



# Thermometers and Instrumentation General Catalogue

Second Edition



# Brannan Thermometers & Instrumentation - Introduction

S. Brannan & Sons has manufactured and supplied thermometers, gauges and instrumentation since 1913. A century of tradition, combined with modern manufacturing methods at our facilities in the UK and Sweden ensure an unequalled service.



The Company has operated a quality management system since 1991 and currently operates within the scope of ISO 9001 : 2000.

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.



With increasing demand for an alternative to mercury, a wide choice of organic, non hazardous filling materials and electronic instruments are now 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 may also be viewed on our website:  
[www.brannan.co.uk](http://www.brannan.co.uk).

Please note:

- Products marked \* may have different upper and lower temperature extremes than stated due to manufacturing processes.
- All electronic instruments are supplied with batteries and full instructions.
- All dimensions are for unpacked products.





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**Brannan**



# **Digital & Electronic Range**

**Thermometers, Environmental Meters, Stopwatches, Timers**

# Electronic Test Thermometers

These electronic thermometers all have stainless steel probes and pocket cases and are suitable for a variety of applications. Batteries are supplied with all thermometers.



## Long Electronic Test with Alarm

Water resistant thermometer with 200mm stainless steel probe. Supplied with protective pocket case and clip.  
Range: -10 to 110°C&F  
Dimensions: 290 x 55 x 15mm  
LCD Dimensions: 14 x 17mm



31/156/0 (C&F)

## Catering Test

Max/min memory thermometer with 125mm stainless steel probe. Supplied with protective cover and hanging hook.  
Range: -10 to 200°C&F  
Dimensions: 280 x 40 x 38mm  
LCD Dimensions: 12 x 30mm



31/157/0 (C&F)

## Waterproof Electronic Test

Waterproof thermometer with max/min memory function and 120mm stainless steel probe. Supplied complete with pocket case and clip.  
Range: -50 to 150°C&F  
Dimensions: 200 x 20 x 15mm  
LCD Dimensions: 7 x 17mm



31/162/0 (C&F)

## Horizontal T Barrel Test

Test thermometer with horizontal display. 120mm stainless steel probe and supplied with pocket case and clip.  
Range: -50 to 150°C&F  
Dimensions: 152 x 58 x 20mm  
LCD Dimensions: 7 x 17mm



31/161/0 (C&F)

## Vertical Barrel Test

Test thermometer with vertical display. 120mm stainless steel probe and supplied with pocket case and clip.  
Range: -50 to 150°C&F  
Dimensions: 195 x 21 x 21mm  
LCD Dimensions: 7 x 17mm



31/160/0 (C&F)

## Short Electronic Test

Water resistant thermometer with max/min memory and 110mm stainless steel probe. Supplied with protective pocket case and clip.  
Range: -10 to 200°C&F  
Dimensions: 175 x 48 x 15mm  
LCD Dimensions: 9 x 16mm



31/155/0 (C&F)

A selection of electronic instruments to cover a wide range of applications. All come complete with batteries and full operating instructions.

### Swivel Head Electronic Pocket Test

Clear display with 0.1° resolution. Head adjustable through 180° rotation and spiked stainless steel stem available in two lengths. The pocket case and clip may act as a handle for the instrument during use. Hold facility to record temperature.

Range: -45 to 200°C.

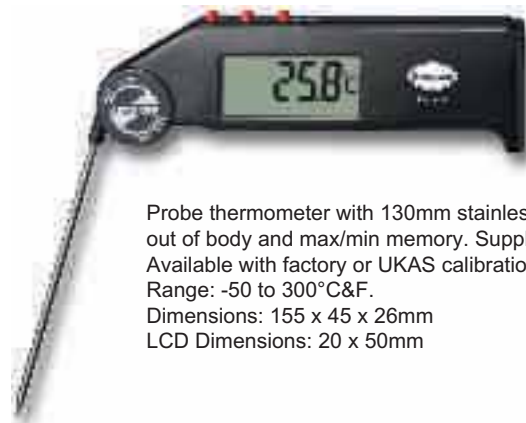
Dimensions: 145 or 255 x 34 x 30mm

LCD Dimensions: 10 x 20mm



125mm Stem - 31/147/0  
200mm Stem - 31/148/0

### Folding Probe



Probe thermometer with 130mm stainless steel probe which folds in and out of body and max/min memory. Supplied complete with wrist strap. Available with factory or UKAS calibration certificates.

