity	+48.6 to +51.4°C	0.05°C	310mm	Total	58/066/2
46F	66F	Kinematic Viscosity	+119.5 to +124.5°F	0.1°F	310mm	Total	58/066/1
47C	35C	Kinematic Viscosity	+58.6 to +61.4°C	0.05°C	310mm	Total	58/035/2
47F	-	Kinematic Viscosity	+137.5 to +142.5°F	0.1°F	310mm	Total	59/047/1
48C	90C	Kinematic Viscosity	+80.6 to +83.4°C	0.05°C	310mm	Total	58/090/2
48F	-	Kinematic Viscosity	+177.5 to +182.5°F	0.1°F	310mm	Total	59/048/1
49C	-	Stormer Viscosity	+20 to +70°C	0.2°C	310mm	65mm	59/049/2
50F	-	Gas Colorimeter Inlet	+54 to +101°F	0.1°F	473mm	Total	59/050/1
51F	-	Gas Colorimeter Outlet	+69 to +116°F	0.1°F	473mm	Total	59/051/1
52C	-	Butadiene Boiling Point Range	+10 to +5°C	0.1°C	167mm	Total	59/052/2
54C	18C	Congealing Point	+20 to +100.6°C	0.2°C	315mm	Total	58/018/2
54F	-	Congealing Point	+68 to +213°F	0.5°F	315mm	Total	59/054/1
56C	-	Bomb Calorimeter	+19 to +35°C	0.02°C	600mm	Total	59/056/2
56F	-	Bomb Calorimeter	+66 to +95°F	0.05°F	600mm	Total	59/056/1
57C	-	Tag Closed Tester Low Range	+20 to +50°C	0.5°C	292mm	57mm	59/057/2
57F	-	Tag Closed Tester Low Range	-4 to +122°F	1.0°F	292mm	57mm	59/057/1
58C	-	Tank	+34 to +49°C	0.5°C	305mm	57mm	59/058/2
58F	-	Tank	+30 to +120°F	1.0°F	305mm	57mm	59/058/1
59C	-	Tank	+18 to +82°C	0.5°C	305mm	57mm	59/059/2
59F	-	Tank	0 to +180°F	1.0°F	305mm	57mm	59/059/1
60C	-	Tank	+77 to +260°C	1.0°C	305mm	57mm	59/060/2
60F	-	Tank	+170 to +500°F	2.0°F	305mm	57mm	59/060/1
61C	63C	Petrolatum Melting Point	+32 to +127°C	0.2°C	385mm	79mm	58/063/2
61F	-	Petrolatum Melting Point	+90 to +260°F	0.5°F	385mm	79mm	58/061/1
62C	-	Precision	+38 to +2°C	0.1°C	384mm	Total	59/062/2
62F	-	Precision	+36 to +35°F	0.2°F	384mm	Total	59/062/1
63C	-	Precision	+8 to +32°C	0.1°C	384mm	Total	59/063/2
63F	-	Precision	+18 to +89°F	0.2°F	384mm	Total	59/063/1
64C	-	Precision	+25 to +55°C	0.1°C	384mm	Total	59/064/2

ASTM Number	IP Equiv.	Name	Range	Division	Max Length	Immersion	Product Number
64F	-	Precision	+77 to +131°F	0.2°F	384mm	Total	59/064/1
65C	-	Precision	+50 to +80°C	0.1°C	384mm	Total	59/065/2
65F	-	Precision	+122 to +176°F	0.2°F	384mm	Total	59/065/1
66C	-	Precision	+75 to +105°C	0.1°C	384mm	Total	59/066/2
66F	-	Precision	+167 to +221°F	0.2°F	384mm	Total	59/066/1
67C	-	Precision	+95 to +155°C	0.2°C	384mm	Total	59/067/2
67F	-	Precision	+203 to +311°F	0.5°F	384mm	Total	59/067/1
68C	-	Precision	+145 to +205°C	0.2°C	384mm	Total	59/068/2
68F	-	Precision	+293 to +401°F	0.5°F	384mm	Total	59/068/1
69C	-	Precision	+195 to +305°C	0.5°C	384mm	Total	59/069/2
69F	-	Precision	+383 to +581°F	1.0°F	384mm	Total	59/069/1
70C	-	Precision	+295 to +405°C	0.5°C	384mm	Total	59/070/2
70F	-	Precision	+563 to +761°F	1.0°F	384mm	Total	59/070/1
71C	72C	Oil in Wax	-37 to +21°C	0.5°C	360mm	76mm	58/072/2
71F	-	Oil in Wax	-35 to +70°F	1.0°F	360mm	76mm	59/071/1
72C	67C	Kinematic Viscosity	-19.4 to -16.6°C	0.05°C	310mm	Total	58/067/2
72F	-	Kinematic Viscosity	-2.5 to +2.5°F	0.1°F	310mm	Total	59/072/1
73C	68C	Kinematic Viscosity	-41.4 to -38.6°C	0.05°C	310mm	Total	58/068/2
73F	-	Kinematic Viscosity	-42.5 to -37.5°F	0.1°F	310mm	Total	59/073/1
74C	69C	Kinematic Viscosity	-55.4 to -52.6°C	0.05°C	310mm	Total	58/069/2
74F	-	Kinematic Viscosity	-67.5 to -62.5°F	0.1°F	310mm	Total	59/074/1
75F	-	Coolant (Anti-Freeze) Freezing Point	-35 to +35°F	0.5°F	413mm	100mm	59/075/1
76F	-	Coolant (Anti-Freeze) Freezing Point	-65 to +5°F	0.5°F	413mm	100mm	59/076/1
77F	-	Saybolt Viscosity	+245 to +265°F	0.5°F	280mm	Total	59/077/1
78F	-	Saybolt Viscosity	+295 to +315°F	0.5°F	280mm	Total	59/078/1
79F	-	Saybolt Viscosity	+345 to +365°F	0.5°F	280mm	Total	59/079/1
80F	-	Saybolt Viscosity	+395 to +415°F	0.5°F	280mm	Total	59/080/1
81F	-	Saybolt Viscosity	+445 to +465°F	0.5°F	280mm	Total	59/081/1
82C	-	Fuel Rating, Engine	-15 to +105°C	1.0°C	165mm	30mm	59/082/2
82F	-	Fuel Rating, Engine	0 to +220°F	2.0°F	165mm	30mm	59/082/1
83C	-	Fuel Rating, Air	+15 to +70°C	1.0°C	174mm	40mm	59/083/2
83F	-	Fuel Rating, Air	+60 to +160°F	1.0°F	174mm	40mm	59/083/1
84C	-	Fuel Rating, Orifice Tank	+25 to +80°C	1.0°C	387mm	249mm	59/084/2
84F	-	Fuel Rating, Orifice Tank	+75 to +175°F	1.0°F	387mm	249mm	59/084/1
85C	-	Fuel Rating, Surge	+40 to +150°C	1.0°C	314mm	181mm	59/085/2
85F	-	Fuel Rating, Surge	+100 to +300°F	2.0°F	314mm	181mm	59/085/1
86C	-	Fuel Rating, Mix	+95 to +175°C	1.0°C	170mm	35mm	59/086/2
86F	-	Fuel Rating, Mix	+200 to +350°F	2.0°F	170mm	35mm	59/086/1
87C	-	Fuel Rating, Coolant	+150 to +205°C	1.0°C	175mm	40mm	59/087/2
87F	-	Fuel Rating, Coolant	+300 to +400°F	1.0°F	175mm	40mm	59/087/1
88C	-	Vegetable Oil Flash	+10 to +200°C	1.0°C	292mm	57mm	59/088/2
88F	-	Vegetable Oil Flash	+50 to +392°F	2.0°F	292mm	57mm	59/088/1
89C	-	Solidification Point	-20 to +10°C	0.1°C	375mm	76mm	59/089/2
90C	-	Solidification Point	0 to +30°C	0.1°C	375mm	76mm	59/090/2
91C	-	Solidification Point	+20 to +50°C	0.1°C	375mm	76mm	59/091/2
92C	-	Solidification Point	+40 to +70°C	0.1°C	375mm	76mm	59/092/2
93C	-	Solidification Point	+60 to +90°C	0.1°C	375mm	76mm	59/093/2
94C	-	Solidification Point	+80 to +110°C	0.1°C	375mm	76mm	59/094/2
95C	-	Solidification Point	+100 to +130°C	0.1°C	375mm	76mm	59/095/2
96C	-	Solidification Point	+80 to +150°C	0.1°C	375mm	76mm	59/096/2

ASTM Number	IP Equiv.	Name	Range	Division	Max Length	Immersion	Product Number
97C	-	Tank	-18 to +49°C	0.5°C	305mm	Total	59/097/2
97F	-	Tank	0 to +120°F	1.0°F	305mm	Total	59/097/1
98C	-	Tank	+16 to +82°C	0.5°C	305mm	Total	59/098/2
98F	-	Tank	+60 to +180°F	1.0°F	305mm	Total	59/098/1
99C	-	Weathering Test	-50 to +5°C	0.2°C	305mm	35mm	59/099/2
99F	-	Weathering Test	-58 to +41°F	0.5°F	305mm	35mm	59/099/1
100C	-	Solidification Point	+145 to +205°C	0.2°C	375mm	76mm	59/100/2
101C	-	Solidification Point	+195 to +305°C	0.5°C	375mm	76mm	59/101/2
102C	83C	Solvents Distillation	+123 to +177°C	0.2°C	400mm	100mm	58/083/2
103C	84C	Solvents Distillation	+148 to +202°C	0.2°C	400mm	100mm	58/084/2
104C	85C	Solvents Distillation	+173 to +227°C	0.2°C	400mm	100mm	58/085/2
105C	86C	Solvents Distillation	+198 to +252°C	0.2°C	400mm	100mm	58/086/2
106C	87C	Solvents Distillation	+223 to +277°C	0.2°C	400mm	100mm	58/087/2
107C	88C	Solvents Distillation	+248 to +302°C	0.2°C	400mm	100mm	58/088/2
108F	-	Saybolt Viscosity	+270 to +290°F	0.5°F	280mm	Total	59/108/1
109F	-	Saybolt Viscosity	+320 to +340°F	0.5°F	280mm	Total	59/109/1
110C	93C	Kinematic Viscosity	+133.6 to +136.4°C	0.05°C	310mm	Total	58/093/2
110F	-	Kinematic Viscosity	+272.5 to +277.5°F	0.1°F	310mm	Total	59/110/1
111C	-	Tar Acid Distillation	+170 to +250°C	0.2°C	400mm	100mm	59/111/2
112C	-	Solidification Point of Benzene	+4 to +6°C	0.02°C	220mm	Total	59/112/2
113C	89C	Bitumen Softening Point Wide Range	-1 to +175°C	0.5°C	410mm	Total	58/089/2
113F	-	Bitumen Softening Point Wide Range	+30 to +350°F	1.0°F	410mm	Total	59/113/1
114C	14C	Aviation Fuel Freezing Point	-80 to +20°C	0.5°C	305mm	Total	58/014/2
115C	-	Enclosed Scale Beckman Type	+5 or +6°C	0.01°C	640mm	-	59/115/2
116C	-	Bomb Calorimeter	+18.9 to +25.1°C	0.01°C	614mm	Total	59/116/2
117C	-	Bomb Calorimeter	+23.9 to +30.1°C	0.01°C	614mm	Total	59/117/2
118C	-	Kinematic Viscosity	+28.6 to +31.4°C	0.05°C	310mm	Total	59/118/2
118F	-	Kinematic Viscosity	+83.5 to +88.5°F	0.1°F	310mm	Total	59/118/1
119C	-	Coolant (Anti-Freeze) Freezing Point	-38.3 to -30°C	0.1°C	425mm	100mm	59/119/2
119F	-	Coolant (Anti-Freeze) Freezing Point	-37 to -22°F	0.2°F	425mm	100mm	59/119/1
120C	92C	Kinematic Viscosity	+38.6 to +41.4°C	0.05°C	310mm	Total	58/092/2
121C	32C	Kinematic Viscosity	+98.6 to +101.4°C	0.05°C	310mm	Total	58/032/2
122C	94C	Brookfield Viscosity	-45 to -35°C	0.1°C	305mm	Total	58/094/2
123C	95C	Brookfield Viscosity	-35 to -25°C	0.1°C	305mm	Total	58/095/2
124C	96C	Brookfield Viscosity	-25 to -15°C	0.1°C	305mm	Total	58/096/2
125C	97C	Brookfield Viscosity	-15 to -5°C	0.1°C	305mm	Total	58/097/2
126C	71C	Kinematic Viscosity	-27.4 to -24.6°C	0.05°C	310mm	Total	58/071/2
126F	-	Kinematic Viscosity	-17.5 to -12.5°F	0.1°F	310mm	Total	59/126/1
127C	99C	Kinematic Viscosity	-21.4 to -18.6°C	0.05°C	310mm	Total	58/099/2
128C	33C	Kinematic Viscosity	-1.4 to +1.4°C	0.05°C	310mm	Total	58/033/2
128F	-	Kinematic Viscosity	+29.5 to +34.5°F	0.1°F	310mm	Total	59/128/1
129C	36C	Kinematic Viscosity	+91.6 to +94.4°C	0.05°C	310mm	Total	58/036/2
129F	-	Kinematic Viscosity	+197.5 to +202.5°F	0.1°F	310mm	Total	59/129/1
130C	-	Tank	-7 to +105°C	0.5°C	305mm	Total	59/130/2
130F	-	Tank	+20 to +220°F	1.0°F	305mm	Total	59/130/1
132C	102C	Kinematic Viscosity	+148.6 to +151.4°C	0.05°C	310mm	Total	58/102/2
133C	-	Precision	-38 to +2°C	0.1°C	384mm	76mm	59/133/2

Protective Cases for Thermometers

To protect the standard 6.5mm diameter laboratory thermometer from breakage, a variety of cases are available. These have a slot front for easy reading, a suspension ring at the top and holes in the bulb end to ensure quick response to temperature.

Also available is a case with a sampling cup at the bulb end for use when the thermometer cannot be read whilst immersed.



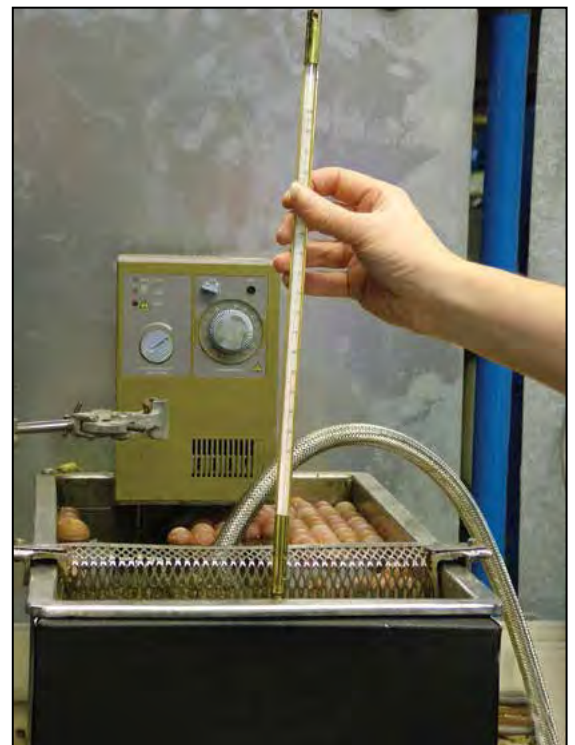
Case Type	Length	Product number
Brass Slot Front Cases	155mm	47/732/0
	305mm	47/432/0
	355mm	47/832/0
	405mm	47/932/0
Stainless Slot Front Cases	305mm	47/434/0
	405mm	47/934/0
Stainless Sampling Cup Cases	305mm	47/435/0



Stem Type Glass Sampling Case Complete with Thermometers

All **Brannan** thermometers can be supplied fitted in a case. Please talk to our Sales Team about suitable case for your thermometer. The instruments listed below are popular thermometers in cases which are available from stock.

Cases with Thermometer	Temp Range	Length	Product number
Stainless Steel Sampling Case with Solid Stem Thermometer	-10 to 110°C	305mm	24/001/2
	-10 to 110°C&F	305mm	24/001/3
Heavy Duty Brass Case with Enclosed Scale Thermometer	-10 to 110°C&F	300mm	24/006/3





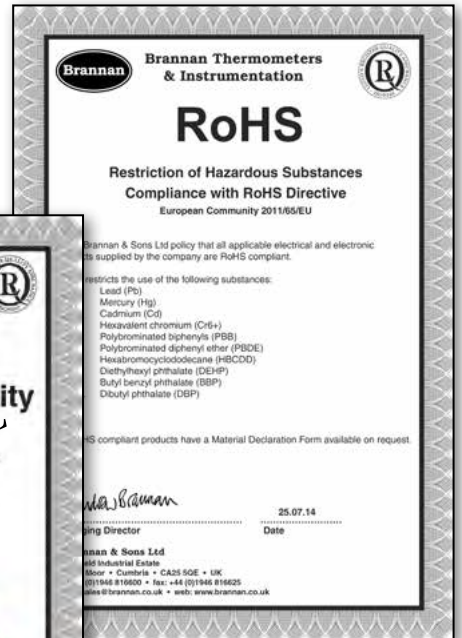
Digital & Electronic Instrumentation

Probe Thermometers
Max Min Thermometers
Environmental Instrumentation
K-Type Probes
Timers, Stopwatches & Tally Counters

Remote Reading Thermometers
Infrared Instrumentation
Thermocouple Thermometers
Data Loggers

Brannan

All **Brannan** instruments are supplied complete with battery and full instructions and are CE, WEEE and RoHS compliant. Full certification is available via our website.



All electronic instruments can be supplied with certificate traceable to Recognised National Standard or a Statement of Conformity, if required. In addition, many instruments can be supplied with UKAS Calibration Certificate. Please contact us for advice on the most appropriate certification for your instrument and for quotation.

UKAS
Calibration Certificate
upon request



Traceable
Calibration Certificate
upon request



Statement of Conformity
upon request



New

Brannan offer a wide range of electronic instruments for a variety of applications. We are constantly updating our product range and new instruments are being introduced throughout the year. Listed below are products which we have recently introduced and include new waterproof probe thermometers, new range of infrared thermometers, ranges of co-ordinated environmental meters, as well as a comprehensive range of data loggers.



Waterproof Test Thermometer
Page 36



Dishwasher Safe Thermometer
Page 37



Digital Max Min Thermometer
Page 38



Infrared Thermometer Range
Page 43



Dual Laser Infrared Thermometer
Page 44



Professional Environmental Meters
Pages 46-47



Mini Environmental Meters
Page 45



Thermocouple Thermometer
Page 53

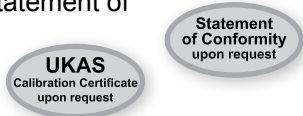


Data Loggers
Pages 54-55

The following is our range of digital probe thermometers, suitable for a variety of applications:

- | | |
|-----------------------|---------------------------|
| Air conditioning | Food Processing & Storage |
| Heating & ventilation | Energy Management |
| Agriculture | Petrocarbons |
| Photography | Refrigeration |
| Pharmaceutical | Brewing |
| Process Control | Laboratory |

Probe thermometer can be supplied with UKAS Calibration Certificate or Statement of Conformity on request.



