



Scientific Catalogue

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

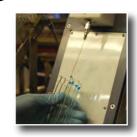




Measuring Success









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.

All our products carry a 2 year warranty.

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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Calibration Services



Laboratory Thermometers



Digital & Electronic Instrumentation



Special Application Instrumentation



Hydrometers





How to Contact Us





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.

WEBSITE

www.brannan.co.uk

EMAIL

sales@brannan.co.uk

PHONE

+ 44 (0)1946 816600

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ADDRESS

S.Brannan & Sons

Leconfield Industrial Estate Cleator Moor Cumbria UK CA25 5QE

















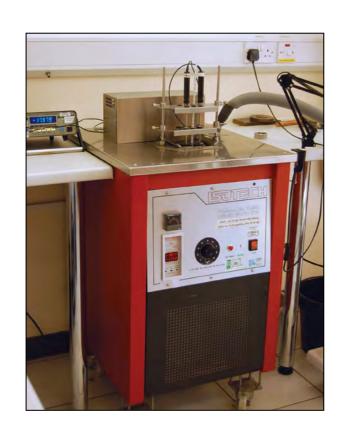
Calibration Services



(Brannan) Calibration Services

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	V	V
Dial Thermometers	✓	V
Electronic Thermometers with Indicators	V	V
Measurements of Temperature in Air	X	V
Surface Temperature	X	V
Infrared Thermometers	X	V
Environmental Meters (sound, light, etc)	X	V
Pressure Gauges/Instruments	V	V
Hydrometers*	V	V
Digital Timers*	V	V

^{*} Calibration of hydrometers and timers carried out at external laboratory

What is a Calibration & Why Calibrate

- Calibration is a procedure in which an instrument is tested to ensure it conforms with an appropriate standard (if applicable) and to verify the accuracy of an instrument.
- By comparing an instrument of a known value against a second instrument (unit under test), the differencecan 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.

JKAS 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





Calibration Services (Brannan)



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Services

www.brannan.co.uk

Brannan Calibration Services

Safe Packaging Service

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



• 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.

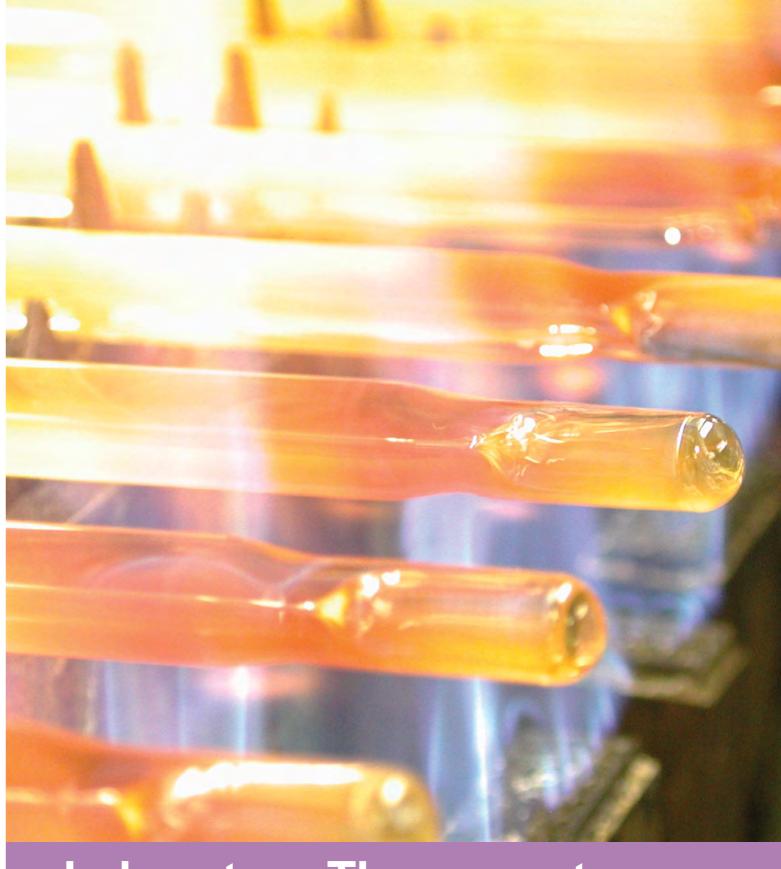
All our prices are competitive and quantity discounts may apply.

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









Laboratory Thermometers



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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

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.

Wide choice of thermometers

now prohibited, mercury thermometers.

Thermometers

aboratory

LO-tox[™] Laboratory Thermometers - Blue or brown filling

Brannan Laboratory Thermometers - Introduction

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

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

- **ECO-therm**™ Laboratory Thermometers Green filling
- General Purpose Spirit Laboratory Thermometers Red
- **Precision** Laboratory Thermometers complete with calibration certificate

Highly resistant to aggressive chemicals



Made in England

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





Non-roll device fitted

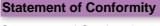
All thermometers fitted with either Brannan non-roll end cap which has a ring to allow the thermometer to be suspended, or a tri-top shaped thermometer end.



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

ECO-thermTM thermometers are supplied in telescopic tubes only.



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

Brannan General Purpose Liquid in Glass Thermometers

The European Commission's objective of reducing the circulation of mercury in society by cutting supply and demand meant that from October 2017 it became illegal throughout the EU to manufacture or supply mercury glass tube 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

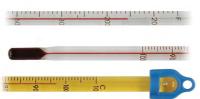
Brannan LO-*tox*[™] Laboratory Thermometers use a specially selected organic filling, normally coloured blue although certain ranges have a brown filling. Stable over a wide temperature span and providing the lowest practical level of hazard, the quality and legibility of these thermometers provide an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



Spirit Laboratory Thermometers

ECO-

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.



ECO-*therm*[™] Laboratory Thermometers

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.



Precision Specification Laboratory Thermometers

Following of the ban on specification mercury laboratory thermometers in October 2017, S.Brannan & Sons has developed a range of spirit filled, high precision thermometers. These thermometers are supplied complete with a traceable calibration certificate and are presented in a sturdy box for storage. The thermometers are made to the highest possible standards and are checked at every stage of manufacture to the requirements of our ISO 9001 Quality Management System. In addition to our standard checks, these High Precision Specification Thermometers are calibrated at two or three separate points across their working range.



LO-*tox*[™] Filled Laboratory Thermometers

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 individual, resealable, telescopic tubes then 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	D:::::::::	1	LO-tox	76mm lm	mersion	Total Imn	nersion
°C only	Division	Length	Colour	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 @ 90°C	44/830/7
-35 to +50°C	1.0°C	305mm	Blue	+/-1.0°C @ 90°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 @ 90°C	44/802/8	+/-1.0°C @ 90°C	44/810/8
-20 to +110°C	0.5°C	305mm	Blue	+/-1.0°C @ 90°C	44/802/9	+/-1.0°C @ 90°C	44/810/9
-20 to +150°C	1.0°C	305mm	Blue	+/-1.0°C @ 90°C	44/803/8	+/-1.0°C @ 90°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 @ 90°C	44/824/0	+/-0.4°C @ 90°C	44/825/0

Range	District and	1	LO-tox	76mm lm	mersion	Total Imr	nersion
°F only	Division	Length	Colour	Accuracy	Product No	Accuracy	Product No
-30 to +120°F	1.0°F	305mm	Blue	+/-2°F @ 95°F	44/801/5	+/-2°F @ 95°F	44/809/7
0 to +230°F	2.0°F	305mm	Blue	+/-2°F @ 194°F	44/802/7	+/-2°F @ 194°F	44/816/7
0 to +300°F	2.0°F	305mm	Blue	+/-2°F @ 194°F	44/803/7	+/-2°F @ 194°F	44/817/7
0 to +500°F	2.0°F	405mm	Blue	+/-2°F @ 194°F	44/804/7	+/-2°F @ 194°F	-

Range	Division I smath		LO-tox	76mm lm	mersion	Total Imr	nersion
°C&F	Division	Length	Colour	Accuracy	Product No	Accuracy	Product No
-20 to +110°C&F	1.0°C&F	305mm	Blue	+/-1.0°C @ 90°C	44/802/5	-	-
-20 to +150°C&F	1.0°C&F	305mm	Blue	+/-1.0°C @ 90°C	44/803/5	-	-
-10 to +260°C&F	1.0°C&F	405mm	Blue	+/-2.0°C @ 90°C	44/804/5	-	-

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Thermometers

Laboratory

boratory

Thermometers

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



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	Division	l an ath	Filling	76mm Immersion	
°C only	Division	Length	Colour	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	District	1	Filling	Total Imm	ersion
	°C only	Division	Length	Colour	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

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.



	30
Total Imm	ersion
Accuracy	Product No
.0°C @ 35°C	44/450/0
.5°C @ 35°C	44/430/0
.5°C @ 35°C	44/430/5#
.5°C @ 35°C	44/430/7
.5°C @ 35°C	44/105/2
.5°C @ 35°C	44/100/4
.0°C @ 35°C	44/442/0
-	-
.0°C @ 35°C	44/107/1
.0°C @ 35°C	44/100/5
2.0°C @ 0°C	46/440/0
2.0°C @ 0°C	46/456/0
2.0°C @ 0°C	46/438/0
.5°C @ 35°C	46/539/0
.5°C @ 35°C	44/401/1
.0°C @ 35°C	44/010/8*
-	-
.0°C @ 35°C	44/010/7

* Range: -20 to+150°C.

The tables below shows thermometers with yellow back glass.