Range: -50 to 300°C&F.

Dimensions: 155 x 45 x 26mm

LCD Dimensions: 20 x 50mm

With 2 point Factory Certificate:  
With 2 point UKAS Certificate:

31/170/0 (C&F)  
31/171/0  
31/172/0

### Electronic Fridge or Freezer



Electronic thermometer which displays fridge or freezer and room temperature. Alarm feature and 1m cable with suction pad.

Range: -50 to +70°C&F (switchable).

Dimensions: 135 x 25 x 20mm

LCD Dimensions: 58 x 12mm

22/400/3 (C&F)

### Hand Held Electronic Test

Robust 120 x 3.7mm spike stainless steel stem connected by a 1.5m lead. Temperature hold and maximum and minimum recording functions. Complete with hanger, stand and magnetic fixtures.

Range: -50 to +200°C&F

Dimensions: 97 x 65 x 20mm

LCD Dimensions: 16 x 36mm



38/650/0 (C&F)

### Wide Range Electronic Test with Alarm & Timer

Hand held test thermometer with alarm function and twin displays. 1m cable and 125mm stainless steel probe. Data hold and maximum and minimum functions. Complete with hanger, stand and magnetic fixtures.

Range: -50 to +300°C&F

Dimensions: 97 x 65 x 20mm

LCD Dimensions: 16 x 36mm



38/660/0 (C&F)

### Indoor Outdoor with Clock

Dual scale (switchable) indoor/outdoor thermometer with clock. Hanging, standing or magnetic fixtures, with 95cm cable.

Range: -50 to 70°C&F.

Dimensions: 82 x 74 x 21mm

LCD Dimensions: 21 x 48mm



14/437/3 (C&F)

# Electronic Max Min Thermometers

In addition to the traditional liquid in glass max min thermometers, below is our range of electronic max min thermometers.



## Electronic Max Min Indoor Outdoor

White moulded case with two displays for outdoor and indoor temperature, each display has a maximum and minimum recording facility and the display can be either °C or °F. Complete with 2.5m long cable for the outdoor probe and stand.  
 Range: Indoor: 0 to 50°C&F  
 Outdoor: -50 to 70°C&F  
 Dimensions: 98 x 74 x 17mm  
 LCD Dimensions: 35 x 52mm



12/412/3 (C&F)

## Outdoor Electronic Max Min

Electronic max min thermometer in a grey and white case with two large splashproof displays for outdoor or indoor use.  
 Range: -40 to 70°C&F.  
 Dimensions : 115 x 75 x 43mm  
 LCD Dimensions: 38 x 46mm



12/424/3 (C&F)

## Large Electronic Max Min

Max min thermometer in a grey case with two large displays for outdoor or indoor use.  
 Range: Outdoor: -50 to 60°C&F  
 Indoor: -10 to 50°C&F  
 Dimensions: 145 x 90 x 20mm  
 LCD Dimensions: 628 x 65mm



12/430/3 (C&F)

## Jumbo Electronic Max Min

White and blue case with two large displays for indoor temperature and humidity or outdoor temperature.  
 Complete with 2m long cable for the outdoor probe.  
 Temperature Range: Indoor: -10 to 50°C&F  
 Outdoor: -50 to 70 °C&F  
 Humidity Range: 20 to 99%RH  
 Dimensions : 109 x 98 x 20mm  
 LCD Dimensions: 65 x 78mm



12/421/3 (C&F)

## Electronic Indoor Outdoor Thermometer & Hygrometer

Silvered front with black trim. Large display with simultaneous reading of temperature and humidity.  
 Temperature readings can be switched indoor or outdoor and from °C to °F.  
 Press button activates maximum and minimum readings and alarm function on both temperature and humidity.  
 Stands or hangs on wall.  
 Complete with 2.8 metres of cable for outdoor probe.  
 Range: Indoor: 0 to 50°C&F  
 Outdoor: -50 to 70°C&F  
 Dimensions: 98 x 74 x 17mm  
 LCD Dimensions: 35 x 52mm



13/420/3 (C&F)



The following is a range of thermometers which detect infrared light waves from objects when non-contact temperature measurement is required.