1. Swivel Head Pocket Test Thermometer

Pocket test thermometer with 145mm probe. Adjustable head through 180° rotation and spiked stainless steel stem. The pocket case and clip can act as a handle for the instrument during use. Hold facility to record temperature. Range: -45 to +200°C Accuracy*: +/-1°C between 0 and 100°C Dimensions: 145 x 34 x 30mm LCD Dimensions: 10 x 20mm **31/147/0**



2. Short Pocket Test Thermometer

Water resistant thermometer with max/min memory and 110mm stainless steel probe. Supplied with protective pocket and clip. Range: -10 to +200°C&F Accuracy*: +/-2°C between -10 and 40°C Dimensions: 175 x 48 x 15mm LCD Dimensions: 9 x 16mm **31/155/0**

3. Long Pocket Test Thermometer

Water resistant thermometer with 210mm stainless steel probe. Supplied with protective pocket and clip. Range: -10 to +110°C&F Accuracy*: +/-1°C between +1 and 40°C LCD Dimensions: 14 x 25mm Dimensions: 290 x 55 x 15mm **31/156/0**



4. Vertical Barrel Test Thermometer

Test thermometer with vertical display. 120mm stainless steel probe. Supplied with pocket case and clip. Range: -50 to +150°C&F Accuracy*: +/-1°C between -21 and 120°C Dimensions: 195 x 21 x 21mm LCD Dimensions: 7 x 17mm **31/160/0**



5. Horizontal Barrel Test Thermometer

Test thermometer with horizontal display. 120mm stainless steel probe. Supplied with pocket case and clip. Range: -50 to +150°C&F Accuracy*: +/-1°C between -21 and 120°C Dimensions: 152 x 58 x 20mm LCD Dimensions: 7 x 17mm **31/161/0**



7. Waterproof Test Thermometer

Waterproof thermometer to IP65. With max/min memory and hold functions and 120mm stainless steel probe. Supplied with pocket case. Range: -50 to +300°C&F Accuracy*: +/-1°C between -20 and 120°C Dimensions: 222 x 30 x 15mm LCD Dimensions: 10 x 27mm **31/163/0**



6. Waterproof Test Thermometer

Waterproof thermometer to IP65. With max/min memory and hold functions and 120mm stainless steel probe. Supplied with pocket case and clip. Range: -40 to 240°C&F Accuracy*: +/-1°C between 0 and 100°C Dimensions: 200 x 20 x 15mm LCD Dimensions: 7 x 17mm **31/162/0**



New



New

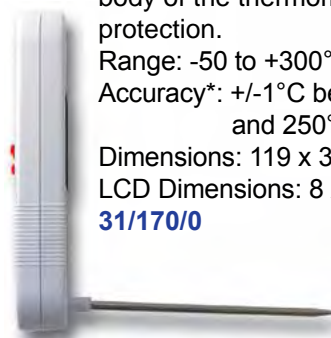


8. Waterproof Test Thermometer Dishwasher safe to 88°C

Waterproof thermometer to IPX7. Suitable for use in dishwasher during cycle. With max/min memory and hold functions and 115mm stainless steel probe. Supplied with pocket case which can be connected to back of thermometer to extend handle.

Range: -40 to +250°C&F
Accuracy*: +/-1°C between -10 and 100°C

Dimensions: 212 x 36 x 16mm
LCD Dimensions: 15 x 25mm
31/164/0



9. Folding Probe Test Thermometer

Probe thermometer with max/min memory and 97mm stainless steel probe which folds in and out of the body of the thermometer for protection.

Range: -50 to +300°C&F
Accuracy*: +/-1°C between -30 and 250°C

Dimensions: 119 x 30 x 18mm (closed)
LCD Dimensions: 8 x 19mm
31/170/0



10. Hand Held Thermometer

Robust 125mm stainless steel probe connected by a 1.5m lead. Temperature hold and max/min recording functions. Complete with hanger, stand and magnetic fixtures.

Replacement probes also available.
Range: -50 to +200°C&F
Accuracy*: +/-1°C between -50 and 100°C
Dimensions: 97 x 65 x 20mm
LCD Dimensions: 16 x 36mm

38/650/0
Replacement Probe - 38/650/1



11. Hand Held Thermometer with Alarm & Timer

Hand held thermometer with alarm function and twin displays. 1m cable and 235mm stainless steel probe. Data hold and max/min recording functions. Complete with hanger, stand and magnetic fixtures. Replacement probes also available.

Range: -50 to +300°C&F
Accuracy*: +/-2°C between 0 and 150°C
Dimensions: 97 x 65 x 20mm
LCD Dimensions: 16 x 36mm x 2

38/660/0
Replacement Probe - 38/660/1



UKAS
Calibration Certificate
upon request

Statement
of Conformity
upon request

CE
RoHS

WEEE
Compliant

Thermometer Description	Range	Basic Accuracy*	Max/Min Function	Water Resistant	Probe Length	LCD Dimensions	Product Dimensions	Product Number
1. Swivel Head Pocket Test	-45 to +200°C&F	+/-1°C	X	X	125mm	10 x 20mm	145 x 34 x 30mm	31/147/0
2. Short Test	-10 to +200°C&F	+/-2°C	✓	✓	110mm	9 x 16mm	175 x 48 x 15mm	31/155/0
3. Long Test	-10 to +110°C&F	+/-1°C	✓	✓	210mm	14 x 25mm	290 x 55 x 15mm	31/156/0
4. Vertical Barrel	-50 to +150°C&F	+/-1°C	X	X	120mm	7 x 17mm	195 x 21 x 21mm	31/160/0
5. Horizontal Barrel	-50 to +150°C&F	+/-1°C	X	X	120mm	7 x 17mm	152 x 58 x 20mm	31/161/0
6. Waterproof	-40 to +240°C&F	+/-1°C	✓	✓	120mm	7 x 17mm	200 x 20 x 15mm	31/162/0
7. Waterproof	-50 to +300°C&F	+/-1°C	✓	✓	120mm	10 x 27mm	222 x 30 x 15mm	31/163/0
8. Waterproof	-40 to +250°C&F	+/-1°C	✓	✓	115mm	15 x 25mm	212 x 36 x 16mm	31/164/0
9. Folding Probe	-30 to +300°C&F	+/-1°C	✓	X	97mm	8 x 19mm	119 x 30 x 18mm	31/170/0
10. Hand Held	-50 to +200°C&F	+/-1°C	✓	X	1.5m	16 x 36mm	97 x 65 x 20mm	38/650/0
10. Replacement Probe	-	-	-	-	1.5m	-	-	38/650/1
11. Hand Held	-50 to +300°C&F	+/-2°C	✓	X	1.0m	16 x 36mm	97 x 65 x 20mm	38/660/0
11. Replacement Probe	-	-	-	-	1.0m	-	-	38/660/1

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Max/Min Wall Thermometers

In addition to the traditional liquid-in-glass max/min thermometers, the following is our range of electronic max/min instruments suitable for indoor or outdoor use. All these instruments have hanging hook for wall mounting. The instruments are supplied complete with battery and full instructions and can be supplied with certificate traceable to Recognised National Standard, if required. All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website.

Traceable
Calibration Certificate
upon request

Statement
of Conformity
upon request

CE
RoHS

WEEE
Compliant



1. Outdoor Electronic Max/Min Thermometer

Grey and white case with large splashproof display for outdoor or indoor use.

Range: -40 to +70°C

Accuracy*: +/-1°C

Dimensions: 115 x 75 x 44mm

LCD Dimensions: 38 x 40mm

12/424/3



2. Large Electronic Max/Min Thermometers

Robust digital max/min thermometers suitable for outdoor or indoor use in choice of white or green moulding. Triple display shows minimum, maximum and current temperature simultaneously.

Range: -10 to +40°C

Accuracy*: +/-1°C

Dimensions: 160 x 78 x 31mm

LCD Dimensions: 79 x 60mm

White - 12/426/3

Green - 12/427/3

3. Electronic Max/Min Thermometer with Roof

Attractive max/min thermometer with roof suitable for outdoor or indoor use. Triple display shows minimum, maximum and current temperature simultaneously.

Range: -10 to +50°C

Accuracy*: +/-2°C

Dimensions: 150 x 50 x 29mm

LCD Dimensions: 47 x 39mm

12/428/3



4. Classic Design Max/Min Thermometers with Roof

Max/min thermometer modelled on traditional liquid-in-glass style max/min design but with digital display. Moulding has protective roof for outdoor or indoor use. Displays current temperature and maximum and minimum temperature since last reset.

Range: -20 to +50°C

Accuracy*: +/-1°C

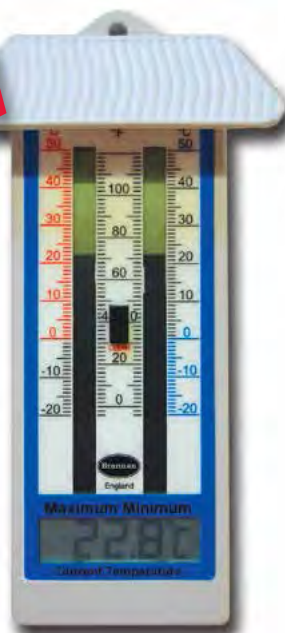
Dimensions: 203 x 100 x 30mm

LCD Dimensions: 16 x 52mm*

12/429/3

*current temperature LCD

New



Thermometer Description	Range	Basic Accuracy*	LCD Dimensions	Product Dimensions	Product Number
1. Outdoor Max/Min Thermometer	-40 to +70°C&F	+/-1°C	38 x 40mm	115 x 75 x 44mm	12/424/3
2. Large Max/Min Thermometer - White	-10 to +40°C&F	+/-1°C	79 x 60mm	160 x 78 x 31mm	12/426/3
2. Large Max/Min Thermometer - Green	-10 to +40°C&F	+/-1°C	79 x 60mm	160 x 78 x 31mm	12/427/3
3. Max/Min Thermometer with Roof	-10 to +50°C&F	+/-2°C	47 x 39mm	150 x 80 x 29mm	12/428/3
4. Classic Design Max/Min Thermometer	-20 to +50°C&F	+/-1°C	16 x 52mm	203 x 100 x 30mm	12/429/3

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Instruments with Max/Min Function

Many of our electronic instruments incorporate a max/min function. The following are examples and others are listed throughout the Digital and Electronic section of this catalogue. Probe thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity on request.

1. Max/Min Indoor/Outdoor Thermometer

White moulded case with two displays for indoor and outdoor temperatures. Display can be switched from °C to °F and have max/min recording facilities. Complete with stand and 2.5m cable for outdoor reading. Indoor Range: 0 to +50°C&F Outdoor Range: -50 to +70°C&F Accuracy*: +/-1°C between 0 and 50°C

Dimensions: 98 x 74 x 17mm
LCD Dimensions: 35 x 52mm
12/412/3



Statement of Conformity upon request

UKAS Calibration Certificate upon request

2. Short Pocket Test Thermometer

Water resistant thermometer with max/min memory and 110mm stainless steel probe. Supplied with protective pocket and clip. Range: -10 to +200°C&F Accuracy*: +/-2°C between -10 and 40°C

Dimensions: 175 x 48 x 15mm
LCD Dimensions: 9 x 16mm
31/155/0



3. Long Pocket Test Thermometer

Water resistant thermometer with 210mm stainless steel probe. Supplied with protective pocket and clip. Range: -10 to +110°C&F Accuracy*: +/-1°C between +1 and 40°C

LCD Dimensions: 14 x 25mm
Dimensions: 290 x 55 x 15mm
31/156/0



CE
RoHS

WEEE Compliant

New

4. Waterproof Test Thermometer Dishwasher safe to 88°C

Waterproof thermometer to IPX7. Suitable for use in dishwasher during cycle. With max/min memory and hold functions and 115mm stainless steel probe. Supplied with pocket case which can be connected to back of thermometer to extend handle.

Range: -40 to +250°C&F
Accuracy*: +/-1°C between -10 and 100°C
Dimensions: 212 x 36 x 16mm
LCD Dimensions: 15 x 25mm
31/164/0



5. Hand Held Thermometer with Alarm & Timer

Hand held thermometer with alarm function and twin displays. 1m cable and 235mm stainless steel probe. Data hold and max/min recording functions. Complete with hanger, stand and magnetic fixtures. Replacement probes also available.

Range: -50 to +300°C&F
Accuracy*: +/-2°C between 0 and 150°C
Dimensions: 97 x 65 x 20mm
LCD Dimensions: 16 x 36mm x 2

38/660/0
Replacement Probe - 38/660/1



Thermometer Description	Range		Basic Accuracy*	Max/Min Function	Cable/Probe	LCD Dimensions	Product Dimensions	Product Number
	Indoor	Remote						
1. Max/Min Indoor/Outdoor	0 to +50°C&F	-50 to +70°C&F	1°C	✓	2.5m	35 x 52mm	98 x 74 x 17mm	12/412/3
2. Short Test Thermometer	-10 to +200°C&F	-	2°C	✓	110mm	9 x 16mm	175 x 48 x 15mm	31/155/0
3. Long Test Thermometer	-10 to +110°C&F	-	1°C	✓	210mm	14 x 25mm	290 x 55 x 15mm	31/156/0
4. Waterproof Thermometer	-40 to +250°C&F	-	1°C	✓	115mm	15 x 25mm	212 x 36 x 16mm	31/164/0
5. Hand Held Thermometer	-	-50 to +300°C&F	2°C	✓	1.0m	16 x 36mm	97 x 65 x 20mm	38/660/0
5. Replacement Probe	-	-	-	X	1.0m	-	-	38/660/1

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Hand held digital test thermometers with probe and lead for remote reading for use where temperatures are extreme or for dual location, indoor/outdoor, etc. The instruments are supplied complete with battery and full instructions and can be supplied with UKAS calibration certificate if required. All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website. Note: All dimensions listed are for main unit only (not including probe).



1. Max/Min Indoor/Outdoor Thermometer

White moulded case with two displays for indoor and outdoor temperatures. Display can be switched from °C to °F and have max/min recording facilities.



Complete with stand and 2.5m cable for outdoor reading.
 Indoor Range: 0 to +50°C&F
 Outdoor Range: -50 to +70°C&F
 Accuracy*: +/-1°C between 0 and 50°C
 Dimensions: 98 x 74 x 17mm
 LCD Dimensions: 35 x 52mm
12/412/3

2. Weatherstation

Max/min thermometer with silvered front and black trim. Large display with simultaneous reading of temperature and humidity. Alarm functions on both temperature and humidity. Complete with stand or hook for wall hanging and 2m cable for outdoor probe.



Indoor Range: 0 to +50°C&F
 Outdoor Range: -20 to +70°C&F
 Humidity Range: 20 to 99%RH
 Accuracy*: +/-1°C between 20 and 60°C
 Dimensions: 98 x 74 x 17mm
 LCD Dimensions: 35 x 52mm
13/420/3
Replacement Probe - 13/420/4



4. Indoor/Outdoor Thermometer with Clock

Dual scale indoor/outdoor thermometer with max/min record function and clock. Complete with stand and 3m probe cable.
 Range: -50 to +70°C&F
 Accuracy*: +/-1°C between 0 and 40°C
 Dimensions: 51 x 72 x 19mm
 LCD Dimensions: 13 x 32mm
14/437/3



3. Jumbo Thermometer & Hygrometer

Twin displays to read indoor temperature and humidity or indoor and outdoor temperatures. Complete with stand and 2m cable.
 Indoor Range: -10 to +50°C&F
 Outdoor Range: -50 to +70°C&F
 Humidity Range: 20 to 99%RH
 Accuracy*: +/-1°C
 Dimensions: 103 x 98 x 21mm
 LCD Dimensions: 60 x 80mm
12/421/3



5. Digital Fridge or Freezer Thermometer

Electronic thermometer which displays fridge or freezer and room temperature. Alarm feature and 1m cable with suction pad.
 Range: -50 to +70°C&F Accuracy*: +/-1°C between 0 and 40°C
 Dimensions: 25 x 135 x 20mm LCD Dimensions: 12 x 58mm
22/400/3



6. Twin Reading Thermometer

Thermometer with max/min feature and high/low alarm settings. Ideally suited to read temperature in a fridge or freezer or outdoor and room temperature simultaneously. Magnet attachment and 2m probe cable.
 Range: -50 to +70°C&F
 Accuracy*: +/-1°C between -20 and 70°C
 Dimensions: 63 x 63 x 15mm
 LCD Dimensions: 21 x 47mm
22/420/3



* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Thermometer Description	Range			Basic Temp. Accuracy*	Max/Min Function	Cable Length	LCD Dimensions	Product Dimensions	Product Number
	Indoor	Remote	Humidity						
1. Max/Min Indoor/Outdoor	0 to +50°C&F	-50 to +70°C&F	-	+/-1°C	✓	2.5m	35 x 52mm	98 x 74 x 17mm	12/412/3
2. Weatherstation	0 to +50°C&F	-20 to +70°C&F	20 to 99%RH	+/-1°C	✓	2.0m	35 x 52mm	98 x 74 x 17mm	13/420/3
2. Replacement Probe	-	-	-	-	-	2.0m	-	-	13/420/4
3. Jumbo	-10 to +50°C&F	-50 to +70°C&F	20 to 99%RH	+/-1°C	✗	2.0m	60 x 80mm	103 x 98 x 21mm	12/421/3
4. Indoor/Outdoor	-50 to +70°C&F	-50 to +70°C&F	-	+/-1°C	✓	3.0m	13 x 32mm	51 x 72 x 19mm	14/437/3
5. Fridge or Freezer	-50 to +70°C&F	-50 to +70°C&F	-	+/-1°C	✗	1.0m	12 x 58mm	25 x 135 x 20mm	22/400/3
6. Twin Reading	-50 to +70°C&F	-50 to +70°C&F	-	+/-1°C	✓	2.0m	21 x 47mm	63 x 63 x 15mm	22/420/3

Brannan range of K-Type probes widen the temperature range of compatible products and also improve access to objects to be measured where more remote reading is required due to limited accessibility or for safety reasons. Our K-Type probes are suitable for use with customers' own appropriate instruments and a variety of **Brannan** products.

These instruments can be supplied with calibration certificate, if required.

1. K-Type Probe for Solids & Liquids

200mm stainless steel probe with 130mm handle for measuring the temperature of solids and liquids.

Range: -50 to +800°C&F*

Dimensions: 330 x 16mm diameter

38/690/0

2. K-Type Probe for Gas & Air

165mm stainless steel probe with 130mm handle for measuring the temperature of gas and air.

Range: -50 to +800°C&F*

Dimensions: 295 x 16mm diameter

38/691/0

3. K-Type Probe for Contact/Surface Use

210mm stainless steel probe with 130mm handle for contact use to measure surface temperature.

Range: -50 to +450°C&F

Dimensions: 390 x 65 x 16mm

38/692/0

4. K-Type Probe for Contact/Surface Use

K-Type set into 115mm handle for contact use to measure surface temperature where there is insufficient space for a probe.

Range: -50 to +450°C&F

Dimensions: 145 x 15mm diameter

38/693/0



Traceable
Calibration Certificate
upon request

**Statement
of Conformity**
upon request

UKAS
Calibration Certificate
upon request

Description	Range	Product Dimensions	Product Number
1. K-Type for Solids & Liquids	-50 to +800°C&F	330 x 16 x 16mm	38/690/0
2. K-Type for Gas & Air	-50 to +800°C&F	295 x 16 x 16mm	38/691/0
3. K-Type for Contact & Surface Use	-50 to +450°C&F	395 x 65 x 16mm	38/692/0
4. K-Type for Contact & Surface Use (no probe)	-50 to +450°C&F	145 x 15 x 15mm	38/693/0

* Note: the thermocouple in these devices can be used for temperatures up to +800°C&F, but for prolonged use at high temperatures and for all applications above 500°C&F, the handles should be protected against the effects of radiant heat.

Hand Held Infrared Thermometers and Instrumentation

The following range of thermometers and instrumentation detect infrared light waves from objects providing easy and safe, non-contact temperature measurement for a wide variety of applications including food storage and preparation, refrigeration, HVAC, transport and fleet maintenance.

The instruments are supplied in a protective case and come complete with battery and full instructions and can be supplied with certificate traceable to Recognised National Standard, if required.

All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website.



Statement of Conformity upon request

Traceable Calibration Certificate upon request

CE
RoHS

WEEE Compliant



1. Standard Infrared Thermometer

A simple and stable instrument providing easy and safe temperature measurement with built in laser targeting. Supplied in heavy duty protective bag.

D:S Ratio: 6:1

Range: -50 to +280°C&F

Accuracy*: +/-2°C between -20 and 280°C

Dimensions: 160 x 82 x 41.5mm

LCD Dimensions: 19 x 26mm

38/710/0



2. High Range Infrared Thermometer

Max/Min recording temperature measurement to a higher range with built in laser targeting. Supplied in heavy duty protective bag.

D:S Ratio: 10:1

Range: -50 to +550°C&F

Accuracy*: +/-2°C between -20 and 200°C

Dimensions: 160 x 82 x 41.5mm

LCD Dimensions: 19 x 26mm

38/711/0



4. Compact Infrared Thermometers

Simple and compact instruments with built in laser targeting. Choice of standard ranges.

D:S Ratio: 8:1

Range: -50 to +500°C&F **38/713/0**

Range: -30 to +260°C&F **38/714/0**

Accuracy*: +/-2°C

Dimensions: 133 x 87 x 35mm

LCD Dimensions: 17 x 20mm

3. Professional Infrared Thermometer

Infrared thermometer, with built in laser targeting, suitable for use with K-Type probe. Functions include max/min and differential average readings. Supplied in heavy duty protective bag and compatible with K-type probe.

See page 41 for our range of K-type probes.