Range	D::::::::::	Lameth	Filling	76mm Imr	nersion	Total Imm	ersion
°C only	Division	Length	Colour	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	D ::	1	Filling	76mm lmr	nersion	Total Imm	ersion
°C&F	Division	Length	Colour	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	-	-

Range			Filling	76mm Immersion Total Imm		Total Imm	ersion
°C only	Division	Length	Colour	Accuracy	Product No	Accuracy	Product No
-10 to +50°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	Green	-	-	+/-1.5°C @ 35°C	44/430/5#
-10 to +110°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	+/-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	Red	+/-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

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

Brannan Precision Laboratory Thermometers with Certification

GUARANTEE OF ACCURACY ISSUED BY : S. Brannan and Sons Limited 160912 -10 to 110°C +/- °C

Following of the ban on specification mercury laboratory thermometers in October 2017, S.Brannan & Sons has developed a range of spirit filled, high precision thermometers. These thermometers are supplied complete with a traceable calibration certificate and are presented in a sturdy box for storage. The thermometers are made to the highest possible standards and are checked at every stage of manufacture to the requirements of our ISO 9001 Quality Management System.

In addition to our standard checks, these High Precision Specification Thermometers are calibrated at two or three separate points across their working range.

This range of thermometers are fully manufactured and certified in our factory in the UK and delivery is available within 7 working days.





Filling	Tube	Tube Range Divs Product Number		Number	No of	
9	Length	Kungo	DIVO	76mm Immersion	Total Immersion	Points*
		0 to +40°C	0.1°C	50/500/0	50/510/0	
		0 to +40°C	0.2°C	50/501/0	50/511/0	2 pts
	405	-1 to +51°C	0.1°C	50/502/0	50/512/0	1 2 μιδ
	405mm	-1 to +51°C	0.2°C	50/503/0	50/513/0	
		-1 to +101°C	0.2°C	50/504/0	50/514/0	
		-1 to +201°C	0.5°C	50/505/0	50/515/0	3 pts
Blue		-1 to +250°C	0.5°C	50/506/0	50/516/0	
Spirit		-35 to +50°C	0.5°C	50/520/0	50/525/0	2 pts
	305mm	-20 to +110°C	0.5°C	50/521/0	50/526/0	3 pts
	30311111	-20 to +150°C	0.5°C	50/522/0	50/527/0] 0 pts
		-10 to +50°C	0.5°C	50/523/0	50/528/0	2 pts
		-10 to +110°C	1.0°C	50/530/0	50/535/0	3 pts
	205mm	-10 to +150°C	1.0°C	50/531/0	50/536/0	J plo
		0 to +40°C	1.0°C	50/532/0	50/537/0	2 pts
Red Spirit	Pad Spirit	-100 to +50°C	1.0°C	50/550/0	50/555/0	
Low Range	305mm	-80 to +30°C	1.0°C	50/551/0	50/556/0	2 pts
Low Name		-50 to +50°C	1.0°C	50/552/0	50/557/0]

^{*} Calibration points for two point calibration are 0 & 35°C. Calibration points for three point calibration are 0, 35 & 90°C.

SAMA Type General Purpose Spirit Thermometers

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	Division	Length	Immersion	Accuracy	*SAMA	Product
°C only	Division	Lengui	IIIIIIICI SIOII	Addulady	Number	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*

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

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

boratory

Thermometer

Laboratory

Brannan breaksafe™ FEP Coated Laboratory Thermometers

In order to offer high levels of thermometer protection, we provide a Fluoro Ethylene Propylene (FEP) 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 FEP 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 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











Range	District and	1			Total Imm	ersion		
°C only	Division	Length	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		
		Yellov	w 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

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 Fluoro Ethylene Polylene (FEP) 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 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.



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	5		76mm lmn	nersion	Total Imm	ersion		
°C only	Division	Length	Accuracy	Product No	Accuracy	Product No		
		White	e Back with Blue	LO- <i>tox</i> ™ Fill	ing			
-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		
		Yellov	w 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 <i>initial</i> ™ Brand* Thermometers - Green Filling							



1.0°C

-10 to +110°C

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

44/425/0

200mm +/-1.5°C @ 35°C

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Thermometers



Brannan inital[™] Brand Laboratory Thermometers

Educational Products (Brannan

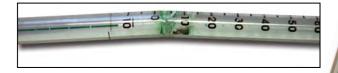
The *initial*™ Brand range of laboratory thermometers offer a significant saving on our range of standard thermometers while making no compromises to the traditional Brannan quality and accuracy. This entry level range is now available in a choice of red, green or blue spirit filling and have Tri-top,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

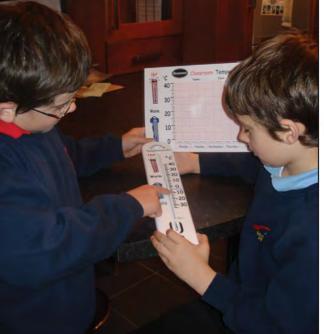
The *initial*™ Brand Thermometers are supplied as standard in protective PVC packaging in pack of 10 thermometers.



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	5		Filling	76mm lmi	mersion	Total Imme	rsion
°C only	Division	Length	Colour	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	d <i>initial</i> ™ Bra	nd* Thermomete	ers - Green Fi	illing	
-10 to +110°C	1.0°C	200mm	Green	+/-1.5°C @ 35°C	44/425/0	-	
		Uncalibr	ated Thermo	meters (for stud	ent calibratio	n)	
Covers F	Range	305mm	Red	-	46/603/0	-	-
-10 to+1	•	305mm	Green	-	46/603/5	-	-
-10 10+1	10 0	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

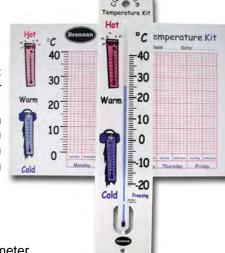
25/701/0

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

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boratory **Thermometers**

Brannan Spirit ASTM Equivalent Thermometers

Spirit ASTM Equivalent Thermometers (Brannan

aboratory

Thermometers

The following thermometers have been developed (product references 55/---/-)as spirit filled alternatives to the standard mercury filled ASTM thermometers. 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.

A range of IP equivalent thermometers are also being developed (product references 56/---/-). Please ask our Sales Team for information.



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

* Gallium	filled
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Equivalent	Name	Range	Division	Max	Immersion	Product
ASTM Number				Length		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 Analine Point	+90 to +170°C	0.2°C	425mm	50mm	55/035/2
35F	High Analine 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	55/046/2
46F	Kinematic Viscosity	+119.5 to +124.5°F	0.1°F	310mm	Total	55/046/1
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	0.1°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	0.02 C 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					†	
S59F	Tank Tank	+18 to +82°C 0 to +180°F	0.5°C 1.0°F	305mm 305mm	57mm 57mm	55/059/2 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 * Gallium filled

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Brannan Spirit ASTM Equivalent Thermometers

Spirit ASTM Equivalent Thermometers (Brannan)



Equivalent ASTM Number	Name	Ran	ige	Division	Max	Immersion	Product
	Description			0.400	Length	Total	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 S65F	Precision	+50 to	+80°C	0.1°C	384mm	Total	55/065/2
S66C	Precision Precision	+122 to	+176°F	0.2°F	384mm	Total	55/065/1
S66F		+75 to	+105°C	0.1°C	384mm	Total	55/066/2 55/066/1
S67C	Precision	+167 to	+221°F	0.2°F	384mm	Total	
S67F	Precision Precision	+95 to	+155°C +311°F	0.2°C 0.5°F	384mm 384mm	Total Total	55/067/2 55/067/1
68C	Precision	+203 to +145 to	+311 F +205°C	0.5 F	384mm	Total	55/067/1
68F	Precision	+143 to +293 to	+401°F	0.2 C 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	-37 to	+70°F	1.0°F	360mm	76mm	55/071/2
710 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	0.03 C	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	0.03 C	310mm	Total	55/073/2
75F	Coolant (Anti-Freeze) Freezing	-35 to	+35°F	0.1 T	413mm	100mm	55/075/1
751	Point	-33 10	T00 I	0.5 1	413111111	100111111	33/073/1
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	+120 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 Weathering Toot	+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 * Gallium filled

-	Gall	Ium	TIIIE

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.

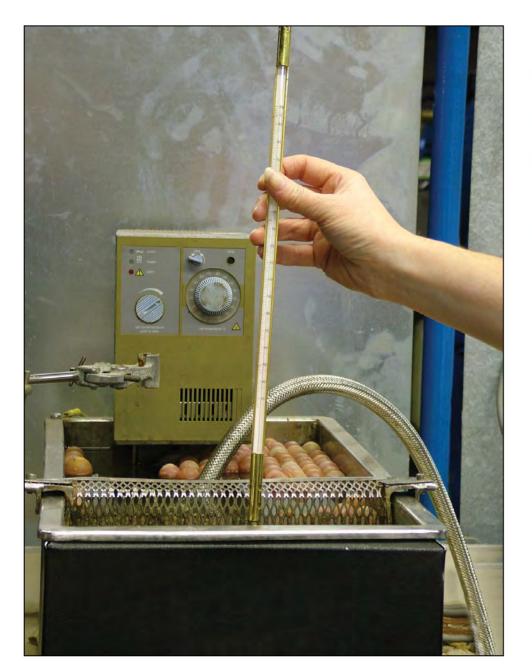
Our facilities conform to (BS) EN ISO/IEC 17025:2005 -'General requirements for the competence of testing and calibration laboratories'. For temperature measurement our laboratory can calibrate all types of liquid-in-glass thermometers i.e. both spirit and mercury. Certification is available for test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



Brannan 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.