### Mini Infrared

A hand held mini infrared thermometer with timekeeping function. Providing easy and safe temperature measurement where non-contact access is required.  
 Range: -33 to 220°C&F (switchable)  
 Dimensions: 71 x 47 x 17mm  
 LCD Dimensions: 22 x 13mm



38/700/0 (C&F)

### Pocket Infrared

A quick and easy infrared thermometer providing safe temperature measurement where non-contact access is required. Supplied complete with wrist strap, clip-out stamp and storage pouch.  
 Range: -35 to 230°C&F  
 Dimensions: 75 x 40 x 20mm  
 LCD Dimensions: 13 x 25mm



38/720/0 (C&F)

### Gun Type Infrared - Standard Range

A hand held infrared thermometer with backlit display. Provides easy and safe temperature measurement where non-contact access is required. Comes complete with full instructions and case.  
 Range: -50 to 280°C&F  
 Dimensions: 160 x 82 x 41.5mm  
 LCD Dimensions: 19 x 26mm



38/710/0 (C&F)

### Pocket Infrared with Laser Pointer

Larger pocket thermometer with wrist strap. The built-in laser pointer identifies target area to assist with accuracy of reading.  
 Range: -30 to 270°C&F  
 Dimensions: 97 x 57 x 29mm  
 LCD Dimensions: 26 x 26mm



38/721/0 (C&F)

### Professional High Range Gun Type Infrared and K-Type Thermometer

Infrared and K-type\* thermometer providing high specification measurements. Max min, DIF AVG recording facility.  
 Comes complete with full instructions and case.  
 IR Range: -50 to 1050°C&F  
 K-Type Range: -50 to 1370°C&F  
 Dimensions: 230 x 100 x 56mm  
 LCD Dimensions: 25 x 29mm



\* For information on K-type probes suitable for use with this instrument, please see page 13.

### Gun Type High Range Infrared with Max Min

A high range hand held infrared thermometer with max min feature for non-contact temperature measurement. Supplied complete with case and full instructions.  
 Range: -50 to 550°C&F  
 Dimensions: 160 x 82 x 41.5mm  
 LCD Dimensions: 19 x 26mm



38/711/0 (C&F)



38/712/0 (C&F)

The following two instruments are compact multimeters to measure electrical inputs with double moulded plastic housing and over sized high contrast 2000 or 6000 counts LCD display. They are both CAT III rated up to 600V. We detail below full specifications for each of these multi-functional instruments. Both instruments are supplied with full operating instructions, carry case and batteries.

### 2000 Count Multimeter



#### Specifications:

Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	10A	±2.5%
Resistance	2MΩ	±0.8%

Dimensions: 150 x 70 x 48mm  
LCD Dimensions: 32 x 48mm

#### Features:

2000 counts LCD display with function indication  
Safety design  
Diode/Continuity test  
Battery checking function

Complies with EN61010-1  
Overvoltage category: CATIII 600V



38/801/0

### True RMS Autoranging 6000 Count Multimeter

#### Specifications:

Function	Max Range	Basic Accuracy
Voltage DC	1000V	±0.5%
Voltage AC	1000V	±0.8%
Current DC	10A	±1.2%
Resistance	60MΩ	±0.8%

Dimensions: 150 x 70 x 48mm  
LCD Dimensions: 32 x 48mm

#### Features:

6000 counts LCD display with function indication  
True RMS measurements \*  
Analog bargraph: 61 segments  
Thermometer with K-type\* thermocouple  
Safety design  
Max Min and data hold functions  
Backlit LCD display  
Diode/Continuity test  
Capacitance test

Complies with EN61010-1  
Overvoltage category: CATIII 600V, CATII 1000V

For information on K-type probes suitable for use with this instrument, please see page 13.

#### \* Note:

The term RMS stands for "Root-Mean-Square" which represents the method of calculation of the voltage or current value. Average responding multimeters are calibrated to read correctly only on sine waves and they will read inaccurately on non-sine wave or distorted signals. True RMS meters read accurately on either type of signal.