D:S Ratio: 30:1

IR Range: -50 to +1050°C&F

IR Accuracy*: +/-2°C between -20 and 538°C

K-Type Range: -50 to +1370°C&F

K-Type Accuracy*: +/-2°C from 1000 and 1370°C

Dimensions: 230 x 100 x 56mm

LCD Dimensions: 25 x 29mm

38/712/0



Description	Range	Distance to Spot Ratio	Basic Accuracy*	Max/Min Function	LCD Dimensions	Product Dimensions	Product Number
1. Standard Infrared	-50 to +280°C&F	6:1	+/-2°C	X	19 x 26mm	160 x 82 x 41.5mm	38/710/0
2. High Range Infrared	-50 to +550°C&F	10:1	+/-2°C	✓	19 x 26mm	160 x 82 x 41.5mm	38/711/0
3. Professional Infrared	-50 to +1050°C&F (IR) -50 to +1370°C&F (K-Type)	30:1	+/-2°C	✓	19 x 26mm	230 x 100 x 56mm	38/712/0
4. Compact Infrared	-50 to +500°C&F	8:1	+/-2°C	X	17 x 20mm	133 x 87 x 35mm	38/713/0
	-30 to +260°C&F	8:1	+/-2°C	X	17 x 20mm	133 x 87 x 35mm	38/714/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

New

Hand Held Infrared Thermometers and Instrumentation

The following is **Brannan's** new range of co-ordinating infrared thermometers.

Statement of Conformity upon request

Traceable Calibration Certificate upon request

CE
RoHS

WEEE
Compliant



1. Standard Infrared Thermometer

A simple and stable instrument providing easy and safe temperature measurement using built in laser targeting. Auto power off and auto hold functions.

D:S Ratio: 8:1
Range: -20 to +320°C&F
Accuracy*: +/-2°C
Dimensions: 152 x 118 x 32mm
LCD Dimensions: 26 x 22mm
38/715/0



2. Wide Range Infrared Thermometer

A simple and stable instrument providing easy and safe temperature measurement using built in laser targeting. Auto power off and data hold functions.

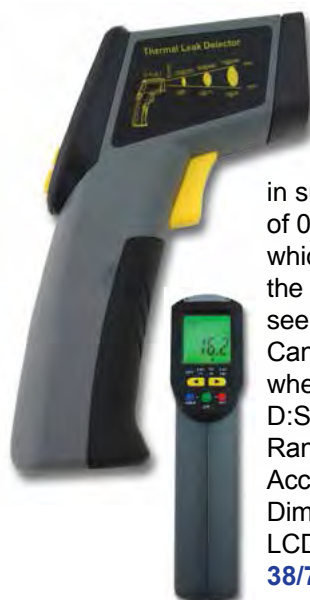
D:S Ratio: 12:1
Range: -40 to +580°C&F
Accuracy*: +/-2°C
Dimensions: 170 x 135 x 36mm
LCD Dimensions: 30 x 27mm
38/716/0



3. High Range Infrared Thermometer

High range model of the series with max/min, average and differential settings. High and low alarms settings and changeable emissivity. Laser pointer, data hold, save and delete, laser switch and max/min threshold alarm. Also has facility to record readings seen on K-type thermocouple. See page 41 for our range of K-type probes.

D:S Ratio: 12:1
IR Range: -50 to +650°C&F
K-Type Range: -99 to +1370°C&F
Accuracy*: +/-2°C
Dimensions: 170 x 135 x 36mm
LCD Dimensions: 30 x 27mm
38/717/0



4. Infrared Thermal Leak Detector

An infrared instrument, with built in laser pointer, designed to check for differences in surface temperature, checking the differences of 0.5, 3 and 5.5°C between readings. LED output which shows blue, green or red depending upon the size and direction of the thermal difference seen.

Can also be used as a simple IR thermometer when the thermal gradient is turned off.

D:S Ratio: 8:1
Range: -40 to +220°C&F
Accuracy*: +/-2°C
Dimensions: 173 x 135 x 42mm
LCD Dimensions: 30 x 27mm
38/718/0



5. Pocket Infrared Thermometer

To compliment our new range of hand held infrared thermometers, this pocket model, using built in laser pointer, is a quick and easy instrument with data hold function.

D:S Ratio: 6:1
Range: -30 to +250°C&F
Accuracy*: +/-2°C
Dimensions: 108 x 52 x 25mm
LCD Dimensions: 30 x 27mm
38/722/0

Description	Range	Distance to Spot Ratio	Basic Accuracy*	Max/Min Function	LCD Dimensions	Product Dimensions	Product Number
1. Standard Infrared	-20 to +320°C&F	8:1	+/-2°C	X	26 x 22mm	152 x 118 x 32mm	38/715/0
2. Wide Range Infrared	-40 to +580°C&F	12:1	+/-2°C	X	30 x 27mm	170 x 135 x 36mm	38/716/0
3. High Range Infrared	-50 to +650°C&F (IR) -99 to +1370°C&F (K-Type)	12:1	+/-2°C	✓	30 x 27mm	170 x 135 x 36mm	38/717/0
4. Thermal Leak Detector	-40 to +220°C&F	8:1	+/-2°C	X	30 x 27mm	173 x 135 x 42mm	38/718/0
5. Pocket Infrared	-30 to +250°C&F	6:1	+/-2°C	X	30 x 27mm	108 x 52 x 25mm	38/722/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Dual Laser Infrared Thermometers

Choice of standard or high range, dual laser infrared thermometers with precise infrared measurement using built in laser pointers and K-type input capabilities.

Functions include up to 12 point datalogger, max/min, differential average readings, trigger lock, range selection, data hold and adjustable high/low alarm.

Supplied in heavy duty protective bag and can be supplied with certification traceable to National Standards or Statement of Conformity on request.

See table for full specifications.

Accuracy*: +/-2°C

Dimensions: 192 x 97 x 59mm

LCD Dimensions: 35 x 35mm

Standard Range - 38/705/0

High Range - 38/706/0



New

Statement of Conformity upon request

Traceable Calibration Certificate upon request

CE
RoHS

WEEE Compliant

Description	IR Temperature Range	K-Type Range	Distance to Spot Ratio	Basic Accuracy*	LCD Dimensions	Product Dimensions	Product Number
Standard Range Dual Laser Infrared Thermometer	-50 to +500°C&F	-50 to +1370°C&F	13:1	+/-2°C	35 x 35mm	192 x 97 x 59mm	38/705/0
High Range Dual Laser Infrared Thermometer	-50 to +1050°C&F	-50 to +1370°C&F	30:1	+/-2°C	35 x 35mm	192 x 97 x 59mm	38/706/0

Pocket Infrared Thermometers

Range of compact, pocket infrared thermometers supplied with wrist strap for convenient use. These thermometers can be supplied with certification traceable to National Standards or Statement of Conformity on request.



1. Mini Infrared Thermometer

A hand held mini infrared thermometer with time keeping function.

D:S Ratio: 1:1

Range: -33 to +220°C&F

Accuracy*: +/-2.5°C

Dimensions: 71 x 47 x 37mm

LCD Dimensions: 14 x 22mm

38/700/0



2. Pocket Infrared Thermometer

Pocket infrared thermometer supplied with wrist strap, clip-out stand and storage pouch.

D:S Ratio: 1:1

Range: -35 to +230°C&F

Accuracy*: +/-2°C

Dimensions: 75 x 40 x 20mm

LCD Dimensions: 14 x 24mm

38/720/0

Statement of Conformity upon request

Traceable Calibration Certificate upon request

CE
RoHS

WEEE Compliant



3. Pocket Infrared with Laser Pointer

Larger pocket infrared thermometer with wrist strap. Built-in laser pointer identified target area to assist with accuracy of reading.

D:S Ratio: 6:1

Range: -30 to +270°C&F

Accuracy*: +/-2°C

Dimensions: 97 x 57 x 29mm

LCD Dimensions: 26 x 26mm

38/721/0



4. Pocket Infrared Thermometer with Laser Pointer

To compliment our new range of hand held infrared thermometers listed on page 43, this pocket model is a quick and easy measurement with data hold function and built in laser pointer.

D:S Ratio: 6:1

Range: -30 to +250°C&F

Dimensions: 108 x 52 x 25mm

LCD Dimensions: 30 x 27mm

38/722/0

New

Description	Range	Distance to Spot Ratio	Basic Accuracy*	Laser Targeting	LCD Dimensions	Product Dimensions	Product Number
1. Mini Infrared Thermometer	-33 to +220°C&F	1:1	+/-2.5°C	X	14 x 22mm	71 x 47 x 37mm	38/700/0
2. Pocket Infrared Thermometer	-35 to +230°C&F	1:1	+/-2°C	X	14 x 24mm	75 x 40 x 20mm	38/720/0
3. Pocket Infrared with Laser Pointer	-30 to +270°C&F	6:1	+/-2°C	✓	26 x 26mm	97 x 57 x 29mm	38/721/0
4. Pocket Infrared Thermometer	-30 to +250°C&F	6:1	+/-2°C	✓	30 x 27mm	108 x 52 x 25mm	38/722/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

New

CE
RoHS

WEEE
Compliant

Mini Environmental Instruments

Brannan is pleased to introduce a co-ordinating range of mini, hand held, environmental instrumentation to measure wind speed, sound levels, light, humidity and temperature. All instruments are supplied complete with battery and full instructions and can be supplied with certificate traceable to Recognised National Standard, if required. All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website.

Traceable
Calibration Certificate upon request

Statement of Conformity
upon request



1. Mini Anemometer

Wind speed meter to measure air velocity. User selectable units, max/min and data hold functions.
Measuring Range: 0.4 to 30 m/s
1.4 to 108 km/s
0.8 to 88 knots
0.9 to 67 Mph
Accuracy: +/- 3% rdg (0.3m/s)
Dimensions: 175 x 55 x 38mm
LCD Dimensions: 30 x 28mm
13/480/0



2. Mini Sound Level Meter

Mini meter to measure sound level. Max/min and data hold functions.
Measuring Range: 30 to 130dB
Accuracy: 1.4dB
Dimensions: 144 x 55 x 38mm
LCD Dimensions: 30 x 28mm
13/481/0



3. Mini Light Meter

Hand held meter to measure illuminance. Silocone photo-diode with spectral response filter. Features include max/min recording and user selectable units.
Measuring Range: 0 to 200kLux,
0 to 20kFc
Accuracy: +/- 3% rdg +/-0.5%f.s (<10kLux)
+/- 4% rdg +/-10dgts (>10kLux)
Dimensions: 171 x 55 x 38mm
LCD Dimensions: 30 x 28mm
13/482/0



4. Mini Humidity and Temperature Meter

A digital instrument which has been designed to combine the functions of a thermometer and humidity meter. Features user selectable units, max/min recording and data hold function.
Measuring Range: 0 to 100%RH
-30 to +70°C&F
Accuracy*: +/- 0.5°C / 2.5%RH
Dimensions: 166 x 55 x 38mm
LCD Dimensions: 30 x 28mm
13/483/0



Description	Range	Basic Accuracy*	Other Functions	LCD Dimensions	Product Dimensions	Product Number
1. Mini Anemometer	0.4 to 30 m/s, 1.4 to 108 km/s 0.8 to 88 knots, 0.9 to 67 Mph	+/- 3% rdg	Max/min, data hold User selectable units	30 x 28mm	175 x 55 x 38mm	13/480/0
2. Mini Sound Level Meter	30 to 130dB,	+/-1.4db	Max/min recording	30 x 28mm	144 x 55 x 38mm	13/481/0
3. Light Meter	0 to 200 klux 0 & 20 kFc	+/- 3% rdg	Max/min recording	30 x 28mm	171 x 55 x 38mm	13/482/0
4. Mini Humidity Temperature Meter	Humidity: 0 to 100%RH Temp: -30 to 70°C&F	+/- 2%RH +/- 2.5°C&F	Max/min, data hold User selectable units	30 x 28mm	166 x 55 x 38mm	13/483/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Professional Environmental Instruments

Brannan is pleased to introduce a co-ordinating range of professional, environmental instrumentation to measure wind speed, sound levels, light, humidity and temperature. All instruments are supplied in a heavy duty carry case and come complete with battery and full instructions and can be supplied with certificate traceable to Recognised National Standard, if required. All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website.

Statement of Conformity upon request

Traceable Calibration Certificate upon request



1. Professional CFM/CMM Anemometer & Thermometer

Wind speed meter to measure air velocity, air flow and air temperature. User selectable units, max/min and data hold functions.

- Air Velocity Range: 0.3 to 45.0 m/s
- 1.0 to 162 km/s
- 59 to 8858 ft/min
- 0.5 to 87.5 knots
- 0.6 to 100.6 Mph

- Velocity Accuracy: +/- 0.1
- Temperature Range: -30 to 60°C&F
- Temperature Accuracy: +/-1.5°C
- Dimensions: 185 x 66 x 33mm
- LCD Dimensions: 55 x 45mm

13/460/0



CE
RoHS

WEEE Compliant

2. Professional Sound Level Meter

Meter to measure sound level. Analogue AC/DC outputs for connection to frequency analyser or X-Y shaft recorder. Max/min recording and over/under input alarm.

- Sound Level Range: Lo: 30 to 80dB
- Med: 50 to 100dB
- Hi: 80 to 130dB
- Auto: 30 to 130dB

- Accuracy: +/- 1.4db
- Dimensions: 252 x 66 x 33mm
- LCD Dimensions: 55 x 45mm

13/461/0



3. Professional Light Meter

Precision instrument used to measure illuminance in the field. It meets CIE photopic spectral response and features PEAK capture, max/min and data hold functions and overload indicator.

- Measuring Range: 0 to 400kLux, 0 to 40kFc
- Accuracy: +/- 3% rdg +/-0.5%f.s (<10,000 Lux)
- +/- 4% rdg +/-10dpts (>10,000 Lux)
- Dimensions: 185 x 66 x 33mm
- LCD Dimensions: 55 x 45mm

13/462/0



New



4. Professional Humidity Meter and Dew Point Temperature Meter

A digital instrument which has been designed to combine the functions of a thermometer and humidity meter with dew point indicator. Features include calibration function, user selectable units, max/min recording and data hold function.
 Humidity Range: 0 to 100%RH
 Humidity Accuracy*: +/-2%RH
 Temperature Range: -35 to +100°C&F
 Temperature Accuracy*: 0.5°C
 Dew Point Temp Accuracy*: 1°C
 Dimensions: 225 x 45 x 34mm
 LCD Dimensions: 25 x 27mm
13/463/0



5. Profession 5-in-1 Environment Meter

5-in-1 meter designed to measure sound, light, wind speed, humidity and temperature, suitable for professional and home use.

Temp Range: -40 to +70°C&F
 Temp Accuracy: +/-2°C
 Humidity Range: 40 to 95%RH
 Humidity Accuracy: +/-5%RH
 Sound Meter Range: 35 to 130 dB
 Sound Meter Accuracy: +/-2dB
 Light Range: 0 to 400kLux, 0 to 40kFc
 Light Accuracy*: +/- 3% rdg +/-0.5%f.s
 Air Velocity Range: 0.3 to 45.0 m/s
 1.0 to 162 km/s
 59 to 8858 ft/min
 0.5 to 87.5 knots
 0.6 to 100.6 Mph
 Velocity Accuracy: +/- 0.3d
 Dimensions: 252 x 66 x 33mm
 LCD Dimensions: 55 x 45mm



CE
RoHS

Statement of Conformity upon request

WEEE Compliant

Traceable Calibration Certificate upon request

Description	Range	Basic Accuracy*	Other Functions	LCD Dimensions	Product Dimensions	Product Number
1. Anemometer & Thermometer	0.3 to 45 m/s, 1 to 162 km/s 59 to 8858 ft/min, 0.5 to 87.5 knots 0.6 to 100.6 Mph -30 to 60°C&F	+/- 3% rdg +/-1.5°C&F	Max/min, data hold User selectable units	55 x 45mm	185 x 66 x 33mm	13/460/0
2. Sound Level Meter	Lo: 30 to 80dB, Med: 50 to 100dB Hi: 80 to 130dB, Auto: 30 to 130dB	+/-1.4db	Max/min record Over/under input alarm	55 x 45mm	252 x 66 x 33mm	13/461/0
3. Light Meter	40 to 400 klux 0 & 40 kFc	+/- 3% rdg	Max/min, data hold PEAK capture	55 x 45mm	185 x 66 x 33mm	13/462/0
4. Dew Point Thermometer & Humidity Meter	Temp: -35 to 100°C&F Humidity: 0 to 100%RH Dew Point Temp: -35 to 100°C&F	+/- 0.5°C&F +/- 2%RH +/- 1°C&F	Max/min, data hold Calibration function	55 x 45mm	261 x 66 x 33mm	13/463/0
5. Multi Function, 5-in-1 Environment Meter	Temp: -40 to 70°C&F Humidity: 40 to 95%RH Sound: 35 to 130dB Light: 0 to 400kLux / 0 to 40kFc Air Velocity: 0.3 to 45.0 m/s 1.0 to 162 km/s 59 to 8858 ft/min 0.5 to 87.5 knots 0.6 to 100.6 Mph	+/- 2°C&F +/- 5%RH +/- 2dB +/- 3% rdg +/-3% rdg	Max/min, data hold	55 x 45mm	252 x 66 x 33mm	13/464/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Anemometers

Brannan offers a wide range of instrumentation to measure various environmental influences. The following are designed to measure wind speed. All instruments have large, easy to read LCDs and are supplied with batteries and detailed instructions. These instruments can be supplied with certificate traceable to Recognised National Standard, if required. All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website. See also Multi-Function meters on page 52.

Traceable
Calibration Certificate
upon request

CE
RoHS

WEEE
Compliant

Statement
of Conformity
upon request



1. Anemometer & Thermometer

Wind speed meter which simultaneously displays air flow and ambient temperature. High sensitivity and accuracy.

Supplied in protective case.

Range: 0 to 45 m/sec,
0 to 140 km/hour
0 to +60°C&F

Accuracy*: +/-3% rdg / +/-2°C
Dimensions: 150 x 72 x 35mm
LCD Dimensions: 45 x 55mm
13/409/0



2. CFM/CMM Anemometer & Thermometer

Wind speed meter which simultaneously displays air flow or air velocity and ambient temperature. High sensitivity and accuracy. Supplied in protective case.

Range: 0.4 to 30 m/sec

1.4 to 108 km/hour
-10 to +60°C&F

Accuracy*: +/-3% rdg / +/-2°C
Dimensions: 150 x 72 x 35mm
LCD Dimensions: 45 x 55mm
13/411/0



3. Pocket Anemometer & Thermometer

An easy to use, hand held, anemometer with wrist strap, giving accurate wind speed measurement and ambient temperature.

Range: 0 to 30 m/sec,
0 to 90 km/hour
-10 to +45°C&F

Accuracy*: +/-5% rdg / +/-2°C
Dimensions: 105 x 40 x 15mm
LCD Dimensions: 23 x 32mm
13/430/0

4. Professional CFM/CMM Anemometer & Thermometer

Wind speed meter to measure air velocity, air flow and air temperature. User selectable units, max/min and data hold functions.

Supplied in heavy duty carry case.

Range: 0.3 to 45.0 m/s
1.0 to 162 km/s
59 to 8858 ft/min
0.5 to 87.5 knots
0.6 to 100.6 Mph
-30 to 60°C&F

Accuracy*: +/- 0.1 / +/-1.5°C
Dimensions: 185 x 66 x 33mm
LCD Dimensions: 55 x 45mm
13/460/0



5. Mini Anemometer

Compact wind speed meter. Functions include user selectable units, max/min and data hold.

Range: 0.4 to 30 m/s
1.4 to 108 km/s
0.8 to 88 knots
0.9 to 67 Mph

Accuracy*: +/- 3% rdg (0.3m/s)
Dimensions: 175 x 55 x 38mm
LCD Dimensions: 30 x 28mm
13/480/0



New

Description	Measurement Ranges			Basic Accuracy*	LCD Dimensions	Product Dimensions	Product Number
	Wind Speed	Temperature					
1. Anemometer & Thermometer	0 to 45 m/sec 0 to 140 km/hour	-10 to 60°C&F		+/- 3% rdg +/- 2°C	45 x 55mm	150 x 72 x 35mm	13/409/0
2. CFM/CMM Anemometer & Thermometer	0.4 to 30 m/sec 1.4 to 108 km/hour	-10 to 60°C&F		+/- 3% rdg +/- 2°C	45 x 55mm	150 x 72 x 35mm	13/411/0
3. Pocket Anemometer & Thermometer	0 to 30 m/sec 0 to 90 km/hour	-10 to 45°C&F		+/- 5% rdg +/- 2°C	23 x 32mm	105 x 40 x 15mm	13/430/0
4. Professional Anemometer & Thermometer	0.3 to 45 m/s 0.5 to 87.5 knots 0.6 to 100.6 Mph	1 to 162 km/s 59 to 8858 ft/min	-30 to 60°C&F	+/- 3% rdg +/-1.5°C&F	55 x 45mm	185 x 66 x 33mm	13/460/0
5. Mini Anemometer	0.4 to 30 m/s 0.8 to 88 knots	1.4 to 108 km/s 0.9 to 67 Mph	-	+/- 3% rdg	30 x 28mm	175 x 55 x 38mm	13/480/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Sound Level Meters

Brannan offers a wide range of instrumentation to measure various environmental influences. The following are designed to monitor sound levels such as traffic and workplace machinery. All instruments have large, easy to read LCDs and are supplied with batteries and detailed instructions. These instruments can be supplied with certificate traceable to Recognised National Standard, if required. All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website. See also Multi-Function meters on page 52.