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







Digital & Electronic Instrumentation

Probe Thermometers Rem
Max Min Thermometers Infra
Environmental Instrumentation Thermometers Data
Timers, Stopwatches & Tally Counters

Remote Reading Thermometers
Infrared Instrumentation
Thermocouple Thermometers
Data Loggers

Brannan

Digital & Electronic Instruments - Intoduction

All **Brannan** instruments are supplied complete with battery and full instructions and are CE, WEEE and RoHS compliant.

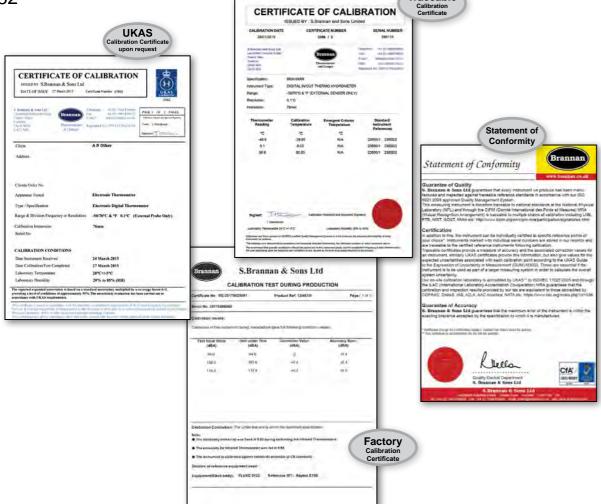
Full certification is available via our website.



UKAS CALIBRATION

All electronic instruments can be supplied with certificate traceable to Recognised National Standard or a Statement of Conformity, if required and a wide range of our instruments can be supplied with UKAS Calibration Certification. In addition, our environmental range of instruments and our Infrared thermometers are supplied complete with factory calibration certificate. Please contact us for advice on the most appropriate certification for your instrument and for quotation.

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Environmental Instrumentation - Mini Meters Range

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 Factory Certificate of Calibration, battery and full

Full certification is available via our website.



1. Mini Thermo-Anemometer Wind speed meter to

instructions. All electronic instruments are CE, WEEE and RoHS compliant.

measure air velocity with colour LCD. User selectable units. max/min and data hold functions.

Ranges: 0.4 to 30 m/s 1.4 to 108 km/s 0.9 to 67 Mph 0.8 to 88 knots 80 to 5900 ft/min -20 to +70°C&F

Accuracy: +/-3% rdg & +/-1.5°C Dimensions: 178.5 x 56 x 30.5mm LCD Dimensions: 30 x 28mm 13/470/0

3 point Traceable Calibration available on request: 49/705/0 (Additional charge applies)

 ϵ RoHS **WEEE**



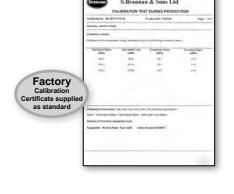
3. Mini Thermo-Light

measure illuminance. Silicone photo-diode with spectral response filter. Features include max/min recording, colour LCD and user

0 to 20kFc

LCD Dimensions: 30 x 28mm

3 point Traceable Calibration (Additional charge applies)



2. Mini Thermo-**Sound Level Meter**

Mini meter to measure sound level with colour LCD. Max/min and data hold functions. Ranges: 35 to 135dB

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lectronic

-20 to +70°C&F Accuracy: 2.0dB

Dimensions: 144 x 56 x 30.5mm LCD Dimensions: 30 x 28mm 13/471/0

3 point Traceable Calibration available on request: 49/706/0 (Additional charge applies)



-20 to +70°C&F Accuracy*: +/- 3% rdg Dimensions: 174.5 x 56 x 30.5mm 13/472/0

available on request: 49/707/0



4. Mini Thermo-Humidity 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 and colour LCD. Ranges: 0 to 100%RH

-20 to +70°C&F Accuracy*: +/- 1°C / 3.5%RH Dimensions: 168 x 56 x 30.5mm

LCD Dimensions: 30 x 28mm 13/473/0

3 point Traceable Calibration available on request: 49/708/0 (Additional charge applies)

Description	Range		Basic	Other	LCD	Product	Product
			Accuracy*	Functions	Dimensions	Dimensions	Number
Mini Anemometer	0.4 to 30 m/s,	1.4 to 108 km/s	+/- 3% rdg	Max/min, data hold	30 x 28mm	178.5 x 56 x 30.5mm	13/470/0
	0.9 to 67 Mph	0.8 to 88 knots,					
2. Mini Sound Level Meter	35 to 135dB,		+/-2.0db	Max/min & data hold	30 x 28mm	144 x 56 x 30.5mm	13/471/0
3. Mini Light Meter	0 to 200 klux,	0 & 20 kFc	+/- 3% rdg	Max/min & data hold	30 x 28mm	174.5 x 56 x 30.5mm	13/472/0
4. Mini Humidity	Humidity:	0 to 100%RH	+/- 2%RH	Max/min, data hold	30 x 28mm	168 x 56 x 30.5mm	13/473/0
Temperature Meter	Temp:	-30 to 70°C&F	+/- 2.5°C&F				

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

Environmental Instrumentation - Professional Range

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 with battery and full instructions and come complete with Certificate of Calibration.

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



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/hr 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

3 point Traceable Calibration available on request: 49/700/0 (Additional charge applies)





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

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RoHS

Dimensions: 252 x 66 x 33mm

LCD Dimensions: 55 x 45mm 13/461/0

2 point Traceable Calibration available on request: 49/701/0 (Additional charge applies)

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 +/-10dgts (>10,000 Lux)

Dimensions: 185 x 66 x 33mm LCD Dimensions: 55 x 45mm 13/462/0

3 point Traceable Calibration available on request: 49/702/0

(Additional charge applies)



Environmental Instrumentation - Professional Range

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

3 point Traceable Calibration available on request: 49/703/0

(Additional charge applies)

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.

-40 to +70°C&F Temp Range:

Temp Accuracy: +/-2°C

Humidity Range: 10 to 95%RH Humidity Accuracy: +/-5%RH

Sound Meter Range: 35 to 130 dB Sound Meter Accuracy: +/-2dB Light Range: 0 to 400kLux,

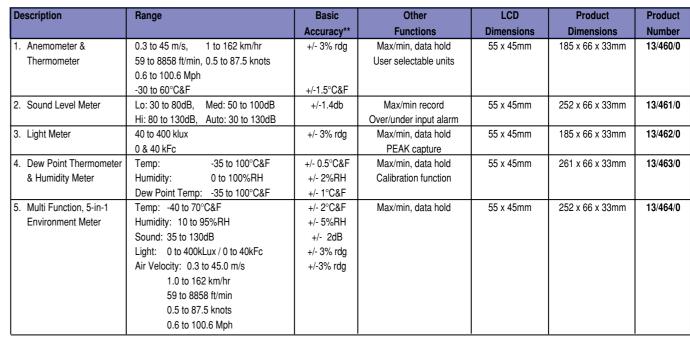
0 to 40kFc

Light Accuracy*: +/- 3% rdg +/-0.5%f.s Air Velocity Range: 0.3 to 45.0 m/s

1.0 to 162 km/hr 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

3 point Traceable Calibration available on request: 49/704/0 (Additional charge applies)



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Digital

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Electronic

Replacement

Carry Case

13/092/0

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

Environmental Instrumentation - 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.





An easy to use, hand held, anemometer with lanyard and protective rubber casing, 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: 108 x 44 x 20mm LCD Dimensions: 23 x 32mm

13/430/0



(€ RoHS **WEEE**



3. Mini Thermo-Anemometer

Wind speed meter to measure air velocity with colour LCD. User selectable units,

max/min and data hold functions. Ranges: 0.4 to 30 m/s

1.4 to 108 km/s 0.9 to 67 Mph 0.8 to 88 knots

80 to 5900 ft/min -20 to +70°C&F

Accuracy*: +/-3% rdg & +/-1.5°C Dimensions: 178.5 x 56 x 30.5mm LCD Dimensions: 30 x 28mm 13/470/0

3 point Traceable Calibration available on request: 49/705/0

(Additional charge applies)



2. 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/hr 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 3 point Traceable Calibration

available on request: 49/700/0* (Additional charge applies)



See also Multi-Function Meter 13/464/0 opposite

Description	Measurement Ranges			Basic	LCD	Product	Product
	Wind 9	Speed	Temperature	Accuracy*	Dimensions	Dimensions	Number
Pocket Anemometer	0 to 30 m/sec	0 to 90 km/hour	-10 to 45°C&F	+/- 5% rdg	23 x 32mm	105 x 40 x 15mm	13/430/0
& Thermometer				+/- 2°C			
2. Professional	0.3 to 45 m/s	1 to 162 km/hr	-30 to 60°C&F	+/- 3% rdg	55 x 45mm	185 x 66 x 33mm	13/460/0
Anemometer &	0.5 to 87.5 knots	59 to 8858 ft/min		+/-1.5°C&F			
Thermometer	0.6 to 100.6 Mph						
3. Mini Thermo-	0.4 to 30 m/s	1.4 to 108 km/s	-20 to 70°C&F	+/- 3% rdg	30 x 28mm	178.5 x 56 x 30.5mm	13/470/0
Anemometer	0.9 to 67 Mph	0.8 to 88 knots					

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Environmental Instrumentation - Sound Level Meters

The following instruments 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.