38/802/0

## Carbon Monoxide Meter

The Carbon Monoxide Meter detects the presence of carbon monoxide (CO) and measures concentrations between 1-1000 parts per million (PPM). The meter indicates the presence of CO by a reading on the LCD and a beeper tone which sounds much like the clicking of a Geiger counter. Above 200 PPM, the beeper sounds continuously with the concentration of CO. From 35 PPM to 200 PPM, the beeper sounds discontinuously with the concentration of CO.

Supplied complete with full operating instructions, carry case and batteries.



**Specifications:**

Operating Temperature: 0 to 50°C  
 Storage Temperature: -30 to 60°C  
 Measurement Range: 0 to 1000PPM  
 Measurement Resolution: 1PPM  
 Accuracy: ±5% or ±10PPM  
 Sensory Type: Stabilized electrochemical Gas-specific (CO)

Dimensions: 102 x 52 x 29mm  
 LCD Dimensions: 17 x 27mm

**Features:**

- Digital LCD display
- Auto/manual zero
- Memory for 10 complete data sets
- Record mode
- Red and blue LED light audible alarm
- High accuracy/quick response
- Pocket size and easy to use
- Fast sampling
- Max and data hold functions



38/910/0

## Combustible Gas Leak Detector

The Combustible Gas Leak Detector has a long, slim gooseneck probe to detect the presence of combustible gases in tight areas. It's adjustable alarm, easy one-hand operation and impact resistance storage case add up to value and convenience. The adjustable 'tic' rate helps eliminate background gas concentration in contaminated environments and accelerates when sensor tip approaches leak. Supplied complete with full operating instructions, carry case and batteries.

**Specifications:**

Pump Driven Field Calibrateable Range: 10ppm  
 Sensory Type: Solid state  
 Response Time: Less than 2 seconds (up to 40% LEL)  
 Alarm: Visible and audible at 10% LEL for Methane  
 Can be calibrated for other concentrations or gases

Dimensions: 221 x 72 x 46mm  
 Probe Length: 410mm



**Features:**

- 410mm Gooseneck detector
- Highly sensitive and reliable
- One-hand operation with alarm adjust control
- Use in contaminated environments
- Pinpoint small leaks



38/911/0

This range of electronic instruments measures various environmental influences. Additional models can be found in the Meteorology section of this catalogue.

## Compact Sound Meter

Easy to use electronic sound meter for monitoring sound levels such as traffic and workplace machinery. It has a background noise absorber mode to filter ambient sounds and incorporates a max min record and max hold function.

This instrument meets IEC 6451; Type 2 standard and comes complete with a carry case, battery and full instructions.

Ranges: 30 to 100 dB,

60 to 130 db,

Dimensions: 210 x 55 x 32mm

LCD Dimensions: 27.5 x 37.5mm



13/412/0

## Sound Meter

Easy to use electronic sound meter for monitoring sound levels such as traffic and workplace machinery.

It has a background noise absorber mode to filter ambient sounds and incorporates a max min record and max hold function.

This instrument meets IEC 651; ANSI S1.4 Type 2 standard and comes complete with a heavy duty carry case, battery and full instructions.

Ranges: 30 to 80 dB,

40 to 90 dB,

50 to 100 dB,

60 to 110 db,

70 to 120 dB,

80 to 130 dB

Dimensions: 256 x 80 x 38mm

LCD Dimensions: 42 x 62mm



13/404/0

## Anemometer & Thermometer

A wind speed meter with simultaneous display of air flow plus ambient temperature. High sensitivity and accuracy.

Range: 0.0 to 45.0 m/second  
(0.0 to 140 km/hour)

Temperature range: 0 to 60°C&F

Dimensions: 150 x 72 x 35mm

LCD Dimensions: 45 x 55mm



13/409/0

## Digital Wind Speed Meter

An easy to use hand held, electronic anemometer giving accurate wind speed measurement and ambient temperature. Wind speed units in m/s, ft/min, knots, km/hr, mph.

Range: 0 to 30 m/second

0 to 90 km/hour

-10 to +45° C&F

Dimensions: 105 x 40 x 15mm

LCD Dimensions: 23 x 32mm



13/430/0

## CFM/CMM Anemometer & Thermometer

A wind speed meter with simultaneous display of air flow or air velocity plus ambient temperature and max min feature. High sensitivity and accuracy.