Statement of Conformity upon request

Traceable Calibration Certificate upon request

CE
RoHS
WEEE Compliant



1. Sound Meter
Electronic sound meter with background noise absorber mode to filter ambient sounds and incorporates a max/min record and max hold function. Supplied in heavy duty protective case.
Range: Lo - 30 to 100 dB
Hi - 60 to 130 dB
Accuracy: +/- 1.5dB
Dimensions: 210 x 55 x 32mm
LCD Dimensions: 27.5 x 37.5mm
13/412/0

2. Compact Sound Meter
Easy to use mini sound meter for monitoring sound levels in noisy environments. It incorporates a max/min record and max hold function.
Range: 40 to 130 dB
Accuracy: +/- 3.5dB
Dimensions: 128 x 54 x 34mm
LCD Dimensions: 20 x 24mm
13/413/0



3. Professional Sound Level Meter

New

Meter to measure sound level. Analogue AC/DC outputs for connection to frequency analyzer or X-Y shaft recorder. Max/min recording and over/under input alarm. Supplied in heavy duty carry case.
Sound Level Range: Lo: 30 to 80dB
Med: 50 to 100dB
Hi: 80 to 130dB
Auto: 30 to 130dB



Accuracy: +/- 1.4dB
Dimensions: 252 x 66 x 33mm
LCD Dimensions: 55 x 45mm
13/461/0



4. Mini Sound Level Meter

New

Mini meter to measure sound level. Max/min and data hold functions. Measuring Range: 30 to 130dB
Accuracy: 1.4dB
Dimensions: 144 x 55 x 38mm
LCD Dimensions: 30 x 28mm
13/481/0



Description	Range	Basic Accuracy*	Other Functions	LCD Dimensions	Product Dimensions	Product Number
1. Sound Meter	Lo: 30 to 100 dB Hi: 60 to 130 dB	+/-1.5db	Background noise absorber	27.5 x 37.5mm	210 x 55 x 32mm	13/412/0
2. Pocket Sound Meter	40 to 130 dB	+/-3.5db		20 x 24mm	128 x 54 x 34mm	13/413/0
3. Professional Sound Level Meter	Lo: 30 to 80dB, Med: 50 to 100dB Hi: 80 to 130dB, Auto: 30 to 130dB	+/-1.4db	Max/min record Over/under input alarm	55 x 45mm	252 x 66 x 33mm	13/461/0
4. Mini Sound Level Meter	30 to 130dB,	+/-1.4db	Max/min recording	30 x 28mm	144 x 55 x 38mm	13/481/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Light Meters

Brannan offers a wide range of instrumentation to measure various environmental influences. The following are designed to monitor illuminance in the field. All instruments have large, easy to read LCDs and are supplied with batteries and detailed instructions. These instruments can be supplied with certificate traceable to Recognised National Standard, if required. All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website. See also Multi-Function meters on page 52.

CE
RoHS

WEEE
Compliant

Statement of Conformity upon request

Traceable Calibration Certificate upon request



New

1. Light Meter

Precision instrument used to measure light levels. It meets CIE photopic spectral response and is fully corrected for angular incidence of light. Supplied in protective case.

Light Meter Range: 40, 400 & 4000 lux
40 & 300 Klux
40, 400 & 4000 fc
30 Kfc

Accuracy*: +/- 5% rdg
Dimensions: 170 x 80 x 40mm
LCD Dimensions: 47 x 57mm

13/406/0

3. Professional Light Meter

Precision instrument used to measure illuminance in the field. It meets CIE photopic spectral response and features PEAK capture, max/min and data hold functions and overload indicator. Supplied complete with heavy duty carry case.

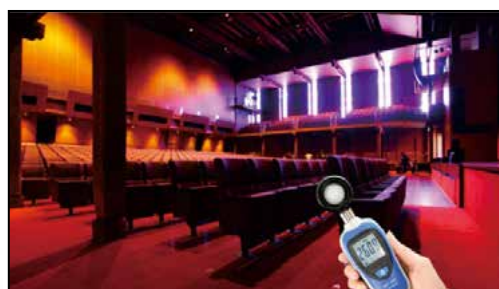
Measuring Range: 0 to 400kLux,
0 to 40kFc

Accuracy: +/- 3% rdg +/-0.5%f.s (<10,000 Lux)
+/- 4% rdg +/-10dgts (>10,000 Lux)

Dimensions: 185 x 66 x 33mm
LCD Dimensions: 55 x 45mm

13/462/0

New



3. Mini Light Meter

Hand held meter to measure illuminance. Silicone photo-diode with spectral response filter. Features include max/min recording and user selectable units.

Measuring Range: 0 to 200kLux,
0 to 20kFc

Accuracy: +/- 3% rdg +/-0.5%f.s (<10kLux)
+/- 4% rdg +/-10dgts (>10kLux)

Dimensions: 171 x 55 x 38mm
LCD Dimensions: 30 x 28mm

13/482/0



Description	Range	Basic Accuracy*	Other Functions	LCD Dimensions	Product Dimensions	Product Number
1. Light Meter	40, 400 & 4000 Lux 40 & 300 kLux 40, 400 & 4000 Fc, 30 kFc	+/-5% rdg	Data and max hold	47 x 57mm	170 x 85 x 40mm	13/406/0
2. Professional Light Meter	40 to 400 kLux 0 & 40 kFc	+/- 3% rdg	Max/min, data hold PEAK capture	55 x 45mm	185 x 66 x 33mm	13/462/0
3. Mini Light Meter	0 to 200 kLux 0 & 20 kFc	+/- 3% rdg	Max/min recording	30 x 28mm	171 x 55 x 38mm	13/482/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Humidity and Temperature Meters

Brannan offers a wide range of instrumentation to measure various environmental influences. The following are designed to measure temperature and relative humidity. All instruments have large, easy to read LCDs and are supplied with batteries and detailed instructions. These instruments can be supplied with certificate traceable to Recognised National Standard, if required. All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website.

See also Multi-Function meters on page 52.

Traceable
Calibration Certificate
upon request

Statement
of Conformity
upon request



1. Humidity Meter & Thermometer

This instrument measures relative humidity and air temperature. The LCD has a backlight and includes primary and secondary displays. Supplied with carry case and K-type beaded wire thermocouple suitable for use with temperatures up to 300°C&F. For information on K-Type probes suitable for use with this instrument, please see page 41.

Temp Range: -20 to +1000°C&F
Humidity Range: 0.2 to 100%RH
Accuracy*: +/-4°C / +/- 3.5%RH
Dimensions: 170 x 85 x 40mm
LCD Dimensions: 47 x 57mm
13/405/0

2. Humidity Meter with Dew Point & Thermometer

A digital instrument which has been designed to combine the functions of a thermometer and humidity meter with dew point indicator.

Temp Range: -30 to +100°C&F
Humidity Range: 0 to 100%RH
Accuracy*: +/-0.5°C / +/- 2%RH
Dimensions: 225 x 45 x 34mm
LCD Dimensions: 25 x 27mm
13/407/0



4. Professional Humidity and Dew Point Temperature Meter

A digital instrument which has been designed to combine the functions of a thermometer and humidity meter with dew point indicator.

Features include calibration function, user selectable units, max/min recording and data hold function.
Humidity Range: 0 to 100%RH
Humidity Accuracy*: +/-2%RH
Temperature Range: -35 to +100°C&F
Temperature Accuracy*: 0.5°C
Dew Point Temp Accuracy*: 1°C
Dimensions: 225 x 45 x 34mm
LCD Dimensions: 25 x 27mm
13/463/0

New



New



4. Mini Humidity and Temperature Meter

A digital instrument which has been designed to combine the functions of a thermometer and humidity meter. Features user selectable units, max/min recording and data hold function.
Measuring Range: 0 to 100%RH
-30 to +70°C&F

Accuracy*: +/- 0.5°C / 2.5%RH
Dimensions: 166 x 55 x 38mm
LCD Dimensions: 30 x 28mm
13/483/0

CE
RoHS
WEEE
Compliant

Description	Range	Basic Accuracy*	Other Functions	LCD Dimensions	Product Dimensions	Product Number
1. Humidity Meter & Thermometer	Temp: -20 to 1000°C&F Humidity: 0.2 to 100%RH	+/-4°C +/-3.5%RH	Data and max hold Carry case included	47 x 57mm	170 x 85 x 40mm	13/405/0
3. Dew Point Humidity Meter & Thermometer	Temp: -30 to 100°C&F Humidity: 0 to 100%RH	+/-0.5°C +/-2%RH	Data and max hold HD case included	25 x 27mm	225 x 45 x 34mm	13/407/0
4. Dew Point Thermometer & Humidity Meter	Temp: -35 to 100°C&F Humidity: 0 to 100%RH Dew Point Temp: -35 to 100°C&F	+/- 0.5°C&F +/- 2%RH +/- 1°C&F	Max/min, data hold Calibration function HD case included	55 x 45mm	261 x 66 x 33mm	13/463/0
4. Mini Humidity Temperature Meter	Humidity: 0 to 100%RH Temp: -30 to 70°C&F	+/- 2%RH +/- 2.5°C&F	Max/min, data hold User selectable units	30 x 28mm	166 x 55 x 38mm	13/483/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Multi Function Environmental Meters

Brannan offers a wide range of instrumentation to measure various environmental influences. The following are designed to monitor a variety of effects in the field in one, convenient instrument. Both instruments have large, easy to read LCDs and are supplied with batteries and detailed instructions. These instruments can be supplied with certificate traceable to Recognised National Standard, if required. All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website.

1. 4-in-1 Environment Meter

Multi meter designed to measure sound, light, humidity and temperature, suitable for professional and home use. Supplied with protective case. For information on K-Type probes suitable for use with this instrument, please see page 41.

- K-Type Range: -20 to +750°C&F
- Temp Accuracy*: +/-2°C
- Humidity Range: 25 to 95%RH
- Humidity Accuracy*: +/-5%RH
- Sound Range: 35 to 130 dB
- Sound Accuracy*: +/-3.5dB
- Light Meter Range: 20 to 20,000 Lux
- Light Accuracy*: +/- 5% rdg
- Dimensions: 252 x 64 x 32.5mm
- LCD Dimensions: 30 x 50mm

13/408/0



New



2. 5-in-1 Environment Meter

5-in-1 meter designed to measure sound, light, wind speed, humidity and temperature, suitable for professional and home use. Supplied in heavy duty carry case.

- Temp Range: -40 to +70°C&F
- Temp Accuracy: +/-2°C
- Humidity Range: 40 to 95%RH
- Humidity Accuracy: +/-5%RH
- Sound Meter Range: 35 to 130 dB
- Sound Meter Accuracy: +/-2dB
- Light Range: 0 to 400kLux, 0 to 40kFc
- Light Accuracy*: +/- 3% rdg +/-0.5%.s
- Air Velocity Range: 0.3 to 45.0 m/s, 1.0 to 162 km/s, 59 to 8858 ft/min, 0.5 to 87.5 knots, 0.6 to 100.6 Mph
- Velocity Accuracy: +/- 0.3d
- Dimensions: 252 x 66 x 33mm
- LCD Dimensions: 55 x 45mm

13/464/0



Statement of Conformity upon request

Traceable Calibration Certificate upon request

CE
RoHS

WEEE
Compliant

Description	Range	Basic Accuracy*	Other Functions	LCD Dimensions	Product Dimensions	Product Number
1. Multi Function, 4-in-1 Environment Meter	Temp: -20 to 750°C&F Humidity: 25 to 95%RH Sound: 35 to 130dB Light: 20, 200 & 2000 & 20,000 lux	+/-2°C +/-5%RH +/-3.5dB +/-5% rdg	Max/min, data hold	30 x 50mm	252 x 64 x 32.5mm	13/408/0
2. Multi Function, 5-in-1 Environment Meter	Temp: -40 to 70°C&F Humidity: 40 to 95%RH Sound: 35 to 130dB Light: 0 to 400kLux / 0 to 40kFc Air Velocity: 0.3 to 45.0 m/s 1.0 to 162 km/s 59 to 8858 ft/min 0.5 to 87.5 knots 0.6 to 100.6 Mph	+/- 2°C&F +/- 5%RH +/- 2dB +/- 3% rdg +/-3% rdg	Max/min, data hold	55 x 45mm	252 x 66 x 33mm	13/464/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

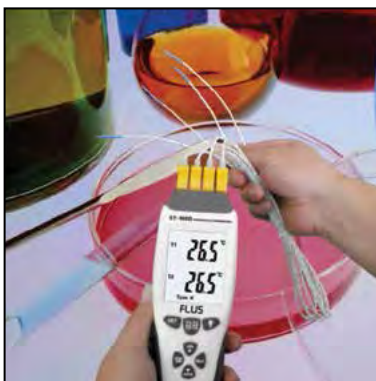
Thermocouple Thermometers

Brannan thermocouple instruments are supplied complete with basic probe. Some models are also compatible with our range of K-type probes to extend temperature measurements. These instruments have large, easy to read LCDs and are supplied with batteries and detailed instructions. These instruments can be supplied with certificate traceable to Recognised National Standard, if required. All electronic instruments are CE, WEEE and RoHS compliant. Full certification is available via our website.



1. Waterproof PT100 Thermometer

A high accuracy, waterproof (IP67) thermometer with PT100 probe for a wide range of demanding applications. Max/Min/Avg operations. 120mm probe with 1100mm cable.
 Range: -100 to +300°C&F
 Accuracy*: +/-0.4°C&F
 Dimensions: 150 x 66 x 31mm
 LCD Dimensions: 40 x 40mm
38/670/0



2. Thermocouple Thermometer

A compact and portable digital thermometer designed to use an external K-type thermocouple as a temperature sensor. Readout in °C, °F or Kelvin. Supplied complete with carry case, and basic K-type beaded wire thermocouple suitable for use with temperatures up to 300°C. Compatible with all **Brannan** K-Type probes. Please see page 41 of this catalogue.
 Range: -50 to +1300°C&F
 Accuracy*: +/-1°C&F
 Dimensions: 170 x 80 x 40mm
 LCD Dimensions: 47 x 57mm
38/680/0



3. K-Type/J-Type 4-Input Thermocouple Thermometer

A professional instrument with 4 inputs providing up to 4 simultaneous readings from J-Type or K-type thermocouple sensors. Readout in °C, °F or Kelvin. Supplied complete with carry case and basic K-type beaded wire thermocouples. Compatible with all **Brannan** K-Type probes. Please see page 41 of this catalogue.
 This instrument co-ordinates with our Professional Environmental Range (see pages 44-45).
 Range: -200 to +1372°C&F
 Accuracy*: +/-1°C&F
 Dimensions: 184 x 66 x 33mm
 LCD Dimensions: 55 x 45mm
38/685/0

New



Description	Range	Basic Accuracy*	Included Probe	LCD Dimensions	Product Dimensions	Product Number
1. Waterproof PT100 Thermometer	-100 to 300°C&F	+/-0.4°C	PT100	40 x 40mm	150 x 66 x 31mm	38/670/0
2. K-Type Thermocouple Thermometer	-50 to 1300°C&F	+/-1°C	1 x K-Type	47 x 57mm	170 x 80 x 40mm	38/680/0
3. K-type / J-Type 4-Input Thermocouple Thermometer	-200 to 1372°C&F	+/-1°C	4 x K-Type	55 x 45mm	184 x 66 x 33mm	38/685/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Introducing a range of digital USB data loggers suitable for many applications.

These easy to use data loggers connect directly into the USB port of a PC.

The free Windows software for set-up and data download is both streamlined and easy to use. Choose a logger name, sample rate, alarm levels and start mode before recording.

After data has been collected, it can be graphed or exported to Excel for further analysis.

Each data logger is supplied with a battery and features red/green LEDs to indicate data logging status.

Some models include an LCD and push-button to show the most recent maximum and minimum recordings while logging. Most temperature & humidity data loggers also provide waterproof protection (IP67) for outdoor use.

All data loggers are compatible with Windows 8, 7, 2000, XP and Vista, and

include long-life lithium battery and operating instructions.

These instruments can be supplied with UKAS Calibration Certificate or Statement of Conformity on request.

All electronic instruments are CE, WEEE and RoHS compliant.

New

Statement
of Conformity
upon requestTraceable
Calibration Certificate
upon requestUKAS
Calibration Certificate
upon request

1. USB-Lite

Low cost data logger with fixed 30 minute sample rate and status indication via red and green LEDs.

Max Readings Stored: 4,080

Range: -10 to +50°C&F

Dimensions: 68 x 18.5 x 6mm

Accuracy*: +/-2.5°C&F

38/750/0



2. Temperature Data Logger

Temperature data logger with flashing red, green and orange LEDs to indicate status.

Selectable parameters include logging rate, measurements units, high and low alarms and start time.

Max Readings Stored: 16,382

Range: -35 to +80°C&F

Dimensions: 98 x 27 x 26mm

Accuracy*: +/-1°C&F

38/751/0

CE
RoHSWEEE
Compliant

3. Temperature Data Logger with LCD

Temperature data logger with high contrast LCD. At the touch of a button the user can cycle between the current, maximum and minimum stored temperatures.

Max Readings Stored: 16,382

Range: -35 to +80°C&F

Accuracy*: +/-0.5°C&F

Dimensions: 119 x 25 x 22mm

LCD Dimensions: 8 x 22mm

38/752/0



4. K, J and T-Type Thermocouple Temperature Data Logger

K, J or T-Type thermocouple data logger, supplied with a basic K-type thermocouple for measurements of 0 to 400°C. Also compatible with **Brannan** range of K-Type probes. Please see page 41 of this catalogue.

Max Readings Stored: 32,000

K-Type Range: -200 to +1550°C&F

J-Type Range: -200 to +1190°C&F

T-Type Range: -200 to +390°C&F

Accuracy*: +/-1°C&F

Dimensions: 118 x 26 x 26mm

38/753/0



5. K, J and T-Type Thermocouple Temperature Data Logger with LCD

K, J or T-Type thermocouple data logger with LCD and basic K-type thermocouple for temperature measurements of 0 to 400°C. Also compatible with **Brannan** range of K-Type probes. Please see page 41 of this catalogue.

Max Readings Stored: 32,000

K-Type Range: -200 to +1550°C&F

J-Type Range: -200 to +1190°C&F

T-Type Range: -200 to +390°C&F

Accuracy*: +/-1°C&F

Dimensions: 134 x 24 x 21mm

LCD Dimensions: 8 x 22mm

38/754/0



6. Temperature & Humidity Data Logger

Relative humidity, temperature and dew point data logger.

Max Readings Stored: 16,382

Temp Range: -35 to +80°C&F

Humidity Range: 0 to 100%RH

Accuracy*: +/-0.5°C&F / 3%RH

Dimensions: 103 x 27 x 26mm

38/755/0

7. USB Temperature & Humidity Data Logger with increased accuracy

As model 38/755/0 but with increased accuracy.

Max Readings Stored: 16,382
 Temp Range: -35 to +80°C&F
 Humidity Range: 0 to 100%RH
 Accuracy*: +/-0.3°C&F / 2%RH
 Dimensions: 103 x 27 x 26mm
38/756/0



8. Temperature & Humidity Data Logger with LCD

Temperature and humidity data logger with high contrast LCD.

Max Readings Stored: 16,382
 Temp Range: -35 to +80°C&F
 Humidity Range: 0 to 100%RH
 Accuracy*: +/-0.3°C&F / 2%RH
 Dimensions: 126 x 25 x 22mm
 LCD Dimensions: 8 x 22mm
38/757/0



9. Heavy Duty Temperature Data Logger with Extended Measuring Range

Stainless steel temperature data logger measuring to an extended range to the standard data loggers.