617 2. Mini Thermo-Sound **Level Meter** 1 m Mini meter to measure sound

level with colour LCD. Max/min and data hold functions. Ranges: 35 to 135dB -20 to +70°C&F

Accuracy: 2.0dB

Dimensions: 144 x 56 x 30.5mm LCD Dimensions: 30 x 28mm 13/471/0

3 point Traceable Calibration available on request: 49/706/0 (Additional charge applies)

Temp Range: -40 to +70°C&F

Humidity Range: 10 to 95%RH

Light Range: 0 to 400kLux,

Sound Meter Range: 35 to 130 dB

0 to 40kFc

Air Velocity Range: 0.3 to 45.0 m/s

3. Profession 5-in-1 Environment Meter

and temperature, suitable for professional and home use.

1.0 to 162 km/hr

59 to 8858 ft/min

0.5 to 87.5 knots

0.6 to 100.6 Mph



1. Professional **Sound Level Meter**

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

3 point Traceable Calibration available on request: 49/701/0 (Additional charge applies)



Traceable

Digital

Qo Ш

lectronic





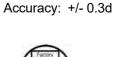
Accuracy: +/-2°C

Accuracy: +/-2dB

Accuracy: +/-5%RH

Accuracy: +/- 3% rdg

+/-0.5%f.s



Dimensions: 252 x 66 x 33mm LCD Dimensions: 55 x 45mm

13/464/0

3 point Traceable Calibration available on request: 49/704/0 (Additional charge applies)

Description	Range	Basic	Other	LCD	Product	Product
		Accuracy**	Functions	Dimensions	Dimensions	Number
Professional Sound	Lo: 30 to 80dB, Med: 50 to 100dB	+/-1.4db	Max/min record	55 x 45mm	252 x 66 x 33mm	13/461/0
Level Meter	Hi: 80 to 130dB, Auto: 30 to 130dB		Over/under input alarm			
2. Mini Sound Level Meter	Sound: 35 to 135dB	+/-2.0db	Max/min recording &	30 x 28mm	144 x 56 x 30.5mm	13/471/0
	Temp: -20 to 70°C&F	+/-3°C	data hold			
3. Professional 5-in-1	Temp: -40 to 70°C&F	+/- 2°C&F	Max/min, data hold	55 x 45mm	252 x 66 x 33mm	13/464/0
Environment Meter	Humidity: 10 to 95%RH	+/- 5%RH				
	Sound: 35 to 130dB	+/- 2dB				
	Light: 0 to 400kLux / 0 to 40kFc	+/- 3% rdg				
	Air Velocity: 0.3 to 45.0 m/s	+/-3% rdg				
	1.0 to 162 km/hr					
	59 to 8858 ft/min					
	0.5 to 87.5 knots					
	0.6 to 100.6 Mph					

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

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

Environmental Instrumentation - Light Meters

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.



1. 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

3 point Traceable Calibration available on request: 49/702/0 (Additional charge applies)

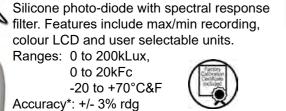




2. Mini Thermo-Light Meter







Dimensions: 174.5 x 56 x 30.5mm LCD Dimensions: 30 x 28mm 13/472/0

Hand held meter to measure illuminance.

3 point Traceable Calibration available

on request: 49/707/0 (Additional charge applies)

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See also
Multi-Function Meter
13/464/0 opposite

Description	Range	Basic	Basic Other		Product	Product
		Accuracy*	Functions	Dimensions	Dimensions	Number
Professional Light Meter	40 to 400 kLux	+/- 3% rdg	Max/min, data hold	55 x 45mm	185 x 66 x 33mm	13/462/0
	0 & 40 kFc		PEAK capture			
3. Mini Thermo-Light Meter	0 to 200 kLux 0 & 20 kFc	+/- 3% rdg	Max/min recording & data hold	30 x 28mm	174.5 x 56 x 30.5mm	13/472/0
	0 & 20 kFc		& data hold			

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

Environmental Instrumentation - Thermo-Humidity Meters

Digital

Qo

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lectronic

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.

1. 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 Accuracy*: +/-2%RH Temperature Range: -35 to +100°C&F Accuracy*: 0.5°C

Dimensions: 225 x 45 x 34mm LCD Dimensions: 25 x 27mm

13/463/0

3 point Traceable Calibration available on request: 49/703/0 (Additional charge applies)

2. Mini Thermo-Humidity 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 and colour LCD.

Ranges: 0 to 100%RH, -20 to +70°C&F Accuracy*: 3.5%RH / +/- 1°C

Dimensions: 168 x 56 x 30.5mm LCD Dimensions: 30 x 28mm

13/473/0

Accuracy: +/- 3% rdg

Accuracy: +/- 0.3d

+/-0.5%f.s

3 point Traceable Calibration available on request: 49/708/0

2500

(Additional charge applies)



283

OF SET

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 Accuracy: +/-2°C Humidity Range: 10 to 95%RH Accuracy: +/-5%RH Sound Meter Range: 35 to 130 dB Accuracy: +/-2dB

0 to 40kFc

Air Velocity Range: 0.3 to 45.0 m/s 1.0 to 162 km/hr

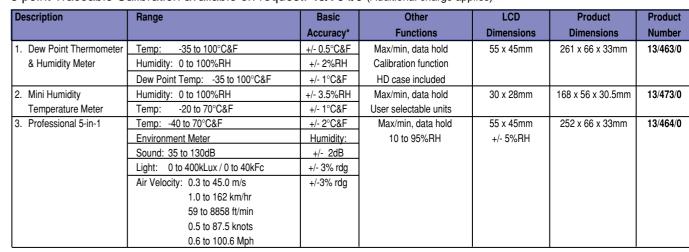
Light Range: 0 to 400kLux,

59 to 8858 ft/min 0.5 to 87.5 knots 0.6 to 100.6 Mph

Dimensions: 252 x 66 x 33mm LCD Dimensions: 55 x 45mm

13/464/0

3 point Traceable Calibration available on request: 49/704/0 (Additional charge applies)



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

Electronic Probe Test Thermometers

Electronic Probe Test Thermometers

fixtures.

8. Hand Held Thermometer

Range: -50 to +200°C&F

Robust 125mm stainless steel probe

connected by a 1.5m lead. Temperature

Complete with hanger, stand and magnetic

Accuracy*: +/-1°C between -50 and 100°C

hold and max/min recording functions.

Replacement probes also available.

Digital

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lectronic

The following is our range of digital probe thermometers and are 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 thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity

on request (for an additional charge).



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

LCD Dimensions: 9 x 16mm

31/155/0



1. Swivel Head Pocket Test **Thermometer**

Pocket test thermometer with 125mm 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

3. Vertical Barrel Test

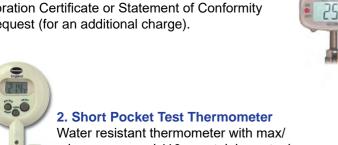
Range: -50 to +150°C&F

and 120°C

LCD Dimensions: 7 x 17mm

Thermometer

case and clip.



Dimensions: 175 x 48 x 15mm



4. 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



31/160/0

5. 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



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



7. Folding Probe Test Thermometer

Probe thermometer with data hold function and 85mm stainless steel probe which folds in and out of the body of the thermometer for protection.

Waterproof to IP65. Range: -50 to +250°C&F

Dimensions: 45 x 125 x 18mm (closed)

LCD Dimensions: 15 x 32mm

31/175/0

9. 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



Dimensions: 97 x 65 x 20mm LCD Dimensions: 16 x 36mm 38/650/0 Replacement Probe - 38/650/1





Thermometer Description	Range	Basic Accuracy*	Max/Min Function	Water Resistant	Probe Length	LCD Dimensions	Product Dimensions	Product Number
Swivel Head Pocket Test	-45 to +200°C&F	+/-1°C	Х	Х	125mm	10 x 20mm	145 x 34 x 30mm	31/147/0
2. Short Test	-10 to +200°C&F	+/-2°C	1	1	110mm	9 x 16mm	175 x 48 x 15mm	31/155/0
Vertical Barrel	-50 to +150°C&F	+/-1°C	Х	Х	120mm	7 x 17mm	195 x 21 x 21mm	31/160/0
4. Horizontal Barrel	-50 to +150°C&F	+/-1°C	Х	Х	120mm	7 x 17mm	152 x 58 x 20mm	31/161/0
5. Waterproof	-40 to +240°C&F	+/-1°C	1	1	120mm	7 x 17mm	200 x 20 x 15mm	31/162/0
6. Waterproof	-40 to +250°C&F	+/-1°C	1	1	115mm	15 x 25mm	212 x 36 x 16mm	31/164/0
7. Folding Probe	-50 to +250°C&F	+/-1°C	Х	1	85mm	15 x 32mm	45 x 125 x 18mm	31/175/0
8. Hand Held	-50 to +200°C&F	+/-1°C	1	Х	1.5m	16 x 36mm	97 x 65 x 20mm	38/650/0
Replacement Probe	-	-	-	-	1.5m	-	-	38/650/1
9. Hand Held	-50 to +300°C&F	+/-2°C	1	Х	1.0m	16 x 36mm	97 x 65 x 20mm	38/660/0
9. 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.

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. Probe thermometers can be supplied with UKAS Calibration Certificate or Statement of Conformity on request (for an additional charge).