Range: 0.4 to 30 m/second  
(1.4 to 108 km/hour)

Temperature range: -10 to 60°C&F

Dimensions: 150 x 72 x 35mm

LCD Dimensions: 45 x 55mm



13/411/0

## Light Meter

This meter is a precision instrument used to measure illuminance in the field. It meets CIE photopic spectral response and is fully corrected for angular incidence of light.

Supplied complete with carry case, instruction manual and battery.  
Light meter range: 400,000 lux.  
Dimensions: 170 x 80 x 40mm  
LCD Dimensions: 57 x 47mm



13/406/0

## Humidity Meter & Thermometer

This instrument measures relative humidity and air temperature. The large, easy-to-read backlit LCD includes primary and secondary displays.

Supplied complete with carry case, instruction manual and battery.

Also supplied with K-type beaded wire thermocouple suitable for use with temperatures up to 300°C.

Humidity range: 0.2 to 100%RH.  
Temperature range: -20 to 1000°C&F.  
Dimensions: 170 x 85 x 40mm



\* For information on K-type probes suitable for use with this instrument, please see page 13.

13/405/0

## Thermocouple Thermometer

A compact and portable digital thermometer designed to use an external K-type thermocouple as a temperature sensor.

Supplied complete with carry case, instruction manual and battery.

Also supplied with K-type beaded wire thermocouple suitable for use with temperatures up to 300°C.

Range: -50 to 1300°C&F&K  
Dimensions: 170 x 80 x 40mm  
LCD Dimensions: 57 x 47mm

\* For information on K-type probes suitable for use with this instrument, please see page 13.



38/680/0

## Humidity Meter with Dew Point & Thermometer

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

Supplied complete with carry case, instruction manual and battery.

Humidity range: 0 to 100%RH  
Temperature range: -30 to 100°C&F.  
Dimensions: 225 x 45 x 34mm  
LCD Dimensions: 25 x 27mm



13/407/0



## 4-in-1 Multi-Function Environment Meter



A 4 in 1 Multi-Function Environment Meter which has been designed to combine the functions of sound level meter, light meter, humidity meter and thermometer and is ideally suited to a variety of practical applications for professional and home use.

The sound level function can be used to measure noise in factories, schools, offices, airports, home, etc, checking acoustics of studios, auditoriums and hi-fi installations.

The light function is used to measure illuminance in the field. It is fully cosine corrected for the angular incidence of light. The light sensitive component used in the meter is a very stable, long life, silicon diode.

The humidity/temperature is taken by a semiconductor sensor and K-type thermocouple.

Supplied complete with carry case, instruction manual and battery.

- Humidity range: 25 to 95%RH.
- Temperature range: -20 to 750°C&F.
- Sound meter range: 35 to 130dB.
- Light meter range: 20,000 lux.
- Dimensions: 252 x 64 x 32.5mm
- LCD Dimensions: 50 x 30mm

\* For information on K-type probes suitable for use with this instrument, please see page 13.



13/408/0

## Waterproof RTD Thermometer

A high accuracy, waterproof RTD thermometer and PT100 probe for a wide range of demanding applications.

Supplied complete with full instructions and battery.

- Range: -100 to 300°C&F
- Accuracy: 0.1% of reading / +0.4°C
- Dimensions: 150 x 66 x 31mm
- LCD Dimensions: 40 x 40mm



38/670/0

## Data Logger

This data logger enables the user to monitor temperature and humidity values remotely and conveniently for long periods. Readings are saved in the internal memory and downloaded to a PC via a USB port.



- Windows 98/2000/SCP analysis software and device drivers provided.
- Large memory capacity for up to 32000 readings (16000 temperature readings, 16000 Humidity readings).
- Range: -40 to 70° C&F
- 0 to 100%RH
- Dimensions: 130 x 30 x 25mm



38/750/0



Our range of K-type probes can be used with the following Brannan instruments:

- 13/405/0 - Temperature/Humidity Meter (page 11)
- 13/408/0 - 4 in 1 Multi-Function Meter (page 12)
- 38/680/0 - Thermocouple Thermometer (page 11)
- 38/712/0 - Infrared Thermometer (page 7)
- 38/802/0 - Multimeter (page 8)

as well as customer's own appropriate units.