Max Readings Stored: 32,510
 Temp Range: -40 to +125°C&F
 Accuracy*: +/-0.2°C&F
 Dimensions: 110 x 18 x 18mm
38/758/0



Data Logger Description	Range	Basic Accuracy*	No of Readings	K-Type Probe Compatible	LCD Dimensions	Product Dimensions	Product Number
1. USB-Lite Logger	Temp: -10 to 50°C&F	+/-2.5°C&F	4,080	-	-	68 x 18.5 x 6mm	38/750/0
2. Temperature Logger	Temp: -35 to 80°C&F	+/-1.0°C&F	16,382	-	-	98 x 27 x 26mm	38/751/0
3. Temperature Logger with LCD	Temp: -35 to 80°C&F	+/-0.5°C&F	16,382	-	8 x 22mm	98 x 27 x 26mm	38/752/0
4. K, J and T-Type Temperature Logger	K-Type: -200 to 1550°C&F J-Type: -200 to 1190°C&F T-Type: -200 to 390°C&F	+/-1.0°C&F	32,000	✓	-	118 x 26 x 26mm	38/753/0
5. K, J and T-Type Temperature Logger with LCD	K-Type: -200 to 1550°C&F J-Type: -200 to 1190°C&F T-Type: -200 to 390°C&F	+/-1.0°C&F	32,000	✓	8 x 22mm	134 x 24 x 21mm	38/754/0
6. Temperature & Humidity Logger	Temp: -35 to 80°C&F Humidity: 0 to 100%RH	+/-0.5°C&F	16,382	-	-	103 x 27 x 26mm	38/755/0
7. Temperature & Humidity Logger with increased Accuracy	Temp: -35 to 80°C&F Humidity: 0 to 100%RH	+/-0.3°C&F	16,382	-	-	103 x 27 x 26mm	38/756/0
8. Temperature & Humidity Logger with LCD	Temp: -35 to 80°C&F Humidity: 0 to 100%RH	+/-0.3°C&F	16,382	-	8 x 22mm	126 x 25 x 22mm	38/757/0
9. Heavy Duty S/S Temperature Logger	Temp: -40 to 125°C&F	+/-0.2°C&F	32,510	-	-	110 x 18 x 18mm	38/758/0

* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

Hand Held Programmer and Data Collector for USB Data Logger Range

This data pad allows data loggers user to configure units, download data and view logging results on-the-spot. This allows continual logging with shorter breaks in data collection, less travel for the user and on-site data collection in graph, legend and summary format.

Collects and stores up to 500 data loggers. Supplied with rechargeable internal lithium battery providing up to 8 hours use.

Dimensions: 107 x 68 x 19mm
 LCD Dimensions: 60 x 45mm
38/760/0



Wide range of timers which can be used in a variety of applications. All models are supplied with batteries and operating instructions. All electronic instruments are CE, WEEE and RoHS compliant..

Statement of Conformity upon request



1. Heavy Duty Timer
99 min, 59 sec count down and up timer switchable to 19 hr/59 min. Complete with stand, clip and magnetic fixings.
Dimensions: 70 x 47 x 30mm
LCD Dimensions: 18 x 30mm
28/202/0



2. Large Timer
99 min, 59 sec count down and up timer. With stand, clip, hanging hook and magnetic fixings.
Dimensions: 70 x 80 x 20mm
LCD Dimensions: 38 x 64mm
28/203/0



3. Numeric Setting Timer & Clock
9 hr, 59 min, 59 sec timer and clock. Count down and up with memory function. 12/24 hour clock. With stand and magnetic fixings.
Dimensions: 65 x 75 x 25mm
LCD Dimensions: 20 x 60mm
28/204/0



4. Mini Timer
99 min, 59 sec count down timer with memory function. Complete with stand, clip and magnetic fixings.
Dimensions: 55 x 55 x 25mm
LCD Dimensions: 12 x 27mm
28/205/0



5. Dual Timer
23 hr, 59 min, 59 sec count down and up timer with memory function and 12/24 hr clock. With clip and magnetic fixings.
Dimensions: 53 x 68 x 14mm
LCD Dimensions: 24 x 35mm
28/206/0



6. Triple Timer
3 x 20 hr countdown timers with clock and memory function. Count up timer in 1/100 sec. 12/24 hr clock. Stand and magnetic fixings.
Dimensions: 86 x 56 x 22mm
LCD Dimensions: 45 x 40mm
28/207/0



7. Jumbo Dual Timer & Clock
2 x 24 hr clock and timer. Count down and 20 hr count up timer with memory function. Bottom folds out to enable timer to stand unsupported. Also has bracket for wall mounting.
Dimensions: 140 x 95 x 20mm
LCD Dimensions: 75 x 63mm
28/208/0



8. Timer & Clock
99 min, 59 sec count down and up timer with 12 hr clock, alarm and memory function. Complete with stand, hanger and magnetic fixings.
Dimensions: 66 x 76 x 20mm
LCD Dimensions: 20 x 48mm
28/210/0



9. Dual Timer & Clock

Two 24 hour count down timers. 12/24 hour clock. Magnetic back clip and stand.

Dimensions: 50 x 60 x 12mm
LCD Dimensions: 12 x 32mm
28/211/0



10. Four Way Timer & Clock

Four timers in one compact unit. 24 hour count down and up. 12/24 hr clock.

Magnetic back clip and stand.
Dimensions: 62 x 75 x 15mm
LCD Dimensions: 22 x 50mm
28/212/0



11. Slimline Timer

Easy to use 99 min, 59 sec count down and up timer with magnetic fixing.

Dimensions: 88 x 48 x 18mm
LCD Dimensions: 12 x 34mm
28/213/0



12. Triple Timer & Clock

Three x 20 hr count down and up timer and 12/24 hr clock. Stand and magnetic fixing.

Dimensions: 92 x 69 x 13mm
LCD Dimensions: 45 x 41mm
28/214/0



13. Bench Top Timer

Easy to use bench top timers particularly suited for use in schools. They have colour coded buttons and clear LCD display, housed in a robust ABS casing and are available with and without contacts for external triggering. The timers are highly accurate and have count up with lap and split timing features.

Timing period 9 hr, 59 min, 59 sec.
Dimensions: 90 x 100 x 70.5mm
LCD Dimensions: 20 x 64mm

With External Triggering Contacts 28/410/0

Without External Triggering Contacts 28/411/0



WEEE Compliant

Timer Description	Time	No of Timers	Count Up & Down	Fixings	LCD Dimensions	Product Dimensions	Product Number
1. Heavy Duty Timer	99 min, 59 sec / 19 hr, 59 min	1	✓	Magnet & clip	18 x 30mm	70 x 47 x 30mm	28/202/0
2. Large Timer	99 min, 59 sec	1	✓	Magnet	38 x 64mm	70 x 80 x 20mm	28/203/0
3. Numeric Setting Timer	9 hr, 59 min, 59 Sec	1	✓	Magnet	20 x 60mm	65 x 75 x 25mm	28/204/0
4. Mini Timer	99 Min, 59 Sec	1	Down only	Magnet & clip	12 x 27mm	55 x 55 x 25mm	28/205/0
5. Dual Timer	23 hr, 59 min, 59 sec	2	✓	Magnet & clip	24 x 35mm	53 x 68 x 14mm	28/206/0
6. Triple Timer	23 hr, 59 min, 59 sec	3	✓	Magnet	45 x 40mm	86 x 56 x 22mm	28/207/0
7. Jumbo Dual Timer	23 hr, 59 min, 59 sec	2	✓	Wall mountable	75 x 63mm	140 x 95 x 20mm	28/208/0
8. Timer	99 min, 59 sec	1	✓	Hook & magnet	20 x 48mm	66 x 76 x 20mm	28/210/0
9. Dual Timer	9 hr, 59 min, 59 sec	2	✓	Magnetic back clip	12 x 32mm	50 x 60 x 12mm	28/211/0
10. Four Way Timer	23 hr, 59 min, 59 sec	4	✓	Magnetic back clip	22 x 50mm	62 x 75 x 15mm	28/212/0
11. Slimline Timer	99 min, 59 sec	1	✓	Magnet	12 x 34mm	88 x 48 x 18mm	28/213/0
12. Triple Timer	23 hr, 59 min, 59 sec	3	✓	Magnet	45 x 41mm	92 x 69 x 13mm	28/214/0
13. Bench Top Timer with External Contacts	9 hr, 59 min, 59 Sec	1	✓	Stands on desk	20 x 64mm	90 x 100 x 70.5mm	28/410/0
13. Bench Top Timer without External Contacts	9 hr, 59 min, 59 Sec	1	✓	Stands on desk	20 x 64mm	90 x 100 x 70.5mm	28/410/0

Stopwatches

Choice of three stopwatches. All models are supplied with batteries and operating instructions. All electronic instruments are CE, WEEE and RoHS compliant.

Statement of Conformity upon request



1. Sports Stopwatch
1/100 second stopwatch with lap counter, calendar, time and alarm. Complete with hanging cord.
Max Count: 99:99:99
Dimensions: 79 x 59 x 16mm
LCD Dimensions: 12 x 27mm
28/400/0



2. Water Resistant Stopwatch
1/100 second water resistant (1ATM) stopwatch with lap counter, calendar, time and alarm. Complete with hanging cord.
Max Count: 99:99:99
Dimensions: 71 x 63 x 20mm
LCD Dimensions: 16 x 32mm
28/401/0



3. Standard Stopwatch
1/100 second stopwatch with lap counter, calendar, time and alarm. Complete with hanging cord.
Max Count: 99:99:99
Dimensions: 66 x 52 x 17mm
LCD Dimensions: 9 x 21mm
28/402/0

Description	Max Count	LCD Dimensions	Product Dimensions	Product Number
1. Sports Stopwatch	99:99:99	12 x 27mm	79 x 59 x 16mm	28/400/0
2. Waterproof Stopwatch	99:99:99	16 x 32mm	71 x 63 x 20mm	28/401/0
3. Standard Stopwatch	99:99:99	9 x 21mm	66 x 52 x 17mm	28/402/0

CE
RoHS

WEEE
Compliant

Tally Counters



1. Hand Held Analogue Tally Counter
Stainless steel tally counter with finger holder. Counts from 0 to 9999 in clear white numbers on black background. Resets by turning knob.
Dimensions: 48 x 54 x 37mm
Count Dimensions: 6 x 18mm
28/501/0

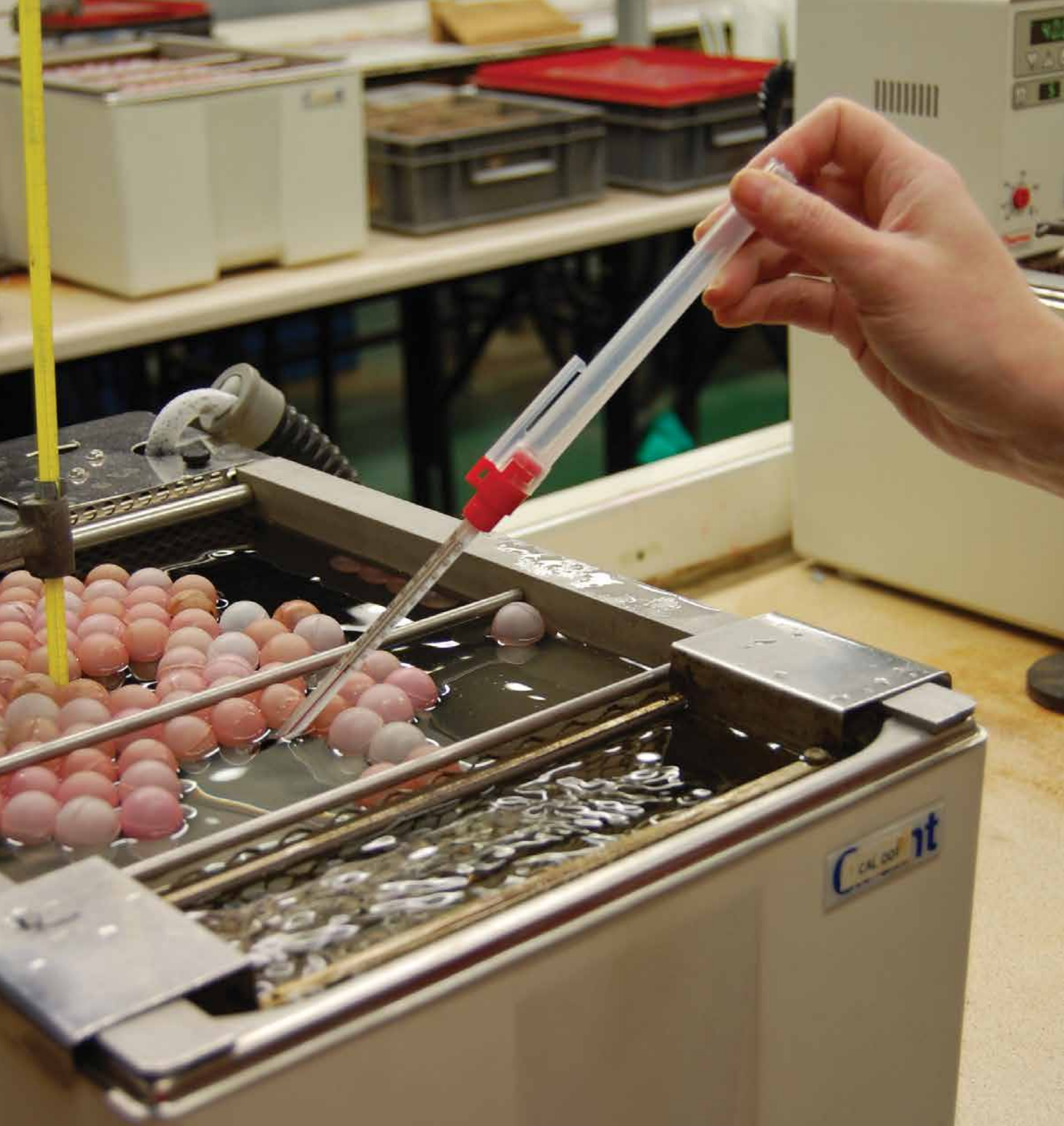


2. Desk Top Analogue Tally Counter
Stainless steel tally counter with metal stand which can be fixed securely to desk or table using the three screw holes. Counts from 0 to 9999 in clear white numbers on black background. Resets by turning knob.
Dimensions: 63 x 55.5 x 55.5mm
Count Dimensions: 6 x 18mm
28/502/0



1. Hand Held Digital Tally Counter
Digital tally counter with finger holder and robust plastic housing. Counts from 0 to 99999 on clear LCD. Push button reset.
Dimensions: 50 x 46 x 35mm
LCD Dimensions: 8 x 22mm
28/503/0

Description	Count	Analogue/Digital	Reset	Reading Dimensions	Product Dimensions	Product Number
1. Hand Held Tally Counter	0 to 9999	Analogue	Knob turn	6 x 18mm	48 x 54 x 37mm	28/501/0
2. Desk Top Tally Counter	0 to 9999	Analogue	Knob turn	6 x 18mm	63 x 55.5 x 55.5mm	28/502/0
3. Hand Held Tally Counter	0 to 99999	Digital	Push button	8 x 22mm	50 x 46 x 22mm	28/503/0



Special Application Instrumentation

Max Min Thermometers
Refrigeration Thermometers
Hygrometers

Wall Thermometers
Pocket Test Thermometers

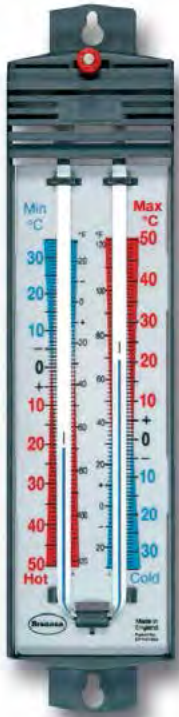
Brannan



Increasing environmental and health concerns have encouraged the development of these unique **mercury free** maximum minimum thermometers which replace the traditional mercury types, the standard design for over two hundred years. The products use a patented blue coloured liquid to replace the mercury but retain the ease of operation of the mercury instruments. These Max/Min thermometers can be supplied with certificate traceable to Recognised National Standard or Statement of Conformity, if required.

Traceable
Calibration Certificate
upon request

**Statement
of Conformity**
upon request



1. Magnet Reset Max/Min
A modern design with red, blue and black coloured scale in moulded grey plastic. Separate magnet reset and hanging hook on top and bottom of instrument.
Range: -35 to +50°C&F
Dimensions: 250 x 60 x 27mm
12/401/3 (°C&F)
12/401/2 (°C only)



2. Heavy Duty Push Button Max/Min
A robust design with bulbs fully protected and reset by press button. black scale on a white background enclosed in a green case. Includes hanging hook at back of instrument.
Range: -35 to +50°C&F
Dimensions: 200 x 67 x 23mm
12/404/3 (°C&F)
12/404/2 (°C only)



4. Max/Min with Lid
Traditional design with sloping roof. Green moulded plastic with green temperature scale and reset button. Hanging hook on top of instrument.
Range: -35 to +50°C&F
Dimensions: 226 x 68 x 27mm
12/415/3 (°C&F)
12/415/2 (°C only)



3. Quick Set Push Button Max/Min
This popular design features a press button for quick reset. Available in white plastic with blue temperature scale and reset button. Hanging hook on top of instrument.
Range: -35 to +50°C&F
Dimensions: 205 x 55 x 27mm
12/408/3 (°C&F)
12/408/2 (°C only)

Max/Min Description	Range	Product Dimensions	Product Number
1. Magnet Reset	-35 to +50°C&F	250 x 60 x 27mm	12/401/3
	-35 to +50°C only	250 x 60 x 27mm	12/401/2
2. Heavy Duty Push Button	-35 to +50°C&F	200 x 67 x 23mm	12/403/3
	-35 to +50°C only	200 x 67 x 23mm	12/403/2
3. Quick Set Push Button	-35 to +50°C&F	205 x 55 x 27mm	12/408/3
	-35 to +50°C only	205 x 55 x 27mm	12/408/2
4. Push Button with Lid	-35 to +50°C&F	226 x 68 x 27mm	12/415/3
	-35 to +50°C only	226 x 68 x 27mm	12/415/2

Factory Act Thermometers

The following range of wall thermometers all show the recommended temperature for the workplace in accordance with The Workplace (Health, Safety & Welfare) Regulations 1992 Section 7, and are available in a choice of sizes. The clear black scale is printed on a robust plastic moulding. These thermometers can be supplied with certificate traceable to Recognised National Standard or Statement of Conformity, if required.



1. 380mm Workplace Thermometer

Range: -20 to +50°C&F
Dimensions: 380 x 75 x 10mm
14/374/3



2. 240mm Workplace Thermometer

Range: -20 to +50°C&F
Dimensions: 240 x 65 x 10mm
14/390/3



3. 215mm Workplace Thermometer

Range: -20 to +50°C&F
Dimensions: 215 x 40 x 7mm
14/410/3

Traceable
Calibration Certificate
upon request

Statement
of Conformity
upon request

Description	Range	Product Dimensions	Product Number
1. 380mm Thermometer	-20 to +50°C&F	380 x 75 x 10mm	14/374/3
2. 240mm Thermometer	-20 to +50°C&F	240 x 65 x 10mm	14/390/3
3. 215mm Thermometer	-20 to +50°C&F	215 x 40 x 7mm	14/410/3

Freezer and Refrigeration Thermometers

Range of thermometers to assist with the safe, cold storage of food with clear zones to indicate the correct temperature at which your fridge and freezer should be maintained.

1. Twin Reading Thermometer

Thermometer with max/min feature and high/low alarm settings. Ideally suited to read temperature in a fridge or freezer or outdoor and room temperature simultaneously. Magnet attachment and 2m probe cable. Suitable for UKAS calibration.

Range: -50 to +70°C&F
Dimensions: 63 x 63 x 15mm
LCD Dimensions: 21 x 47mm

22/420/3



CE
RoHS

UKAS
Calibration Certificate
upon request



2. Maximum Recording Fridge Guard Thermometer

130mm white horizontal fridge guard thermometer with blue temperature scale with clear zones showing recommended temperatures for safe food storage and marker to indicate maximum temperature reached since last reset.

Range: -30 to +30°C only
Dimensions: 130 x 40 x 22mm

22/482/2

Traceable
Calibration Certificate
upon request

3. Standard Horizontal Fridge or Freezer Thermometer

130mm white horizontal thermometer with blue temperature scale with clear fridge and freezer temperature zones.

Range: -30 to +40°C only
Dimensions: 130 x 40 x 22mm

22/483/2



Traceable
Calibration Certificate
upon request

Description	Type	Range	Product Dimensions	Product Number
1. Twin Reading	Digital	-20 to +50°C&F	380 x 75 x 10mm	14/437/3
2. Max Recording Fridge Guard	Liquid in glass	-20 to +50°C	240 x 65 x 10mm	14/390/3
3. Standard Horizontal	Liquid in glass	-20 to +50°C	215 x 40 x 7mm	14/410/3

Glass thermometers are the most popular and economical instrument for test purposes. Since mercury is no longer permitted under EU Regulations, these test thermometers are now filled with the **Brannan** blue coloured alternative, **LO-tox™** filling which combines high legibility and accuracy with low levels of hazard. The traditional red spirit filling is also available. The test thermometers are available in three different temperature ranges and in Celsius only or dual scales. They are calibrated for total immersion and can be supplied in a variety of case types. These thermometers can be supplied with certificate traceable to Recognised National Standard or Statement of Conformity, if required.



Statement of Conformity upon request

Traceable Calibration Certificate upon request

Reversible Plastic Case

The clear body fits to the cap with a bayonet clip which allows the case to be reversed and used as a holder for the thermometer to avoid contact with the material being tested.