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



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

Electronic

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Digital

2. 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 thermocouples 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 opposite page. This instrument co-ordinates with our Professional Environmental Range. Range: -200 to +1372°C&F Accuracy*: +/-1°C&F

Dimensions: 184 x 66 x 33mm LCD Dimensions: 55 x 45mm

38/685/0

RoHS WEEE



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 complete with Factory Certificate of Calibration

and in heavy duty protective bag. Dimensions: 192 x 97 x 59mm LCD Dimensions: 35 x 35mm

Standard Range

D:S Ratio:13:1 Range: -50 to +500°C&F

K-type Range: -50 to +1370°C&F

Accuracy*: +/-2°C 38/705/0

High Range D:S Ratio:30:1

Range: -50 to +1050°C&F K-type Range: -50 to +1370°C&F

Accuracy*: +/-2°C 38/706/0

3 point Traceable Calibration available on request: 49/709/0 (Additional charge applies)

Description	Range	Basic	Included	LCD	Product	Product
		Accuracy*	Probe	Dimensions	Dimensions	Number
1. Waterproof PT100 Thermometer	Probe: -100 to 300°C&F	+/-0.4°C	PT100	40 x 40mm	150 x 66 x 31mm	38/670/0
2. K-type / J-Type 4-Input	Probe: -200 to 1372°C&F	+/-1°C	4 x K-Type	55 x 45mm	184 x 66 x 33mm	38/685/0
Thermocouple Thermometer						
3. Dual Laser Infrared Thermometer	Infrared: -50 to 500°C&F	+/-2°C	K-Type	35 x 35mm	192 x 97 x 59mm	38/705/0
	K-Type: -50 to 1370°C&F					
	Infrared: -50 to 1050°C&F	+/-2°C	K-Type	35 x 35mm	192 x 97 x 59mm	38/706/0
	K-Type: -50 to 1370°C&F					

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

K-Type Probes (Brannan)

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. The stainless steel 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

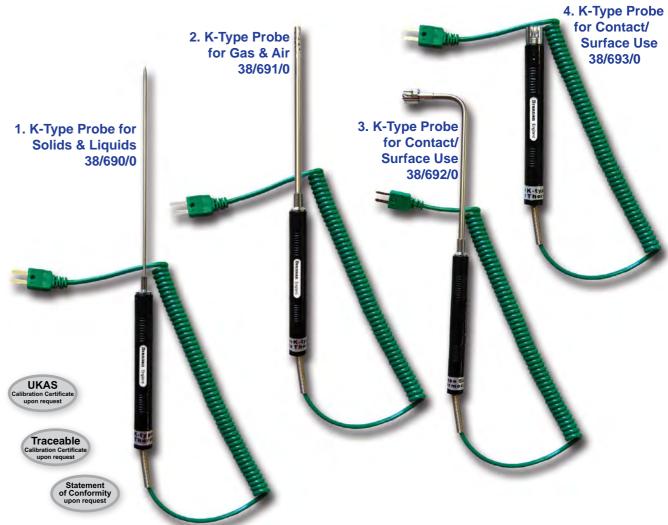
4. K-Type Probe for Contact/Surface Use

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



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.

Description	Range	Handle Length	Probe Length	Overall Dimensions	Product Number
K-Type for Solids & Liquids	-50 to +800°C&F	130mm	200mm	330 x 16 x 16mm	38/690/0
2. K-Type for Gas & Air	-50 to +800°C&F	130mm	165mm	295 x 16 x 16mm	38/691/0
K-Type for Contact & Surface Use	-50 to +450°C&F	130mm	210mm	395 x 65 x 16mm	38/692/0
4. K-Type for Contact & Surface Use (no probe)	-50 to +450°C&F	115mm	-	145 x 15 x 15mm	38/693/0

Digital Maximum Minimum Thermometers

Digital Maximum Minimum Thermometers Brannan

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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.





(€ RoHS **WEEE**



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



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





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

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

Thermometer Description	Range	Basic Accuracy*	LCD Dimensions	Product Dimensions	Product Number
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.

Max/Min Instruments

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1. Wireless Max/Min Thermometer & Hygrometer

Wireless max min thermometer and humidity meter with large LCD. Supplied with 1pc remote sensor but suitable for use with up to 3 sensors (available separately).

Temperature Range: 0 to +50°C&F (indoor)

-40 to +70°C&F (outdoor)

Hygrometer Range: 0 to 99%RH

Accuracy*: +/-1°C

Dimensions: Receiver - 98 x 70 x 23mm Transmitter - 110 x 46 x 20mm

LCD Dimensions: 43 x 52mm

12/435/3

DIGITAL

Additional Sensors: 12/436/0



2. 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

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

Replacement Probe - 12/412/1



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



3. 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

Dimensions: 175 x 48 x 15mm LCD Dimensions: 9 x 16mm

31/155/0

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 Dimensions: 97 x 65 x 20mm LCD Dimensions: 16 x 36mm x 2 38/660/0

Replacement Probe - 38/660/1

(€ RoHS

Thermometer Description	Range	•			Product	Product		
	Indoor	Remote	Accuracy*	Function	Probe	Dimensions	Dimensions	Number
Wireless Max/Min	0 to +50°C&F/0-99%RH	-40 to +70°C&F	1°C	✓	n/a	43 x 52mm	98 x 70 x 23mm	12/435/3
Additional Sensor	0 to +50°C&F	-40 to +70°C&F	1°C	✓	n/a	n/a	110 x 46 x 20mm	12/436/0
2. 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
Replacement Probe	-	-		Х	2.5m	-	-	12/412/1
Short Test Thermometer	-10 to +200°C&F	-	2°C	√	110mm	9 x 16mm	175 x 48 x 15mm	31/155/0
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	1.0m	16 x 36mm	97 x 65 x 20mm	38/660/0
5. Replacement Probe	-	-	-	Х	1.0m	-	-	38/660/1

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

Remote Reading Instruments

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 Calibration Certificate traceable to National Standard. UKAS calibration certificate if available for external probes, if required.

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

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.



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RoHS

WEEE

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

Dimensions: 98 x 74 x 17mm LCD Dimensions: 35 x 52mm

12/412/3

Replacement Probe - 12/412/1



2. Weatherstation

Max/min thermometer with silvered front and black trim. Large display with simultaneous reading of 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

Dimensions: 98 x 74 x 17mm LCD Dimensions: 35 x 52mm

UKAS Calibration Certificate



13/420/3 Replacement Probe - 13/420/4

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

Replacement Probe - 12/421/1



Outdoor

4. Indoor/

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 Accuracv*: +/-1°C

Dimensions: 51 x 72 x 19mm LCD Dimensions: 13 x 32mm

14/437/3

Thermometer	Range			Basic Temp.	Max/Min	Cable	LCD	Product	Product
Description	Indoor	Remote	Humidity	Accuracy*	Function	Length	Dimensions	Dimensions	Number
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
Replacement Probe	-	-	-	-	-	2.5m	-	-	12/412/1
2. Weatherstation	0 to +50°C&F	-20 to +70°C&F	20 to 99%RH	+/-1°C	1	2.0m	35 x 52mm	98 x 74 x 17mm	13/420/3
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	X	2.0m	60 x 80mm	103 x 98 x 21mm	12/421/3
3. Replacement Probe	-	-	-	-	-	2.0m	-	-	13/421/1
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

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

Remote Reading Instruments (Brannan)

1. 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

Dimensions: 25 x 135 x 20mm LCD Dimensions: 12 x 58mm

22/400/3



2. 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

Dimensions: 63 x 63 x 15mm LCD Dimensions: 21 x 47mm

22/420/3





WEEE

Digital

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Electronic

3. Twin Reading Thermometer & Humidity Meter

Instrument to measure indoor and outdoor temperature and humidity. Max/min recording. Main body includes magnet, clip and stand.

2 x 1m cables.

Temperature Range: -50 to +70°C&F Humidity Range: 10 to 95% RH Accuracy*: +/-1°C / +/- 5%RH Dimensions: 63 x 63 x 22mm LCD Dimensions: 22 x 40mm

22/425/3

3. Wireless Max/Min Thermometer & Hygrometer



large LCD. Supplied with 1pc remote sensor but suitable for use with up to 3psc sensors (available separately). Indoor Range: 0 to +50°C&F Outdoor Range: -40 to +70°C&F

> Hygrometer Range: 0 to 99%RH Accuracy*: +/-1°C

Dimensions: Receiver - 98 x 70 x 23mm

Transmitter - 110 x 46 x 20mm LCD Dimensions: 43 x 52mm

12/435/3

Additional Sensors: 12/436/0





Thermometer		Range		Basic	Max/Min	Cable	LCD	Product	Product
Description	Indoor	Remote	Humidity	Accuracy*	Function	Length	Dimensions	Dimensions	Number
Fridge or Freezer	-50 to +70°C&F	-50 to +70°C&F	-	+/-1°C	Х	1.0m	12 x 58mm	25 x 135 x 20mm	22/400/3
Twin Rdg Thermom.	-50 to +70°C&F	-50 to +70°C&F	-	+/-1°C	1	2.0m	21 x 47mm	63 x 63 x 15mm	22/420/3
3. Twin Rdg. Thermo-Hygrom	-10 to +70°C&F	-50 to +70°C&F	10 to 95%RH	+/-1°C/5%RH	1	2 x 1.0m	22 x 40mm	63 x 63 x 22mm	22/425/3
Wireless Max Min	0 to +50°C&F	-40 to +70°C&F	0 to 99%RH	+/-1°C/5%RH	1	-	43 x 52mm	98 x 70 x 23mm	12/435/3
Additional Transmitters	0 to +50°C&F	-40 to +70°C&F	0 to 99%RH	+/-1°C/5%RH	1	-		110 x 46 x 20mm	12/436/0

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

Infrared Thermometers

Brannan offer a wide range of infrared instruments for a variety of applications. The meters' field of view, or Distance to Spot (D:S) indicates the distance required from the target spot. For example, where the field of view is 30:1, the product should be 30cm from the target area. The diameter of the target must be at least 1cm. The instruments 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.



1. 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



2. Standard Infrared Thermometer

A simple and stable instrument providing easy and safe temperature measurement with built in laser targeting and Max Min recording function. Available in two temperature ranges. Supplied complete with Factory Certificate of Calibration.

D:S Ratio: 13:1

Range: -50 to +350°C&F 38/701/0 Range: -50 to +550°C&F 38/702/0

Accuracy*: +/-2°C

Dimensions: 155.5 x 98.8 x 27.5mm

LCD Dimensions: 19 x 26mm 3 point Traceable Calibration available on

request: 49/709/0 (Additional charge applies)



Infrared thermometer with 13 laser spots to increase targeting accuracy. Max Min recording function and adjustible emissivity from 0.1 to 1.0.

Supplied complete with protective bag and Factory Certificate of Calibration.

D:S Ratio: 30:1

Range: -30 to +950°C&F Accuracy*: +/-2°C

Dimensions: 155 x 99 x 27mm LCD Dimensions: 30 x 26mm 38/707/0

3 point Traceable Calibration available on request: 49/709/0 (Additional charge applies)





RoHS WEEE

3. Compact **Infrared Thermometers**

Simple and compact instruments with built in laser targeting. Choice of two temperature ranges. Supplied complete with

Factory Certificate of Calibration. D:S Ratio: 12:1

Range: -50 to +500°C&F 38/703/0 Range: -50 to +800°C&F 38/704/0

Accuracy*: +/-2°C

Dimensions: 134 x 89 x 36mm LCD Dimensions: 25 x 25mm

3 point Traceable Calibration available on request: 49/709/0 (Additional charge applies)

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D	escription	Range	Distance to Spot Ratio	Basic Accuracy*	Max/Min Function	LCD Dimensions	Product Dimensions	Product Number
1.	Pocket Infrared	-35 to +230°C&F	1:1	+/-2°C	Х	14 x 24mm	75 x 40 x 20mm	38/720/0
2.	Standard Infrared	-50 to +350°C&F	13:1	+/-2°C	✓	19 x 26mm	155.5 x 98.8 x 27.5mm	38/701/0
	Thermometers	-50 to +550°C&F	13:1	+/-2°C	✓	19 x 26mm	155.5 x 98.8 x 27.5mm	38/702/0
3.	Compact Infrared	-50 to +500°C&F	12:1	+/-2°C	Х	25 x 25mm	134 x 89 x 36mm	38/703/0
	Thermometers	-50 to +800°C&F	12:1	+/-2°C	Х	25 x 25mm	134 x 89 x 36mm	38/704/0
4.	Multi-Spot Laser Infrared	-30 to +950°C&F	30:1	+/-2°C	1	30 x 26mm	155 x 99 x 27mm	38/707/0

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

Infrared Thermometers & K-Type Probes (Brannan)

Dual Laser Infrared Thermometer

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 complete with Factory Certificate of Calibration and in heavy duty protective bag.

Dimensions: 192 x 97 x 59mm LCD Dimensions: 35 x 35mm

Standard Range

D:S Ratio:13:1 Range: -50 to +500°C&F

K-type Range: -50 to +1370°C&F

Accuracy*: +/-2°C 38/705/0

(Additional charge applies)

High Range D:S Ratio:30:1

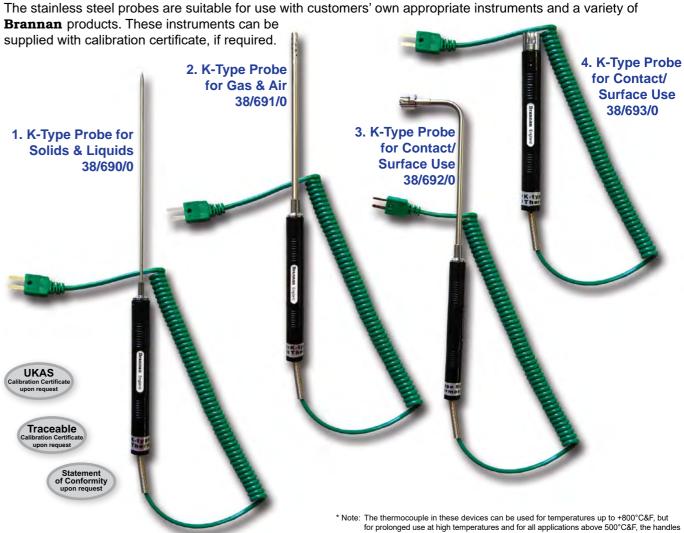
Range: -50 to +1050°C&F K-type Range: -50 to +1370°C&F

Accuracy*: +/-2°C 38/706/0

3 point Traceable Calibration available on request: 49/709/0

K-type Probes

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.



Description	Range	Handle Length	Probe Length	Overall Dimensions	Product Number
K-Type for Solids & Liquids	-50 to +800°C&F	130mm	200mm	330 x 16 x 16mm	38/690/0
2. K-Type for Gas & Air	-50 to +800°C&F	130mm	165mm	295 x 16 x 16mm	38/691/0
K-Type for Contact & Surface Use	-50 to +450°C&F	130mm	210mm	395 x 65 x 16mm	38/692/0
4. K-Type for Contact & Surface Use (no probe)	-50 to +450°C&F	115mm	-	145 x 15 x 15mm	38/693/0

should be protected against the effects of radiant hear

www.brannan.co.uk www.brannan.co.uk 45



Digital

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Digital

Data Loggers

Data Loggers (Brannan)

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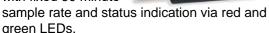
These easy to use data loggers connect directly into the USB port of a PC and are suitable for a variety of applications. The free Windows software for set-up and data download is both streamlined and easy to use and is compatible with Windows 10, 8, 7, 2000, XP. After data has been collected, it can 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. Loggers are available for temperature or temperature and humidity, with or without LCD and also for use with thermocouple. All data loggers 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.

Temperature Data Loggers

1. USB-Lite

Low cost data logger with fixed 30 minute



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



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





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

previous page 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

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



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 previous page 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



6. 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

Temperature and Humidity Data Loggers

7. Temperature & Humidity **Data Logger**

Relative humidity, temperature

and dew point data logger. Available in standard or increased accuracy.

Dimensions: 103 x 27 x 26mm Max Readings Stored: 16.382 Temp Range: -35 to +80°C&F Humidity Range: 0 to 100%RH

Standard Accuracy*: +/-0.5°C&F / 3%RH - 38/755/0 Increased Accuracy*: +/-0.3°C&F / 2%RH - 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

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

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

Data Logger UKAS Calibraiton

1, 3 or 5 point UKAS Calibration of Brannan data loggers is available, if required, either at time of order or for customers previously purchased data loggers, using product codes as shown on table. Please contact our Sales Team for further details. (Additional charge applies)

Data Logger UKAS Calibration	Number of Calibration Points	Product Number
Temperature	1 point	49/610/0
	3 point	49/611/0
	5 point	49/612/0
Temperature & Humidity	1 point	49/620/0
	3 point	49/621/0
	5 point	49/622/0

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





UKAS

Calibration

Brannan Digital Timers

Digital Timers Brannan

Single Count Timers

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Digital

Wide range of timers which can be used in a variety of applications. The following timers are all single count timers. Double and triple count timers can be seen overleaf.

All models are supplied with batteries and operating instructions. All electronic instruments are CE, WEEE and RoHS compliant. 3 point UKAS calibration is available on timers. Please contact our Sales Team for further detials.





2. Mini Timer

28/205/0

clip and magnetic fixings.

Dimensions: 55 x 55 x 25mm

LCD Dimensions: 12 x 27mm

99 min, 59 sec count down timer with

memory function. Complete with stand,





1. 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. 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





4. 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



Visual, audible & vibrating alarms

5. Multi Alarm Timer & Clock

99 min, 59 sec count down and up timer with 12 hr clock, alarm and memory function. Function includes audible, visual and vibration alarm. Suitable for standing on desk and fitted with pocket clip and magnetic fixings.

Dimensions: 75 x 53 x 35mm LCD Dimensions: 15 x 35mm

28/219/0

Timer Description	Count	Count Up & Down	Fixings	LCD Dimensions	Product Dimensions	Product Number
1. Large Timer	99 min, 59 sec	1	Magnet	38 x 64mm	70 x 80 x 20mm	28/203/0
2. Mini Timer	99 Min, 59 Sec	Down only	Magnet & clip	12 x 27mm	55 x 55 x 25mm	28/205/0
3. Timer & Clock	99 min, 59 sec	1	Hook & magnet	20 x 48mm	66 x 76 x 20mm	28/210/0
4. Slimline Timer	99 min, 59 sec	1	Magnet	12 x 34mm	88 x 48 x 18mm	28/213/0
5. Multi Alarm Timer	99 min, 59 sec	✓	Stand, clip & magnet	15 x 35mm	75 x 53 x 35mm	28/219/0

Multi Count Timers

Wide range of multi count timers which can be used in a variety of applications. The following timers have double, triple or four-way counters. All models are supplied with batteries and operating instructions. All electronic instruments are CE, WEEE and RoHS compliant.