Ranges: See table

Dimensions: 150 x 15mm diameter



Closed Plastic Case

The blue case with pocket clip protects the thermometer tube which is retained in the cap during use.

Ranges: See table

Dimensions: 160 x 12mm diameter



Range	Divisions	LO-tox™ Product Number	Red Spirit Product Number
-30 to +50°C	1°C	22/836/2	22/363/2
-30 to +50°C&F	1°C/2°F	22/836/3	22/363/3
0 to +50°C	0.5°C	22/875/2	22/675/2
0 to +50°C&F	0.5°C/1°F	22/875/3	22/675/3
-10 to +110°C	1°C	17/836/2	17/346/2
-10 to +110°C&F	1°C/2°F	17/836/3	17/346/3

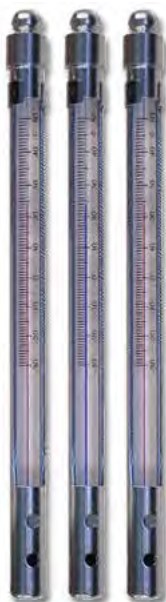
Range	Divisions	LO-tox™ Product Number	Red Spirit Product Number
-30 to +50°C	1°C	22/973/2	22/763/2
-30 to +50°C&F	1°C/2°F	22/973/3	22/763/3
0 to +50°C	0.5°C	22/870/2	22/670/2
0 to +50°C&F	0.5°C/1°F	22/870/3	22/670/3
-10 to +110°C	1°C	17/973/2	17/746/2
-10 to +110°C&F	1°C/2°F	17/973/3	17/746/3

Aluminium Case with Slot Front

This pocket test thermometer is held inside an aluminium case for protection during use.

Ranges: See table

Dimensions: 158 x 11mm diameter

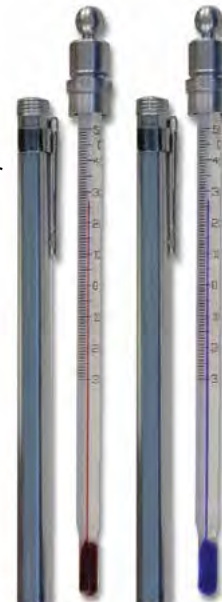


Heavy Duty Aluminium Case

The body of the case is removed during use and the tube is retained in the cap.

Ranges: See table

Dimensions: 165 x 12mm diameter



Range	Divisions	LO-tox™ Product Number	Red Spirit Product Number
-30 to +50°C	1°C	22/862/2	22/362/2
-30 to +50°C&F	1°C/2°F	22/862/3	22/362/3
0 to +50°C	0.5°C	22/880/2	22/680/2
0 to +50°C&F	0.5°C/1°F	22/880/3	22/680/3
-10 to +110°C	1°C	17/847/2	17/347/2
-10 to +110°C&F	1°C/2°F	17/847/3	17/347/3

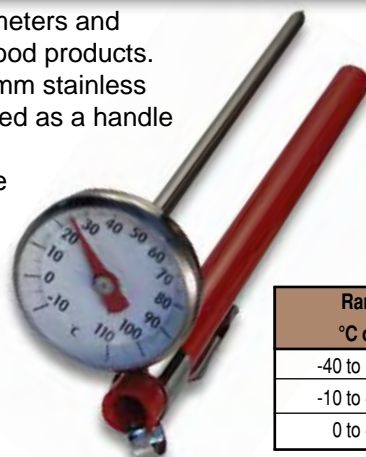
Range	Divisions	LO-tox™ Product Number	Red Spirit Product Number
-30 to +50°C	1°C	22/848/2	22/348/2
-30 to +50°C&F	1°C/2°F	22/848/3	22/348/3
0 to +50°C	0.5°C	22/885/2	22/685/2
0 to +50°C&F	0.5°C/1°F	22/885/3	22/685/3
-10 to +110°C	1°C	17/848/2	17/348/2
-10 to +110°C&F	1°C/2°F	17/848/3	17/348/3

Pocket Dial Test

Bimetal dial thermometers are an alternative to glass thermometers and have a stainless steel construction making them suitable for food products. These thermometers have 24mm diameter dial face with 125mm stainless steel spike stem and have a case with pocket clip which may be used as a handle for the thermometer. Other dial sizes available on request. These thermometers can be supplied with certificate traceable to Recognised National Standard or Statement of Conformity, if required.

Ranges: See table

Dimensions: 125 x 24mm diameter



Range °C only	Product Number
-40 to +70°C	31/141/0
-10 to +110°C	31/143/0
0 to +250°C	31/144/0



Batch Sampling Thermometers

These precision test thermometers are sealed into a 30ml polypropylene bottle containing a heat transfer medium and are ideally suited to monitor the temperature of samples in controlled storage. The bottle base of the assembly maintains a core temperature similar to that of the samples being monitored and is unaffected by short fluctuations caused by thermostatic variations or through the opening of cabinet doors. Clear reading **LO-tox™** blue filling eliminates the risk of mercury contamination.

This thermometers can be supplied with UKAS Certification on request.

Standard Batch Sampling Thermometers

A variety of ranges are available covering critical temperature spans for specific applications such as oven, freezer, blood bank, etc.

Ranges: See table

Dimensions: 145 x 35mm diameter

Application	Range	Product Number
Oven	+20 to +130°C	17/102/2
Blood Bank	-5 to +20°C	22/100/2
Freezer	-30 to 0°C	22/101/2
Refrigerator	-5 to +20°C	22/103/2
Incubator	-18 to +50°C	22/105/2



Maximum Reading Sampling Thermometer

Also available is the maximum reading sampling thermometer which has an index to record the maximum temperature of the process. The index is reset with the magnet supplied.

Range: -30 to +30°C only

Dimensions: 145 x 35mm diameter

22/104/2



Max/Min Digital Reading Sampling Thermometers

Batch sampling thermometer with max/min reading digital thermometer. The twin reading electronic thermometer has a max/min feature and high/low temperature alarm setting. Ideally suited to read temperature in a fridge or freezer or outdoor temperature and room temperature simultaneously. Magnet attachment and 2m probe cable.

Meter Range: -50 to +70°C&F only

Meter Dimensions: 63 x 63 x 15mm

LCD Dimensions: 21 x 47mm

22/106/3



These instruments measure the amount of water vapour in the atmosphere, on a percentage scale known as Relative Humidity (%RH). The difference between the "wet" and "dry" bulb temperatures enables the %RH to be determined through the use of tables or a calculator.



Mason's Hygrometer

White polypropylene case with water container and wick. Supplied complete with calculator chart and instructions to determine %RH. Replacement water container pots and wick also available.

Range: -5 to +50°C&F or °C only

Dimensions: 310 x 77 x 32mm

13/222/3 (°C&F)

13/222/2 (°C only)

Pack of 12 Replacement Wicks 13/084/0

Replacement Pot 13/087/0



Hair Hygrometer

100mm dial instrument with gold coloured scale and polished brass bezel and hanging ring. Supplied complete with instructions.

Range: 0 to 100%RH

Dimensions: 28 x 105mm diameter

30/900/0



Whirling Hygrometers

Whirling Hygrometers, also known as sling psychrometers, employ the "wet" and "dry" bulb principal to determine %RH. They are designed to be rotated, by hand, to provide adequate and consistent ventilation of the bulbs. These hygrometers are now filled with a blue spirit filling. Replacement refill tubes are available for both models. These instruments can be supplied with UKAS Certification on request.



Compact Psychrometer

This instrument uses shorter tubes and the design incorporates a slide rule type calculator to determine the %RH. The body of the instrument slides away into the handle providing complete protection when not in use.

The psychrometer is available in choice of Celsius or Fahrenheit only scales.

Range: -5 to +50°C or 0 to 120°F

Dimensions: 210 x 36 x 16mm

13/606/2 - °C only

Replacement Tube - 13/605/2 (°C only)

13/606/1 - °F only

Replacement Tube - 13/605/1 (°F only)



Whirling Hygrometer with Folding Handle

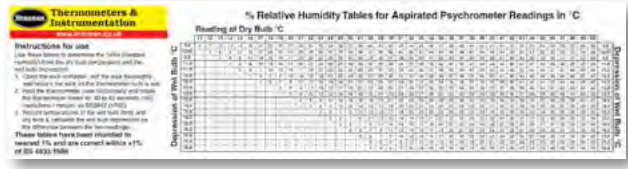
This traditional model has a folding handle and is supplied in a protective canvas carry case with calculator chart and instructions to determine %RH. Available in Celcius scale only.

Range: -5 to +50°C only

Dimensions: 237 x 143 x 29mm

13/744/2 - °C only

Replacement Tube - 13/044/2 (°C only)





Hydrometers

Specific Gravity Hydrometers
Twaddle and Baumé
BS 718 and ASTM Hydrometers

Density Hydrometers
Alcohol Hydrometers
Hydrometer Accessories



General Purpose Specific Gravity Hydrometers



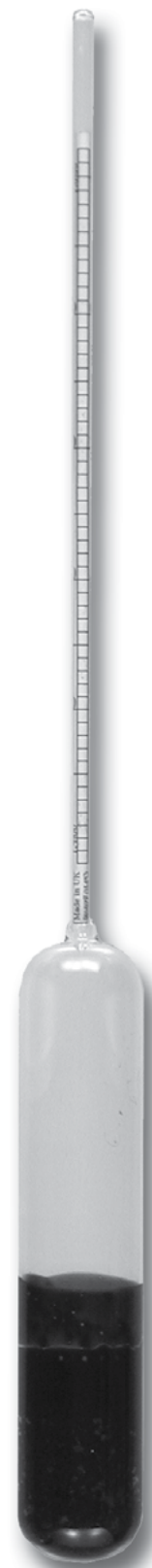
The specific gravity 60/60°F scale compares the relative density of a given liquid with that of water, at 60°F (15.6°C). The instruments listed are similar to hydrometers included in ISO 650 and in the (now superseded) 1960 issue of British Standard 718. Three of the 'series' of hydrometers are listed below and a further series is on the next page with some wider range types.

All hydrometers can be supplied with UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required.



- Series S50** 190mm long, covering a range span of 0.050°, divided in 0.002°
- Series M50** 270mm long, covering a range span of 0.050°, divided in 0.001°
- Series L50** 335mm long, covering a range span of 0.050°, divided in 0.0005°.

Range °SG	To suit Surface Tension	Product Number		
		Series S50	Series M50	Series L50
0.60 to 0.65°SG	Low	10/899/0	10/960/0	10/870/0
0.65 to 0.70°SG		10/900/0	10/961/0	10/871/0
0.70 to 0.75°SG		10/901/0	10/962/0	10/872/0
0.75 to 0.80°SG		10/902/0	10/963/0	10/873/0
0.80 to 0.85°SG		10/903/0	10/964/0	10/874/0
0.85 to 0.90°SG		10/904/0	10/921/0	10/875/0
0.90 to 0.95°SG		10/905/0	10/922/0	10/876/0
0.95 to 1.00°SG		10/906/0	10/923/0	10/877/0
1.00 to 1.05°SG	Medium	10/907/0	10/924/0	10/878/0
1.05 to 1.10°SG		10/908/0	10/925/0	10/879/0
1.10 to 1.15°SG		10/909/0	10/926/0	10/880/0
1.15 to 1.20°SG		10/910/0	10/927/0	10/881/0
1.20 to 1.25°SG		10/911/0	10/928/0	10/882/0
1.25 to 1.30°SG		10/912/0	10/929/0	10/883/0
1.30 to 1.35°SG		10/913/0	10/930/0	10/884/0
1.35 to 1.40°SG		10/914/0	10/931/0	10/885/0
1.40 to 1.45°SG		10/915/0	10/932/0	10/886/0
1.45 to 1.50°SG		10/916/0	10/970/0	10/887/0
1.50 to 1.55°SG		10/917/0	10/971/0	10/888/0
1.55 to 1.60°SG		10/918/0	10/972/0	10/889/0
1.60 to 1.65°SG		10/919/0	10/973/0	10/890/0
1.65 to 1.70°SG		10/990/0	10/974/0	10/891/0
1.70 to 1.75°SG		10/991/0	10/975/0	10/892/0
1.75 to 1.80°SG		10/992/0	10/976/0	10/893/0
1.80 to 1.85°SG		10/993/0	10/977/0	10/894/0
1.85 to 1.90°SG		10/994/0	10/978/0	10/895/0
1.90 to 1.95°SG	10/995/0	10/979/0	10/896/0	
1.95 to 2.00°SG	10/996/0	10/980/0	10/897/0	



The hydrometers on this page are adjusted at 60°F (15.6°C).
 All hydrometers can be supplied with UKAS certification, certificate traceable to
 Recognised National Standard or Statement of Conformity, if required.



Series M100
 250mm long,
 covering a span of 0.100°,
 divided in 0.002°

Range °SG	To suit Surface Tension	Product Number
0.60 to 0.70°SG	Low	10/940/0
0.70 to 0.80°SG		10/941/0
0.80 to 0.90°SG		10/942/0
0.90 to 1.00°SG		10/943/0
1.00 to 1.10°SG	Medium	10/944/0
1.10 to 1.20°SG		10/945/0
1.20 to 1.30°SG		10/946/0
1.30 to 1.40°SG		10/947/0
1.40 to 1.50°SG		10/948/0
1.50 to 1.60°SG		10/949/0
1.60 to 1.70°SG		10/950/0
1.70 to 1.80°SG		10/951/0
1.80 to 1.90°SG		10/952/0
1.90 to 2.00°SG	10/953/0	

200 Series
 250mm long, covering a span of 0.200°, divided in 0.002°

Range °SG	To suit Surface Tension	Product Number
0.60 to 0.80°SG	Low	10/500/0
0.80 to 1.00°SG		10/501/0
1.00 to 1.20°SG	Medium	10/502/0
1.20 to 1.40°SG		10/503/0
1.40 to 1.60°SG		10/504/0
1.60 to 1.80°SG		10/505/0
1.80 to 2.00°SG		10/506/0



Range Finder Hydrometers

These instruments are suitable for less accurate readings and are frequently used to help select the appropriate hydrometer for subsequent accurate determinations.

Range °SG	To suit Surface Tension	Length mm	Division	Product Number
0.70 to 1.00°SG	Low	250mm	0.005	10/530/0
1.00 to 1.50°SG	Medium	250mm	0.005	10/531/0
1.50 to 2.00°SG	Medium	250mm	0.005	10/532/0
0.70 to 2.00°SG	Medium	320mm	0.010	10/550/0
0.70 to 2.00°SG	Medium	250mm	0.010	10/551/0

Twaddle Hydrometers

The Twaddle scale is a simplified scale based on specific gravity where 0° Twaddle equates to SG60/60°F of 1.00 (that of water) and each degree Twaddle equals 0.005°SG. These hydrometers are available in 2 lengths, 160mm or 300mm, each with single degree divisions and are adjusted for use at 15.6°C (60°F) for medium surface tension liquids.

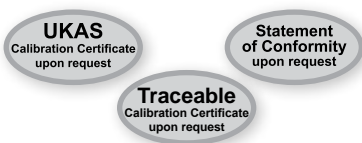
Twaddle Number	Range	Division	Product Number	
			L = 160mm	L = 300mm
1	0 to 24	1	10/101/0	10/151/0
2	24 to 28	1	10/102/0	10/152/0
3	48 to 74	1	10/103/0	10/153/0
4	74 to 102	1	10/104/0	10/154/0
5	102 to 138	1	10/105/0	10/155/0
6	138 to 170	1	10/106/0	10/156/0

Baumé Hydrometers

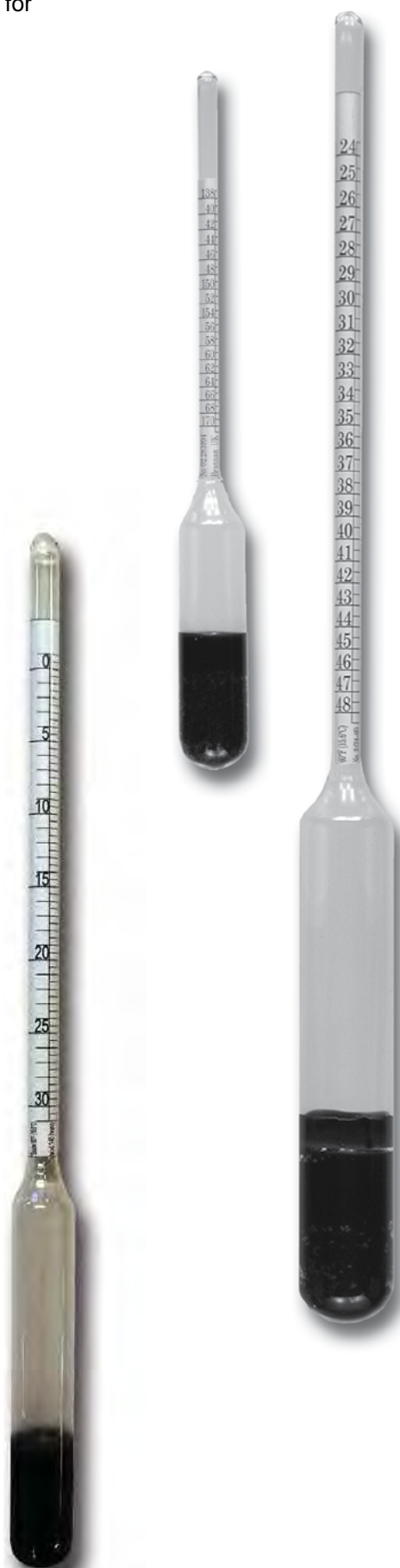
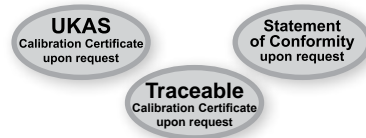
The Baumé hydrometers listed are for liquids heavier than water. Zero degrees Baumé equates to an SG 60/60°F of 1.00. This scale uses the accepted relationship for degrees Baumé where:

$$1 = 145 - \frac{145}{\text{SG } 60/60^\circ\text{F}}$$

The instruments are all 250mm long and are adjusted at 15.6°C (60°F) and suitable for medium surface tension liquids.



Range	Division	Product Number
0 to 30	0.5	10/200/0
0 to 50	1.0	10/201/0
0 to 70	1.0	10/202/0
0 to 10	0.1	10/203/0
10 to 20	0.1	10/204/0
20 to 30	0.1	10/205/0
30 to 40	0.1	10/206/0
40 to 50	0.1	10/207/0
50 to 60	0.1	10/208/0
60 to 70	0.1	10/209/0



Milk Hydrometers



UKAS
Calibration Certificate
upon request

Statement
of Conformity
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Specific Gravity & Quevenne Lactometers

160mm long milk hydrometers, adjusted at 15.6°C (60°F). Scales calibrated in specific gravity or Quevenne. 1° Quevenne equals 0.001°SG.

Range	Length mm	Division	Product Number
1.025 to 1.035°SG	160mm	0.001	10/601/0
1.015 to 1.025°SG	160mm	0.1	10/660/0

Lactometers to BS 734 : Part 1 : 1973

Calibrated in grams/ml and adjusted at 20°C. Designations 1 and 2 are for milk of normal density, 1A and 2A for milk of low density.

Designation	Range	Length mm	Division	Product Number
No 1	1.025 to 1.035°SG	220mm	0.0002	10/602/0
No 1A	1.015 to 1.025°SG	220mm	0.0002	10/603/0
No 2	1.025 to 1.035°SG	215mm	0.0005	10/604/0
No 2A	1.015 to 1.025°SG	215mm	0.0005	10/605/0

Colostrum Hydrometers

232mm long hydrometers to estimate immunoglobins in colostrum by measuring the specific gravity of colostrum and assist with dairy/milk production. Also available with glass hydrometer jar.

Description	Range	Length mm	Division	Product Number
Colostrum Hydrometer	0.025 to 1.075°SG	232mm	0.1	10/690/0
Colostrum Hydrometer with Jar	0.025 to 1.075°SG	232mm	0.1	10/691/0

Battery Testing Hydrometer Kit

Adjusted for use at 15.6°C and comprising a glass or plastic body with rubber bulb and nozzle, to withdraw a sample of the electrolyte, and a glass hydrometer with a range of 1.08 to 1.3°SG.

Body Material	Range	Division	Product Number
Plastic	1.080 to 1.030°SG	0.005	10/722/0
Glass	1.080 to 1.030°SG	0.005	10/723/0

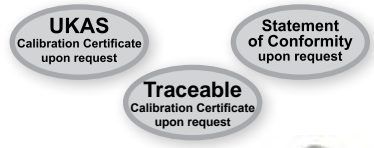


Draft Survey Hydrometer

320mm long and adjusted for use at 15°C. Supplied with or without certificate. Measuring the apparent density in kg/litres, commonly used for ship draft survey calculations.