1. Dual Timer & Clock

23 hour, 59 minute, 59 second countdown and up dual timer with memory function and 12/24 hour clock. With clip and magnetic fixings. Dimensions: 53 x 68 x 14mm

LCD Dimensions: 24 x 35mm 28/206/0



2. Dual Timer & Clock

Two 24 hour countdown timers. 12/24 hour clock. Magnetic back clip and stand. Dimensions: 50 x 60 x 12mm LCD Dimensions: 12 x 32mm 28/211/0



4. Triple Timer & Clock

Three x 20 hour countdown timers with clock and memory function. Count up timer in 1/100 seconds. 12/24 hour clock.

Stand and magnetic fixings. Dimensions: 86 x 56 x 22mm LCD Dimensions: 45 x 40mm 28/207/0



Three x 20 hour countdown and up timer and 12/24 hour clock. Stand and magnetic fixing.

28/208/0

Dimensions: 88 x 66 x 13mm LCD Dimensions: 44 x 40mm 28/214/0



6. Four Way Timer & Clock

Four timers in one compact unit. 24 hour countdown and up. 12/24 hour clock. Counter automatically continues to count up when countdown time reached. Magnetic back clip and stand. Dimensions: 62 x 75 x 15mm LCD Dimensions: 22 x 50mm 28/212/0



3. Jumbo Dual Timer & Clock

Two x 24 hour clock and timer. Countdown and 20 hour count up timer with memory function. Bottom folds out to enable timer to stand unsupported. Also fitted with bracket for wall mounting. Dimensions: 140 x 95 x 20mm LCD Dimensions: 75 x 63mm







Timer Description	Count	Count Up & Down	Fixings	LCD Dimensions	Product Dimensions	Product Number
1. Dual Timer & Clock	23 hr, 59 min, 59 sec	1	Magnet & clip	24 x 35mm	53 x 68 x 14mm	28/206/0
2. Dual Timer & Clock	9 hr, 59 min, 59 sec	1	Magnetic back clip	12 x 32mm	50 x 60 x 12mm	28/211/0
3. Jumbo Dual Timer & Clock	23 hr, 59 min, 59 sec	✓	Wall mountable	75 x 63mm	140 x 95 x 20mm	28/208/0
4. Triple Timer & Clock	23 hr, 59 min, 59 sec	✓	Magnet	45 x 40mm	86 x 56 x 22mm	28/207/0
5. Triple Timer & Clock	23 hr, 59 min, 59 sec	1	Magnet	44 x 40mm	88 x 66 x 13mm	28/214/0
6. Four Way Timer & Clock	23 hr, 59 min, 59 sec	/	Magnetic back clip	22 x 50mm	62 x 75 x 15mm	28/212/0

Digital Timers, Stopwatches & Tally Counters

Bench Top Timers

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

(spare contacts 28/410/4)

Without External Triggering Contacts 28/411/0



Stopwatches

Choice of stopwatches, standard or water resistant. Both models are supplied with batteries and operating instructions. All electronic instruments are CE, WEEE and RoHS compliant and can be supplied with statement of conformity upon request.



1. Stopwatch

1/100 second stopwatch with split counter, calendar, time and alarm. Complete with lanyard.

Max Count: 23hours

59 minutes 59 seconds

Dimensions: 80 x 55 x 17mm LCD Dimensions: 12 x 27mm

28/404/0



2. Water Resistant Stopwatch

1/100 second waterproof stopwatch to IP65 with large LCD, split counter, calendar, time and alarm. Complete

> with adjustable hanging cord for use as wrist strap.

Max Count: 23hours 59 minutes

59 seconds

Dimensions: 65 x 80 x 18mm LCD Dimensions: 17 x 35mm 28/405/0

Description	Max Count	LCD Dimensions	Product Dimensions	Product Number
1. Stopwatch	23 hr, 59 min, 59 sec	12 x 27mm	80 x 55 x 17mm	28/404/0
2. Water Resistant Stopwatch	23 hr, 59 min, 59 sec	17 x 35mm	65 x 80 x 18mm	28/405/0



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

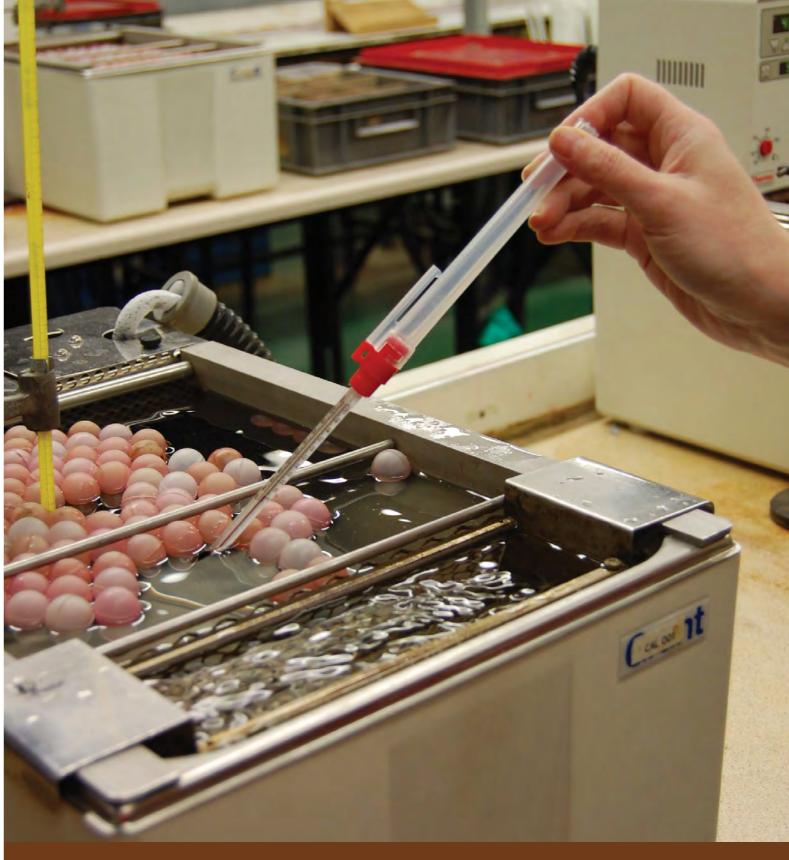


3. Hand Held Digital Tally Counter

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/	Reset	Reading	Product	Product
		Digital		Dimensions	Dimensions	Number
Hand Held Tally Counter	0 to 9999	Analogue	Knob turn	6 x 18mm	48 x 54 x 37mm	28/501/0
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



pecial Application Instrumentation

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. Please also see our range of digital Max/Min thermometers in the Traceable digital section of this catalogue.



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

10-10-

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)

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)

Max/Min Description	Range	Product Dimensions	Product Number
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	12/404/3
	-35 to +50°C only	200 x 67 x 23mm	12/404/2
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

12/404/3 (°C&F) 12/404/2 (°C only)



Factory Act Thermometers

-120

100

-80

-60

50-

40-

30-

10-

0-

Brannan Made in England

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

Description	Range	Product	Product
		Dimensions	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 indicate the correct temperature at which your fridge and freezer should be maintained, to assist with the safe, cold storage of food or medicines, etc.



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. External probe suitable for UKAS calibration.

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

22/420/3



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

Heavy Duty Fridge or Freezer Thermometers

Clear front horizontal thermometer with blue printed scale on white moulding and clear zones indicating recommended temperature for fridge and freezer. Magnet fixture on back of moulding or stainless steel clips for fixture to appliance.

Range: -30 to +30°C&F

Dimensions: Magnet: 30 x 120 x 13mm Clips: 30 x 120 x 19mm

Magnet Fixture - 22/430/3 Stainless Steel Clips Fixture - 22/450/3



pplication Instrumentation

4

Special

Brannan Glass Pocket Test Thermometers

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*TM 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.





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- <i>tox</i> ™	Red Spirit
		Product Number	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

Aluminium Case with Slot Front

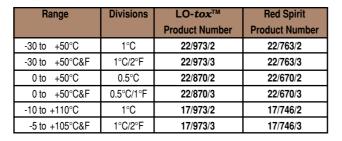
This pocket test thermometer is held inside an aluminium case for protection during use.

Ranges: See table

Dimensions: 158 x 11mm diameter



		-	9 60 60
Range	Divisions	LO-tox [™] Red Spirit	
		Product Number	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



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- <i>tox</i> ™	Red Spirit
		Product Number	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

Special Application Test Thermometers Brannan

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 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





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

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.

These 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. Spare bottles available on request.

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
Spare Bottle	-	22/110/0





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 thermometer tube in encapsulated by the **Brannan** *breaksafe*™ pvc tubing. The index is reset with the magnet supplied.

Range: -30 to +30°C only

Dimensions: 200 x 40mm 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



UKAS

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Brannan Hygrometers

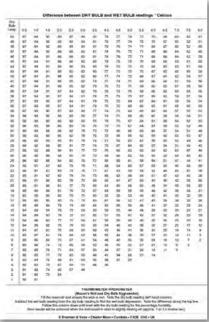
These instruments measure the amount of water vapour in the atmosphere, on a percentage scale known as Relative Humidity (%RH). The difference between the "wet" and "dry" bulb temperatures enables the %RH to be determined through the use of tables or a calculator.



Mason's Hygrometer

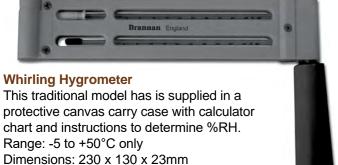
White polypropylene case with water container and wick. Supplied complete with calculator chart and instructions to determine %RH. Replacement water container pots and wick also available.