Description	Range	Length mm	Division	Product Number
Hydrometer with Chart	0.99 to 1.04	320mm	0.0005	10/750/0
Hydrometer without Chart	0.99 to 1.04	320mm	0.0005	10/751/0

All hydrometers can be supplied with UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required.



Sea Water Hydrometers

Measuring the percentage of salt in seawater. Adjusted at 15°C. Can also be supplied adjusted at 20°C on request.

Range g/l	Length mm	Division	Product Number
1.000 to 1.030g/ml	175mm	0.002	10/630/0
1.000 to 1.040g/ml	220mm	0.001	10/631/0
1.000 to 1.030g/ml	200mm	0.002	10/632/0
1.000 to 1.040g/ml	200mm	0.002	10/633/0
1.000 to 1.030g/ml	250mm	0.002	10/634/0
1.000 to 1.040g/ml	250mm	0.002	10/635/0
1.000 to 1.050g/ml	250mm	0.002	10/636/0

Brinometer

Measuring the percentage saturated solution of brine in water at 15.6°C (60°F), these hydrometers are 230mm long.

Range % Brine	Length mm	Division	Product Number
0 to 100	230mm	1.0	10/621/0

Latexometer

These instruments are calibrated in grams of dry rubber per litre of latex and adjusted at 15.6°C (60°F). 160mm long.

Range g/l	Length mm	Division	Product Number
50 to 450	160mm	10.0	10/611/0
50 to 250	160mm	10.0	10/612/0

Urinometer

Measuring the specific gravity of urine at 15.6°C (60°F), these hydrometers are 160mm long.

Range °SG	Length mm	Division	Product Number
1.00 to 1.06	160mm	0.001	10/650/0

Aviation Fuel Hydrometers

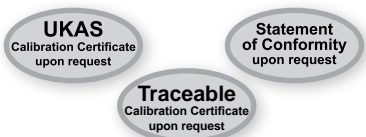
Measuring in specific gravity or density.

Range S60/60F	Adjusted	Length mm	Division	Product Number
0.75 to 0.85	60°F	185mm	0.002	10/640/0

Range °SG	Adjusted	Length mm	Division	Product Number
0.775 to 0.825	15°C	270mm	0.001	10/641/0

Wine & Beer Hydrometer

Measuring the specific gravity of wine and beer and designed for home use, this hydrometer will monitor the fermentation process and allows the percentage of alcohol to be determined easily with a zoned scale. Adjusted for use at 20°C.



Range °SG	Length mm	Division	Product Number
0.98 to 1.120	230mm	0.002	10/801/0

Wine & Beer Thermometer

Red spirit filled tube with easy to read scale. Suitable for use with wine and beer hydrometer.

Range °C&F	Length mm	Division	Product Number
15 to 105°C&F	205mm	1°C	21/594/3

Brix Hydrometer

Measuring the percentage of sugar and commonly used in wine production. The Brix scale is the equivalent to Balling and Plato scales. Adjusted for use at 15.6°C (60°F), for a surface tension 55mN/m.

Range	Length mm	Division	Product Number
0 to 10	300mm	0.1	10/250/0
10 to 20	300mm	0.1	10/251/0
20 to 30	300mm	0.1	10/252/0
30 to 40	300mm	0.1	10/253/0
40 to 50	300mm	0.1	10/254/0
50 to 60	300mm	0.1	10/255/0
60 to 70	300mm	0.1	10/256/0
0 to 20	250mm	0.2	10/257/0
20 to 40	250mm	0.2	10/258/0
40 to 60	250mm	0.2	10/259/0
60 to 80	250mm	0.2	10/260/0

Gay Lussac (Alcoholometer)

250mm hydrometer, measuring alcohol % by volume and adjusted at 15°C.

Range % Brine	Length mm	Division	Product Number
0 to 100	250mm	1.0	10/670/0



Alcohol Sikes Hydrometer

These Alcohol Sikes Hydrometers, for measuring ethanol/water mixtures using an arbitrary Sikes scale at 51°C. Overall length 255mm.

Range Sikes	Length mm	Division	Product Number
0 to 20 A	255mm	0.2	10/810/0
0 to 20	255mm	0.2	10/811/0
20 to 40	255mm	0.2	10/812/0
40 to 60	255mm	0.2	10/813/0
60 to 80	255mm	0.2	10/814/0
80 to 90	255mm	0.2	10/815/0

Alcohol Hydrometer

These Alcohol Hydrometers, for measuring the density of ethanol/water mixtures in kg/m³ at 20°C are to BS 5470.

Range kg/m ³	Length mm	Division	Product Number
780 to 800	300mm	0.2	10/850/0
800 to 820	300mm	0.2	10/851/0
820 to 840	300mm	0.2	10/852/0
840 to 860	300mm	0.2	10/853/0
860 to 880	300mm	0.2	10/854/0
880 to 900	300mm	0.2	10/855/0
900 to 920	300mm	0.2	10/856/0
920 to 940	300mm	0.2	10/857/0
940 to 960	300mm	0.2	10/858/0
960 to 980	300mm	0.2	10/859/0
980 to 1000	300mm	0.2	10/860/0

BS 718 : 1991 is generally aligned with ISO 387 and ISO 649. The specification includes five series and three sub-series of hydrometers, of which the most widely used are listed below. They are calibrated using the accepted units of grams per millilitre (g/ml) and are adjusted, except for the “SP” sub-series, at 20°C.

- Series S50** 190mm long, divided in 0.002g/ml, range spans of 0.050g/ml
- Series M50** 270mm long, divided in 0.001g/ml, range spans of 0.050g/ml
- Series L50** 330mm long, divided in 0.0005g/ml, range spans of 0.050g/ml



Range g/ml	To suit Surface Tension	Product Number		
		Series S50	Series M50	Series L50
0.60 to 0.65g/ml	Low	10/300/0	10/330/0	10/360/0
0.65 to 0.70g/ml		10/301/0	10/331/0	10/361/0
0.70 to 0.75g/ml		10/302/0	10/332/0	10/362/0
0.75 to 0.80g/ml		10/303/0	10/333/0	10/363/0
0.80 to 0.85g/ml		10/304/0	10/334/0	10/364/0
0.85 to 0.90g/ml		10/305/0	10/335/0	10/365/0
0.90 to 0.95g/ml		10/306/0	10/336/0	10/366/0
0.95 to 1.00g/ml		10/307/0	10/337/0	10/367/0
1.00 to 1.05g/ml	Medium	10/308/0	10/338/0	10/368/0
1.05 to 1.10g/ml		10/309/0	10/339/0	10/369/0
1.10 to 1.15g/ml		10/310/0	10/340/0	10/370/0
1.15 to 1.20g/ml		10/311/0	10/341/0	10/371/0
1.20 to 1.25g/ml		10/312/0	10/342/0	10/372/0
1.25 to 1.30g/ml		10/313/0	10/343/0	10/373/0
1.30 to 1.35g/ml		10/314/0	10/344/0	10/374/0
1.35 to 1.40g/ml		10/315/0	10/345/0	10/375/0
1.40 to 1.45g/ml		10/316/0	10/346/0	10/376/0
1.45 to 1.50g/ml		10/317/0	10/347/0	10/377/0
1.50 to 1.55g/ml		10/318/0	10/348/0	10/378/0
1.55 to 1.60g/ml		10/319/0	10/349/0	10/379/0
1.60 to 1.65g/ml		10/320/0	10/350/0	10/380/0
1.65 to 1.70g/ml		10/321/0	10/351/0	10/381/0
1.70 to 1.75g/ml		10/322/0	10/352/0	10/382/0
1.75 to 1.80g/ml		10/323/0	10/353/0	10/383/0
1.80 to 1.85g/ml		10/324/0	10/354/0	10/384/0
1.85 to 1.90g/ml		10/325/0	10/355/0	10/385/0
1.90 to 1.95g/ml	10/326/0	10/356/0	10/386/0	
1.95 to 2.00g/ml	10/327/0	10/357/0	10/387/0	

Series M100

Adjusted at 20°C, these hydrometers have a range span of 0.100g/ml with a length of 250mm and are divided every 0.002g/ml.

Range g/ml	To suit Surface Tension	Product Number
0.60 to 0.70g/ml	Low	10/400/0
0.70 to 0.80g/ml		10/401/0
0.80 to 0.90g/ml		10/402/0
0.90 to 1.00g/ml		10/403/0
1.00 to 1.10g/ml	Medium	10/404/0
1.10 to 1.20g/ml		10/405/0
1.20 to 1.30g/ml		10/406/0
1.30 to 1.40g/ml		10/407/0
1.40 to 1.50g/ml		10/408/0
1.50 to 1.60g/ml		10/409/0
1.60 to 1.70g/ml		10/410/0
1.70 to 1.80g/ml		10/411/0
1.80 to 1.90g/ml		10/412/0
1.90 to 2.00g/ml		10/413/0



BS 718 : 1960 Specific Gravity Hydrometers

Sub-series M50 SP

BS 718 : 1991 is generally aligned with ISO 387 and ISO 649. This sub-series has a greater accuracy than the standard M50 Series and is only available over a limited range of density. The length is 270mm and the range span covers 0.050 g/ml with divisions 0.001g/ml. They are adjusted at 15°C and suitable for low surface tension. This sub-series is commonly used in the Petroleum industry and corresponds to IP160.

Range g/ml	To suit Surface Tension	Product Number
0.60 to 0.65	Low	10/450/0
0.65 to 0.70		10/451/0
0.70 to 0.75		10/452/0
0.75 to 0.80		10/453/0
0.80 to 0.85		10/454/0
0.85 to 0.90		10/455/0
0.90 to 0.95		10/456/0
0.95 to 1.00		10/457/0
1.00 to 1.05		10/458/0
1.05 to 1.10		10/459/0

Sub-series L50 SP

BS 718 : 1991 is generally aligned with ISO 649. This sub-series has a greater accuracy than the standard L50 Series and is only available over a limited range of density. The length is 335mm and the range span covers 0.050 g/ml with divisions 0.0005g/ml. They are adjusted at 15°C and suitable for low surface tension. This sub-series is commonly used in the Petroleum industry and corresponds to IP160.

Range g/ml	To suit Surface Tension	Product Number
0.60 to 0.65	Low	10/460/0
0.65 to 0.70		10/461/0
0.70 to 0.75		10/462/0
0.75 to 0.80		10/463/0
0.80 to 0.85		10/464/0
0.85 to 0.90		10/465/0
0.90 to 0.95		10/466/0
0.95 to 1.00		10/467/0
1.00 to 1.05		10/468/0
1.05 to 1.10		10/469/0

BS 718 : 1991 Density Hydrometers

Sub-series S60/60F M50 SP

BS 718 : 1991 is generally aligned with ISO 387 and ISO 650. This sub-series has a greater accuracy than the standard M50 Series and is only available over a limited range of density. The length is 270mm and the range span covers 0.050 S60/60F with divisions 0.001 S60/60F. They are adjusted at 60/60°F and suitable for low surface tension. This sub-series is commonly used in the Petroleum industry and corresponds to IP 160.

Range S60/60F	To suit Surface Tension	Product Number
0.60 to 0.65	Low	10/450/5
0.65 to 0.70		10/451/5
0.70 to 0.75		10/452/5
0.75 to 0.80		10/453/5
0.80 to 0.85		10/454/5
0.85 to 0.90		10/455/5
0.90 to 0.95		10/456/5
0.95 to 1.00		10/457/5
1.00 to 1.05		10/458/5
1.05 to 1.10		10/459/5

Sub-series S60/60F M50 SP

BS 718 : 1960 is generally aligned with ISO 650. This sub-series has a greater accuracy than the standard M50 Series and is only available over a limited range of density. The length is 335mm and the range span covers 0.050 S60/60F with divisions 0.0005 S60/60F. They are adjusted at 60/60°F and suitable for low surface tension. This sub-series is commonly used in the Petroleum industry and corresponds to IP160.

Range S60/60F	To suit Surface Tension	Product Number
0.60 to 0.65	Low	10/460/5
0.65 to 0.70		10/461/5
0.70 to 0.75		10/462/5
0.75 to 0.80		10/463/5
0.80 to 0.85		10/464/5
0.85 to 0.90		10/465/5
0.90 to 0.95		10/466/5
0.95 to 1.00		10/467/5
1.00 to 1.05		10/468/5
1.05 to 1.10		10/469/5



The American Society for Testing and Materials (ASTM) Specification E 100 describes hydrometers using the API (American Petroleum Institute) scale and others in degrees Specific Gravity.

Statement of Conformity upon request

UKAS Calibration Certificate upon request

Traceable Calibration Certificate upon request

330mm Long Plain Hydrometers

Adjusted at 60°F for petroleum products and other liquids of low surface tension.

ASTM Number	API Range	Division	Product Number
1H	-1 to 11	0.1	09/001/0
2H	9 to 21	0.1	09/002/0
3H	19 to 31	0.1	09/003/0
4H	29 to 41	0.1	09/004/0
5H	39 to 51	0.1	09/005/0
6H	49 to 61	0.1	09/006/0
7H	59 to 71	0.1	09/007/0
8H	69 to 81	0.1	09/008/0
9H	79 to 91	0.1	09/009/0
10H	89 to 101	0.1	09/010/0

ASTM Number	Range °SG	Division	Product Number
82H	0.650 to 0.700°SG	0.0005	09/082/0
83H	0.700 to 0.750°SG	0.0005	09/083/0
84H	0.750 to 0.800°SG	0.0005	09/084/0
85H	0.800 to 0.850°SG	0.0005	09/085/0
86H	0.850 to 0.900°SG	0.0005	09/086/0
87H	0.900 to 0.950°SG	0.0005	09/087/0
88H	0.950 to 1.000°SG	0.0005	09/088/0
89H	1.000 to 1.050°SG	0.0005	09/089/0
90H	1.050 to 1.100°SG	0.0005	09/090/0

330mm Long Hydrometers

Adjusted at 60°F for heavier liquids of medium surface tension.

ASTM Number	Range °SG	Division	Product Number
98H	0.950 to 1.000°SG	0.0005	09/098/0
111H	1.000 to 1.050°SG	0.0005	09/111/0
112H	1.050 to 1.100°SG	0.0005	09/112/0
113H	1.100 to 1.150°SG	0.0005	09/113/0
114H	1.150 to 1.200°SG	0.0005	09/114/0
115H	1.200 to 1.250°SG	0.0005	09/115/0
116H	1.250 to 1.300°SG	0.0005	09/116/0
117H	1.300 to 1.350°SG	0.0005	09/117/0
118H	1.350 to 1.400°SG	0.0005	09/118/0
119H	1.400 to 1.450°SG	0.0005	09/119/0
120H	1.450 to 1.500°SG	0.0005	09/120/0



Soil Hydrometers

ASTM Soil Hydrometers

ASTM Specification E 100 describes hydrometers using the API (American Petroleum Institute) scale and others in degrees Specific Gravity.

200mm long and adjusted at 68°F.

ASTM Number	Range °SG	Division	Product Number
151H	0.995 to 1.038°SG	0.001	09/151/0

ASTM Number	Range g/ml	Division	Product Number
152H	-5 to 60g/ml	1.0	09/152/0

BS 1377 Soil Hydrometers

This soil hydrometer is to BS 1377 for the determination of particle size distribution in soil.

345mm long, adjusted at 20°F.

BS Number	Range °SG	Division	Product Number
1377	0.995 to 1.030°SG	0.001	10/681/0

Hydrometer Cylinders



Internal Depth	Suitable for Hydrometer Series	Product Number
200mm	S50	10/000/0
300mm	M50 & M100	10/000/1
330mm	L50	10/000/2

Hydrometer Cylinders

These three cylinders are available with a standard internal diameter of 37mm.

Thermometers for use with Hydrometers

BS 718 : 1991 recommends these thermometers for precision work. They can be supplied with a UKAS Calibration Certificate which should be specified at time of ordering.

Designation	Range °C	Division	Product Number
A40C/Total	-0.5 to +40.5°C	0.1°C	51/061/0
B60C/Total	-21.0 to +61.0°C	0.2°C	51/066/0