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 13/086/0
Replacement Pot 13/087/0



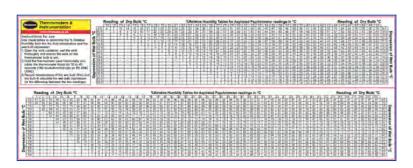
Whirling Hygrometers

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 filled with a spirit filling. Replacement refill tubes are available for both models. These instruments can be supplied with Calibration Certification on request.



13/745/2

Pair replacement tubes: 13/645/2
Pack of 12 Replacement Wicks: 13/086/0





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)





Hydrometers

Specific Gravity Hydrometers Twaddle and Baumé BS 718 and ASTM Hydrometers Density Hydrometers
Alcohol Hydrometers
Hydrometer Accessories



1.000 BOTT

Hydrometers - Introduction

The traditional hydrometry scale of Specific Gravity (density, relative to that of water at 60°F) used in the 1960 edition of the British Standard 718 is still much in demand and the General Purpose hydrometers at the beginning of this catalogue section use this scale.

For the Specification Density Hydrometers to BS 718: 1991, the internationally accepted basis of scale is grams per millilitre (g/ml) with a reference temperature of 20°C



(or, exceptionally 15°C). For use in tropical countries, ISO 387 proposes that hydrometers be adjusted at a higher reference temperature, 27°C (as opposed to the previously used high adjustment of 84°F).

Instruments adjusted at this higher temperature can be supplied to special order. In addition to being adjusted for use at a specific reference temperature, hydrometers are adjusted with regard to the Surface Tension of the materials whose density is to be determined. Surface tension may be expressed specifically for example 55 mN/m (millinewtons per metre) or described as a band. Low surface tension is less than 35 mN/m and medium surface tension is between 35 and 55 mN/m.



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

* UKAS Calibration carried out at external laboratory.

Statement	of Conformity	Brannan www.brannan.co.uk
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your choice" Institured are traceable to the cert Traceable certificates pr an instrument, similarly is expected uncortainties a to the Expression of Uni- nationant is to be used system uncertainty. Our on-site calibration in the LLAC (international calibration and inspectio COPRAC, DAKIS, IAS, Guarantee of Accur		is an shored in our records and alteration. associate correction values for front, put also give values for front, put also give values for fine according to the UKAS Guide 33. These are sessified if the in order to calculate the overall solice 17025 2005 and through MARA guarantees that the value for those accredited by howevitable organization programs of the programs of the put and th
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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	To suit		Product Numb	or
°SG	Surface Tension	Series S50	Series M50	Series L50
0.60 to 0.65°SG		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	1	10/902/0	10/963/0	10/873/0
0.80 to 0.85°SG	Low	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		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	Medium	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



Hydrometers



Twaddle and Baumé Hydrometers (Brannan)

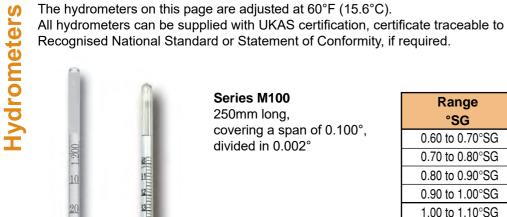
Traceable

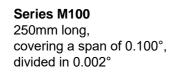
UKAS

Hydrometers

Twaddle Hydrometers

Traceable





Brannan General Purpose Specific Gravity Hydrometers

Range °SG	To suit Surface Tension	Product Number
0.60 to 0.70°SG		10/940/0
0.70 to 0.80°SG	1	10/941/0
0.80 to 0.90°SG	Low	10/942/0
0.90 to 1.00°SG		10/943/0
1.00 to 1.10°SG		10/944/0
1.10 to 1.20°SG		10/945/0
1.20 to 1.30°SG	Medium	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°

200mm long, cover	ing a spair or o.200 ,	divided iii 0.0
Range °SG	To suit Surface Tension	Product Number
0.60 to 0.80°SG	1.	10/500/0
0.80 to 1.00°SG	Low	10/501/0
1.00 to 1.20°SG		10/502/0
1.20 to 1.40°SG		10/503/0
1.40 to 1.60°SG	Medium	10/504/0
1.60 to 1.80°SG		10/505/0
1.80 to 2.00°SG		10/506/0



Twaddle **Product Number** Range **Division** Number L = 160mm L = 300mm 0 to 24 10/101/0 10/151/0 2 24 to 48 10/102/0 10/152/0 1 48 to 74 10/103/0 10/153/0 4 74 to 102 10/104/0 10/154/0 10/105/0 10/155/0 102 to 138

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.

138 to 170 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



Range °SG	To suit Surface Tension	Product Number
0.60 to 0.80°SG	Law	10/500/0
0.80 to 1.00°SG	Low	10/501/0
1.00 to 1.20°SG		10/502/0
1.20 to 1.40°SG	Medium	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

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Brannan Special Purpose Hydrometers

Special Purpose Hydrometers

Hydrometers

Milk Hydrometers



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 1.300°SG	0.005	10/722/0
Glass	1.080 to 1.300°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

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

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	L	ength mm	Division	Product Number
50 to 45	0	160mm	10.0	10/611/0
50 to 25	0	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
Į	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

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





BS 718: 1991 Density Hydrometers

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

10/812/0

10/813/0

10/814/0

10/815/0

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

Alcohol Hydrometer

These Alcohol Sikes Hydrometers, for measuring ethanol/water mixtures using an arbitary Sikes scale at 51°C. Overall length 255mm. Range Length **Product Division Sikes** Number mm 10/810/0 0 to 20 A 255mm 0.2 0.2 10/811/0 0 to 20 255mm

255mm

255mm

255mm

255mm

0.2 0.2

0.2

0.2

Alcohol Sikes Hydrometer

20 to 40

40 to 60

60 to 80

80 to 90

Range kg/m³	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 270mm long, divided in 0.001g/ml, range spans of 0.050g/ml Series M50 Series L50 330mm long, divided in 0.0005g/ml, range spans of 0.050g/ml

To suit Braduct Number					
Range	Surface	Pro	oduct Number		
g/ml	Tension	Series S50	Series M50	Series L50	
0.60 to 0.65g/ml		10/300/0	10/330/0	10/360/0	
0.65 to 0.70g/ml	1	10/301/0	10/331/0	10/361/0	
0.70 to 0.75g/ml	1	10/302/0	10/332/0	10/362/0	
0.75 to 0.80g/ml	1 .	10/303/0	10/333/0	10/363/0	
0.80 to 0.85g/ml	Low	10/304/0	10/334/0	10/364/0	
0.85 to 0.90g/ml	1	10/305/0	10/335/0	10/365/0	
0.90 to 0.95g/ml	1	10/306/0	10/336/0	10/366/0	
0.95 to 1.00g/ml	1	10/307/0	10/337/0	10/367/0	
1.00 to 1.05g/ml		10/308/0	10/338/0	10/368/0	
1.05 to 1.10g/ml	1	10/309/0	10/339/0	10/369/0	
1.10 to 1.15g/ml	1	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	Medium	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	1	10/320/0	10/350/0	10/380/0	
1.65 to 1.70g/ml	1	10/321/0	10/351/0	10/381/0	
1.70 to 1.75g/ml	1	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	1	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		10/400/0
0.70 to 0.80g/ml	Law	10/401/0
0.80 to 0.90g/ml	Low	10/402/0
0.90 to 1.00g/ml		10/403/0
1.00 to 1.10g/ml		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: 1991 Density Hydrometers

BS 718 Hydrometers for Petroleum

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.

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		10/450/0
0.65 to 0.70		10/451/0
0.70 to 0.75		10/452/0
0.75 to 0.80	Low	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

Range g/ml	To suit Surface Tension	Product Number
0.60 to 0.65		10/460/0
0.65 to 0.70		10/461/0
0.70 to 0.75		10/462/0
0.75 to 0.80	Low	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: 1960 Specific Gravity Hydrometers

Sub-series S60/60F M50 SP

BS 718: 1960 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.

Sub-series S60/60F L50 SP

BS 718: 1960 is generally aligned with

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		10/450/5
0.65 to 0.70		10/451/5
0.70 to 0.75		10/452/5
0.75 to 0.80	Low	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

0.60 to 0.65	Range S60/60F	To suit Surface Tension	Product Number
0.70 to 0.75	0.60 to 0.65		10/460/5
0.75 to 0.80 10/463/5	0.65 to 0.70	Low	10/461/5
	0.70 to 0.75		10/462/5
0.00 +0.005	0.75 to 0.80		10/463/5
	0.80 to 0.85		10/464/5
0.85 to 0.90 LOW 10/465/5	0.85 to 0.90		10/465/5
0.90 to 0.95 10/466/5	0.90 to 0.95		10/466/5
0.95 to 1.00 10/467/5	0.95 to 1.00		10/467/5
1.00 to 1.05 10/468/5	1.00 to 1.05		10/468/5
1.05 to 1.10 10/469/5	1.05 to 1.10		10/469/5

ASTM 100 Hydrometers

Traceable

The American Society for Testing and Materials (ASTM) Specification E 100 describes hydrometers

330mm Long Plain Hydrometers

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

using the API (American Petroleum Institute) scale and others in degrees Specific Gravity.

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

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	Range	Division	Product
Number	°SG	DIVISION	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 (Americal Petroleum Institute) scale and others in degrees Specific Gravity. 200mm long and adjusted at 68°F.

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

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

Hydrometers







Hydrometer CylindersThese three hydrometer jars are available with a standard internal diameter of 37mm.

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

Notes



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

















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