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44/105/1	205mm Red Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +60°C	13	44/802/9	305mm 76mm Immersion Lo-Tox Laboratory Thermometer - Range: -20 to +110°C x 0.5°C	11
44/105/2	205mm Red Spirit Total Immersion Laboratory Thermometer - Range: -10 to +60°C	13	44/803/0	305mm Red Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +110°C x 0.5°C	13
44/105/5	250mm Red Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +150°C	13	44/803/5	305mm 76mm Immersion Lo-Tox Laboratory Thermometer - Range: -20 to +150°C&F	11
44/107/1	250mm Red Spirit Total Immersion Laboratory Thermometer - Range: -10 to +110°C	13	44/803/7	305mm 76mm Immersion Lo-Tox Laboratory Thermometer - Range: 0 to +300°F	11
44/302/8	305mm Red Spirit 76mm Immersion Yellow Back Laboratory Thermometer - Range: -20 to +110°C	13	44/803/8	305mm 76mm Immersion Lo-Tox Laboratory Thermometer - Range: -20 to +150°C	11
44/302/9	305mm Red Spirit 76mm Immersion Yellow Back Laboratory Thermometer - Range: -20 to +150°C	13	44/804/5	405mm 76mm Immersion Lo-Tox Laboratory Thermometer - Range: -10 to +260°C&F	11
44/303/8	305mm Red Spirit 76mm Immersion Yellow Back Laboratory Thermometer - Range: -20 to +110°C&F	13	44/804/7	405mm 76mm Immersion Lo-Tox Laboratory Thermometer - Range: +20 to +500°F	11, 18
44/303/9	305mm Red Spirit 76mm Immersion Yellow Back Laboratory Thermometer - Range: -20 to +150°C&F	13	44/804/8	405mm 76mm Immersion Lo-Tox Laboratory Thermometer - Range: -10 to +260°C	11, 18
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44/311/8	305mm Red Spirit Total Immersion Yellow Back Laboratory Thermometer - Range: -20 to +150°C	13	44/808/8	305mm Blue LO-tox Total Immersion Laboratory Thermometer - Range: -20 to +150°C	11
44/401/0	305mm Red Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +50°C	13	44/809/7	305mm Total Immersion Lo-Tox Laboratory Thermometer - Range: -30 to +120°F	11
44/401/1	305mm Red Spirit Total Immersion Laboratory Thermometer - Range: -10 to +50°C	13	44/809/8	305mm Total Immersion Lo-Tox Laboratory Thermometer - Range: -35 to +50°C	11
44/403/0	305mm Red Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +110°C	13	44/810/8	305mm Total Immersion Lo-Tox Laboratory Thermometer - Range: -20 to +110°C	11
44/403/5	305mm Green Spirit 76 Immersion Laboratory Thermometer - Range: -10 to +110°C	13	44/811/8	305mm Total Immersion Lo-Tox Laboratory Thermometer - Range: -20 to +150°C	11
44/403/7	305mm Blue Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +110°C	13	44/812/8	405mm Total Immersion Lo-Tox Laboratory Thermometer - Range: -10 to +210°C	11
44/406/0	305mm Red Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +150°C	13	44/813/8	405mm Total Immersion Lo-Tox Laboratory Thermometer - Range: -10 to +260°C	11
44/408/0	305mm Blue Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +200°C	13	44/814/0	305mm 76mm Immersion Lo-Tox Laboratory Thermometer - Range: -10 to +330°C	11
44/408/1	305mm Blue Spirit Total Immersion Laboratory Thermometer - Range: -10 to +200°C	13	44/815/0	305mm Brown LO-tox 76mm Immersion Laboratory Thermometer - Range: -10 to +300°C	11
44/417/0	250mm Red Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +110°C	13	44/816/7	305mm Total Immersion Lo-Tox Laboratory Thermometer - Range: 0 to +230°F	11
44/423/0	205mm Red Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to 110°C	13	44/817/7	305mm Total Immersion Lo-Tox Laboratory Thermometer - Range: 0 to +300°F	11
44/423/5	205mm Green Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +110°C	13	44/818/0	305mm Brown LO-tox Total Immersion Laboratory Thermometer - Range: -10 to +300°C	11
44/425/0	200mm Breaksafe Green Spirit Laboratory Thermometer - Range: -10 to +110°C	15,16	44/819/0	305mm Total Immersion Lo-Tox Laboratory Thermometer - Range: -10 to +360°C	11
44/430/0	155mm Red Spirit Total Immersion Laboratory Thermometer - Range: -10 to +110°C	13	44/820/0	405mm Blue LO-tox 76mm Immersion Laboratory Thermometer - Range: -1 to +51°C	11
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44/430/7	155mm Blue Spirit Total Immersion Laboratory Thermometer - Range: -10 to +110°C	13	44/822/0	405mm Blue LO-tox 76mm Immersion Laboratory Thermometer - Range: -1 to +51°C	11
44/441/0	205mm Red Spirit 76mm Immersion Laboratory Thermometer - Range: -10 to +150°C	13	44/823/0	405mm Blue LO-tox Total Immersion Laboratory Thermometer - Range: -1 to +51°C	11
44/442/0	205mm Red Spirit Total Immersion Laboratory Thermometer - Range: -10 to +150°C	13	44/824/0	405mm Blue LO-tox 76mm Immersion Laboratory Thermometer - Range: -1 to +101°C	11
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55/072/1	ASTM Equiv 72F Laboratory Thermometer	24	58/038/2	IP 38C Laboratory Thermometer	26
55/072/2	ASTM Equiv 72C Laboratory Thermometer	24	58/039/2	IP 39C Laboratory Thermometer	26
55/073/1	ASTM Equiv 73F Laboratory Thermometer	24	58/040/2	IP 40C Laboratory Thermometer	26
55/073/2	ASTM Equiv 73C Laboratory Thermometer	24	58/041/2	IP 41C Laboratory Thermometer	26
55/075/1	ASTM Equiv 75F Laboratory Thermometer	24	58/042/2	IP 42C Laboratory Thermometer	26
55/077/1	ASTM Equiv 77F Laboratory Thermometer	24	58/043/2	IP 43C Laboratory Thermometer	26
55/078/1	ASTM Equiv 78F Laboratory Thermometer	24	58/044/2	IP 44C Laboratory Thermometer	26
55/079/1	ASTM Equiv 79F Laboratory Thermometer	24	58/045/2	IP 45C Laboratory Thermometer	26
55/080/1	ASTM Equiv 80F Laboratory Thermometer	24	58/046/2	IP 46C Laboratory Thermometer	26
55/082/1	ASTM Equiv 82F Laboratory Thermometer	24	58/047/2	IP 47C / ASTM 13C Laboratory Thermometer	26,28
55/082/2	ASTM Equiv 82C Laboratory Thermometer	24	58/048/2	IP 48C Laboratory Thermometer	26
55/084/1	ASTM Equiv 84F Laboratory Thermometer	24	58/049/2	IP 49C Laboratory Thermometer	26
55/084/2	ASTM Equiv 84C Laboratory Thermometer	24	58/050/2	IP 50C Laboratory Thermometer	26
55/085/1	ASTM Equiv 85F Laboratory Thermometer	24	58/051/2	IP 51C Laboratory Thermometer	26
55/085/2	ASTM Equiv 85C Laboratory Thermometer	24	58/052/2	IP 52C Laboratory Thermometer	26
55/086/1	ASTM Equiv 86F Laboratory Thermometer	24	58/053/2	IP 53C Laboratory Thermometer	27
55/086/2	ASTM Equiv 86C Laboratory Thermometer	24	58/054/2	IP 54C Laboratory Thermometer	27
55/087/1	ASTM Equiv 87F Laboratory Thermometer	24	58/055/2	IP 55C Laboratory Thermometer	27
55/087/2	ASTM Equiv 87C Laboratory Thermometer	24	58/056/2	IP 56C Laboratory Thermometer	27
55/088/1	ASTM Equiv 88F Laboratory Thermometer	24	58/057/2	IP 57C Laboratory Thermometer	27
55/088/2	ASTM Equiv 88C Laboratory Thermometer	24	58/058/2	IP 58C Laboratory Thermometer	27
55/089/2	ASTM Equiv 89C Laboratory Thermometer	24	58/059/2	IP 59C / ASTM 35C Laboratory Thermometer	27,29
55/090/2	ASTM Equiv 90C Laboratory Thermometer	24	58/060/2	IP 60C / ASTM 15C Laboratory Thermometer	27,28
55/091/2	ASTM Equiv 91C Laboratory Thermometer	24	58/061/2	IP 61C / ASTM 16C Laboratory Thermometer	27,28
55/092/2	ASTM Equiv 92C Laboratory Thermometer	24	58/062/2	IP 62C / ASTM 2C / BS593 F300C/76 Laboratory Therm	21,27
55/093/2	ASTM Equiv 93C Laboratory Thermometer	24	58/063/2	IP 63C / ASTM61C Laboratory Thermometer	27,29
55/094/2	ASTM Equiv 94C Laboratory Thermometer	24	58/064/2	IP 64C / ASTM 12C Laboratory Thermometer	27,28
55/095/2	ASTM Equiv 95C Laboratory Thermometer	24	58/065/2	IP 65C / ASTM 43C Laboratory Thermometer	27,29
55/096/2	ASTM Equiv 96C Laboratory Thermometer	24	58/066/2	IP 66C / ASTM 46C Laboratory Thermometer	27,29
55/097/1	ASTM Equiv 97F Laboratory Thermometer	24	58/067/2	IP 67C / ASTM 72C Laboratory Thermometer	27,30
55/097/2	ASTM Equiv 97C Laboratory Thermometer	24	58/068/2	IP 68C / ASTM 73C Laboratory Thermometer	27,30
55/098/1	ASTM Equiv 98F Laboratory Thermometer	24	58/069/2	IP 69C / ASTM 74C Laboratory Thermometer	27,30
55/098/2	ASTM Equiv 98C Laboratory Thermometer	24	58/071/2	IP 71C / ASTM 126C Laboratory Thermometer	27,31
55/099/1	ASTM Equiv 99F Laboratory Thermometer	24	58/072/2	IP 72C / ASTM 71C Laboratory Thermometer	27,30
55/099/2	ASTM Equiv 99C Laboratory Thermometer	24	58/073/2	IP 73C / ASTM 3C / BS593 F400C/76 Laboratory Therm	21,27,28
55/100/2	ASTM Equiv 100C Laboratory Thermometer	25	58/075/2	IP 75C Laboratory Thermometer	27
55/102/2	ASTM Equiv 102C Laboratory Thermometer	25	58/076/2	IP 76C Laboratory Thermometer	27
55/103/2	ASTM Equiv 103C Laboratory Thermometer	25	58/077/2	IP 77C / ASTM 37C / BS593 F50C/100 Laboratory Therm	21,27,29
55/104/2	ASTM Equiv 104C Laboratory Thermometer	25	58/078/2	IP 78C / ASTM 38C / BS593 F75C/100 Laboratory Therm	21,27,29
55/108/1	ASTM Equiv 108F Laboratory Thermometer	25	58/079/2	IP 79C / ASTM 39C / BS593 F100C/100 Laboratory Therm	21,27,29
55/109/1	ASTM Equiv 109F Laboratory Thermometer	25	58/080/2	IP 80C / ASTM 40C / BS593 F125C/100 Laboratory Therm	21,27,29
55/112/2	ASTM Equiv 112C Laboratory Thermometer	25	58/081/2	IP 81C / ASTM 41C / BS593 F150C/100 Laboratory Therm	21,27,29
55/113/1	ASTM Equiv 113F Laboratory Thermometer	25	58/082/2	IP 82C / ASTM 42C / BS593 F255C/100 Laboratory Therm	21,27,29
55/113/2	ASTM Equiv 113C Laboratory Thermometer	25	58/083/2	IP 83C / ASTM 102C / BS593 F175C/100 Laboratory Therm	21,27,31
55/116/2	ASTM Equiv S116C Laboratory Thermometer	25	58/084/2	IP 84C / ASTM 103C / BS593 F200C/100 Laboratory Therm	21,27,31
55/117/2	ASTM Equiv S117C Laboratory Thermometer	25	58/085/2	IP 85C / ASTM 104C / BS593 F225C/100 Laboratory Therm	21,27,31
55/118/1	ASTM Equiv 118F Laboratory Thermometer	25	58/086/2	IP 86C / ASTM 105C / BS593 F250C/100 Laboratory Therm	21,27,31
55/118/2	ASTM Equiv 118C Laboratory Thermometer	25	58/087/2	IP 87C / ASTM 106 / BS593 F275C/100C Laboratory Therm	21,27,31
55/119/1	ASTM Equiv 119F Laboratory Thermometer	25	58/088/2	IP 88C / ASTM 107C / BS593 F300C/100 Laboratory Therm	21,27,31
55/119/2	ASTM Equiv 119C Laboratory Thermometer	25	58/089/2	IP 89C / ASTM 113C Laboratory Thermometer	27,31
55/120/2	ASTM Equiv S120C Laboratory Thermometer	25	58/090/2	IP 90C / ASTM 48C Laboratory Thermometer	27,29
55/121/2	ASTM Equiv 121C Laboratory Thermometer	25	58/091/2	IP 91C Laboratory Thermometer	27
55/122/2	ASTM Equiv 122C Laboratory Thermometer	25	58/092/2	IP 92C / ASTM 120C Laboratory Thermometer	27,31
55/123/2	ASTM Equiv 123C Laboratory Thermometer	25	58/093/2	IP 93C / ASTM 110C Laboratory Thermometer	27,31
55/124/2	ASTM Equiv 124C Laboratory Thermometer	25	58/094/2	IP 94C / ASTM 122C Laboratory Thermometer	27,31
55/125/2	ASTM Equiv 125C Laboratory Thermometer	25	58/095/2	IP 95C / ASTM 123C Laboratory Thermometer	27,31
55/126/1	ASTM Equiv 126F Laboratory Thermometer	25	58/096/2	IP 96C / ASTM 124C Laboratory Thermometer	27,31
55/126/2	ASTM Equiv 126C Laboratory Thermometer	25	58/097/2	IP 97C / ASTM 125C Laboratory Thermometer	27,31
55/127/2	ASTM Equiv 127C Laboratory Thermometer	25	58/098/2	IP 98C Laboratory Thermometer	27
55/128/1	ASTM Equiv 128F Laboratory Thermometer	25	58/099/2	IP 99C / ASTM 127C Laboratory Thermometer	27,31
55/128/2	ASTM Equiv 128C Laboratory Thermometer	25	58/100/2	IP 100C Laboratory Thermometer	27
55/129/1	ASTM Equiv 129F Laboratory Thermometer	25	58/101/2	IP 101C Laboratory Thermometer	27
55/129/2	ASTM Equiv 129C Laboratory Thermometer	25	58/102/2	IP 102C / ASTM 132C Laboratory Thermometer	27,31
55/130/1	ASTM Equiv 130F Laboratory Thermometer	25	59/001/1	ASTM 1F Laboratory Thermometer	28

The following certificates and documentation are current at time of print. For most up to date certificates, please see our website.

United Kingdom Accreditation Service

ACCREDITATION CERTIFICATE



CALIBRATION LABORATORY
No. 0582

S Brannan and Sons Ltd

* accredited in accordance with the recognised International Standard ISO/IEC 17025:2005
General Requirements for the competence of testing and calibration laboratories.

The accreditation demonstrates technical competence for a defined scope as detailed in and at the locations specified in the schedule to this certificate, and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Co-operation dated January 2009).

The schedule to this certificate is an essential accreditation document and from time to time may be revised and issued by the United Kingdom Accreditation Service. The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from the UKAS website www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements. The absence of a schedule on the UKAS website indicates that the accreditation is no longer in force.

Accreditation Manager, United Kingdom Accreditation Service

Initial Accreditation date 2 March 1998 **This certificate issued on** 25 June 2012

UKAS is accredited as the sole national accreditation body for the UK by The Accreditation Regulations 2009 (SI No 2160(2009)) which operates under a Memorandum of Understanding (MoU) with the Department for Business, Innovation and Skills (BIS)

LRQA
REGISTERED ASSURANCE

CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

S Brannan & Sons Ltd
Leconfield Industrial Estate,
Cleator Moor, Cumbria
United Kingdom

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standards:

ISO 9001:2008

The Quality Management System is applicable to:

Design, manufacture, calibration and repair of liquid filled and bimetal dial thermometers. Procurement and stockholding of thermometers, hydrometers, pressure gauges and control and monitoring devices (windspeed, light, sound, time and weather monitoring) including factored products.

This certificate forms part of the approval identified by certificate number LRQ 0890215A

Approval Certificate No: LRQ 0890215A Original Approval: 20 December 1991
Current Certificate: 1 December 2012
Certificate Expiry: 30 November 2015

Issued by Lloyd's Register Quality Assurance Limited



This document is subject to the provisions set out therein.
11 Hertswood Lane, London E11 2JH, UK. Registered in England. Registration number 1829412.
The details of our accreditation and the scope of our accreditation are available on our website www.lrqa.com.
This copy of the certificate is valid only if it is accompanied by the original of the certificate issued by Lloyd's Register Quality Assurance Limited.

Brannan Thermometers & Instrumentation

RoHS

Restriction of Hazardous Substances
Compliance with RoHS Directive
European Community 2011/65/EU

It is S Brannan & Sons Ltd policy that all applicable electrical and electronic products supplied by the company are RoHS compliant.

RoHS restricts the use of the following substances:

1. Lead (Pb)
2. Mercury (Hg)
3. Cadmium (Cd)
4. Hexavalent chromium (Cr6+)
5. Polybrominated biphenyls (PBB)
6. Polybrominated diphenyl ether (PBDE)
7. Hexabromocyclododecane (HBCDD)
8. Diethylhexyl phthalate (DEHP)
9. Butyl benzyl phthalate (BBP)
10. Dibutyl phthalate (DBP)

All RoHS compliant products have a Material Declaration Form available on request.

Managing Director Date 25.07.14

S Brannan & Sons Ltd
Industrial Estate
Leconfield Moor • Cumbria • CA25 5QE • UK
01948 816600 • fax: +44 (0)1948 816625
info@brannan.co.uk • web: www.brannan.co.uk

LRQA
REGISTERED ASSURANCE

APPROVAL OF CONFORMITY CERTIFICATE

In accordance with the requirements of the Medical Devices Directive 93/42/EEC and the Medical Devices Regulations 2002, UK Statutory Instrument 2002 No. 618

This is to certify that the Quality Management System of:

S Brannan & Sons Ltd
Leconfield Industrial Estate,
Cleator Moor, Cumbria
United Kingdom

has been assessed against the requirements of Annex V of the Medical Devices Directive 93/42/EEC, and the Medical Devices Regulations 2002 and conforms to the requirements for the products shown on the attached schedule.

Approval is subject to the maintenance of the quality system in accordance with the requirements of the above Directive and Regulations.

Authorisation is hereby given to use the LRQA Notified Body Registration Number in accordance with the requirements of the specified Directives/Regulations in relation to the products as identified above.

Certificate No: LRQ 0890215A
Original Approval: 1 June 1996
Current Certificate: 1 December 2012
Certificate Expiry: 30 November 2015
LRQA Notified Body Number 0088

Issued by Lloyd's Register Quality Assurance Limited

This document is subject to the provisions set out therein.
11 Hertswood Lane, London E11 2JH, UK. Registered in England. Registration number 1829412.

complydirect
WEEE Small Producer Compliance Certificate 2015

This is to Certify that

S Brannan and Sons Limited

Has registered as a WEEE Small Producer for the compliance year 2015.
As required by The Waste Electrical & Electronic Equipment Regulations.

290512
Company registration number
CD01/00132
Comply Direct scheme membership number
WEE/FED067TX
WEEE (Producer) registration number

Issued by

Gareth Roberts, Managing Director, Comply Direct Ltd



This certificate is valid only if it is accompanied by the original of the certificate issued by the approval site Name: under section 9(4)(c) of the 1995 Act.

Brannan Conflict Minerals Policy

tel: +44 (0)1946 816600 fax: +44 (0)1946 816625 email: sales@brannan.co.uk web: www.brannan.co.uk

In August 2012 the US Securities and Exchange Commission (SEC) approved a conflict minerals rule as mandated by the Dodd-Frank Wall Street Reform and Consumer Protection Act. This rule imposes new supply chain reporting requirements on publicly traded companies to promote transparency and consumer awareness regarding the use of "conflict minerals" (specifically the metals tantalum, tin, tungsten and gold) in their products.

The new reporting requirements are based on concerns that revenues obtained from mining and transport of conflict minerals finance the ongoing conflict in the Democratic Republic of Congo (DRC) and surrounding countries and the resulting humanitarian crises.

Although reporting requirements only apply to publicly traded companies required to report to the SEC, these requirements are expected to affect the entire electronics industry supply chain. Any company supplying products to an affected company is expected to be asked for conflict minerals information.

S.Brannan & Sons Limited has a proud reputation for delivering quality products and is committed to sourcing only from reputable suppliers. We can confirm that we have received confirmation from all our suppliers that their products adhere to this new ruling.

This policy is available for customers and members of the public on request or via our website www.brannan.co.uk

Signed:


Andrew Brannan
Joint Managing Director

Date: 16 April 2014



S Brannan & Sons Ltd
Leconfield Industrial Estate • Cleator Moor • Cumbria • CA25 5QE • UK



Brannan Environmental Policy

tel: +44 (0)1946 816600 fax: +44 (0)1946 816625 email: sales@brannan.co.uk web: www.brannan.co.uk

S.Brannan & Sons Limited recognises that its activities, products and services have an environmental impact at all stages of the product life cycle. We are committed to making continual reductions in this impact.

In order to achieve this objective S.Brannan & Sons Limited will:

- ensure efficient use of electricity and gas in production, lighting and heating.
- ensure efficient use of components, consumables and water.
- ensure efficient use of machinery and equipment through maintenance and repair.
- minimise all waste materials from production and administration activities.
- minimise pollution in the form of waste and emissions.
- minimise noise pollution.
- work with customers, suppliers and employees to raise awareness of environmental issues and to stress the importance of reducing our environmental impact.
- review and revise this policy as necessary at regular intervals.

The Company will comply with all relevant legislation and customer standards and conduct a regular review of its environmental impact with the aim of continuous improvement in all aspects of its operations.

This policy is available for customers and members of the public on request or via our website www.brannan.co.uk

Signed:


Andrew Brannan
Joint Managing Director

Date: 16 January 2013

S Brannan & Sons Ltd
Leconfield Industrial Estate • Cleator Moor • Cumbria • CA25 5QE • UK

Brannan Quality Policy

tel: +44 (0)1946 816600 fax: +44 (0)1946 816625 email: sales@brannan.co.uk web: www.brannan.co.uk

S.Brannan & Sons Limited has a proud reputation for delivering quality products and is totally committed to understanding and meeting the needs and expectations of all our customers.


In order to achieve this objective S.Brannan & Sons Limited will:

- actively promote the philosophy that quality is the responsibility of every employee and that customer satisfaction is paramount.
- conduct our business in a professional and ethical manner.
- deliver products and services on time and at the agreed price.
- ensure the quality of products and services through structured staff training and development.
- make informed business decisions based on data gathered from our processes.

The Company will comply with all relevant legislation and customer standards and conduct a regular review of its quality management system with the aim of continuous improvement in all aspects of its operations.

This policy is available for customers and members of the public on request or via our website www.brannan.co.uk

Signed:


Andrew Brannan
Joint Managing Director

Date: 16 April 2014



S Brannan & Sons Ltd
Leconfield Industrial Estate • Cleator Moor • Cumbria • CA25 5QE • UK



Brannan Ethical Policy

tel: +44 (0)1946 816600 fax: +44 (0)1946 816625 email: sales@brannan.co.uk web: www.brannan.co.uk

1 Scope

This Ethical Policy serves as a guideline for all the S.Brannan & Sons Ltd business activities and should be followed by all Brannan employees.

2 Working within the Law

Brannan will conform to all applicable laws and regulations in force in the country of operation and will not work with partners who break such laws and regulations.

3 Treating People Fairly

Brannan is committed to:

Treating employees, customers and business partners with respect and dignity
Providing safe working conditions

Ensuring no use of child labour, forced labour or prison labour

Brannan will not work with partners who do not uphold such commitments

Brannan has a specific Dignity at Work Policy.

Report any illegal or unethical behaviour - Any observed potentially illegal or unethical activity should be reported to a member of the Brannan management team immediately. Any substantiated reports of such behaviour will be accepted in good faith and will not result in retaliatory action against the informer.

4 Acting with Integrity

Brannan is committed to acting with integrity and in good faith at all times.

Avoid giving or receiving improper gifts - Brannan does not permit or condone the gift or receipt of any other than token gifts. Brannan has a specific Anti-Bribery Policy.

Market, sell and negotiate in good faith - Brannan does not permit or condone the use of misleading or dishonest marketing, selling or negotiating techniques.

Maintain confidentiality - Brannan's production methods, business methods, dealings with customers, sources of supply and other proprietary information are among our most valuable assets. Brannan is committed to safeguarding such company assets and providing confidentiality to its customers.

5 Ensuring Financial Probity

Brannan will ensure that its financial reporting accurately reflects the business transactions conducted and conforms with the applicable laws and regulations.

6 Annual Review

This policy will be annually reviewed for suitability and efficacy.

Signed:


Andrew Brannan
Joint Managing Director

Date: 30 November 2012

S Brannan & Sons Ltd
Leconfield Industrial Estate • Cleator Moor • Cumbria • CA25 5QE • UK

Rev 1 - 11/12



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twitter.com/Brannan_UK

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