### K-Type Probe for Solids & Liquids

185mm stainless steel probe and 130mm handle for measuring the temperature of solids and liquids.  
Range: -50 to 800° C&F



38/690/0

### K-Type Probe for Gas & Air

165mm stainless steel probe and 130mm handle for measuring the temperature of gas and air.  
Range: -50 to 800° C&F



38/691/0

### K-Type Probe for Contact/Surface Use

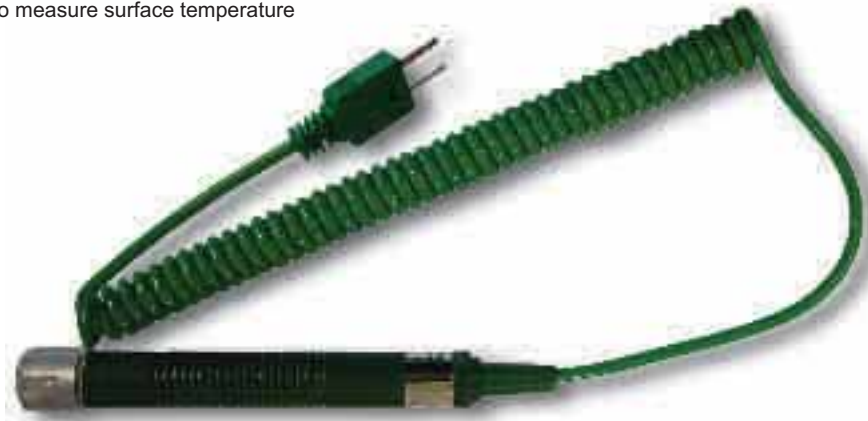
240mm stainless steel probe and 125mm handle for contact use to measure surface temperature.  
Range: -50 to 450° C&F



38/692/0

### K-Type Probe for Contact/Surface Use

K-type set into 120mm handle for contact use to measure surface temperature where there is insufficient room for a probe.  
Range: -50 to 450° C&F



38/693/0

## Wireless Weatherstation



Wireless temperature, humidity sensor and rainfall gauge transmitter with a range of up to 30m. Max/min memory of temperature and humidity. History of daily, weekly, monthly and seasonal rainfall. Features include weather forecast for the following six hours with weather icons by Barometric sensor, temperature alert, calendar and clock. Transparent LCD with dimmer button for adjustable brightness backlight.

Dimensions: 200 x 135 x 102mm (main unit)  
 137 x 145ø mm (raingauge)  
 100 x 70 x 15mm (transmitter)  
 LCD Dimensions: 80 x 125mm (main unit)  
 16 x 32mm (transmitter)

13/440/3 (C&F)

## Wireless Indoor Outdoor Thermometer & Hygrometer

Wireless unit with radio frequency for transmission and reception up to 30m. C/F selectable indoor/outdoor temperature at a glance with max/min temperature memory and hygrometer.

Dimensions: 121 x 72 x 24mm (main unit)  
 100 x 70 x 22 mm (raingauge)  
 LCD Dimensions: 35 x 40mm



12/425/3 (C&F)

## Wireless Rain Gauge

Digital, wireless raingauge with max/min rainfall and temperature memory. History of hourly, daily, weekly and monthly rainfall. Features include temperature alert, calendar and clock.  
 Dimensions: 178 x 84 x 24mm (main unit)  
 128 x 120ø mm (raingauge)  
 LCD Dimensions: 62 x 45mm



13/441/0 (C&F)



## Indoor Outdoor Thermometer & Hygrometer

Silvered front with black trim. Large display provides simultaneous reading of temperature and humidity. Temperature readings can be switched indoor or outdoor and from °C to °F. Press button activates maximum and minimum readings and alarm function on both temperature and humidity. Stands or hangs on wall.

Complete with 2.8 metres of cable for outdoor probe.  
 Range: Indoor: 0 to 50°C&F  
 Outdoor: -50 to 70°C&F  
 Dimensions: 98 x 74 x 17mm  
 LCD Dimensions: 35 x 52mm



13/420/3 (C&F)

## Electronic Max Min Indoor Outdoor Thermometer

White moulded case with two displays for outdoor and indoor temperature, each display has a maximum and minimum recording facility and the display can be either °C or °F. Complete with 2.5m long cable for the outdoor probe and stand.

Range: Indoor: 0 to 50°C&F  
 Outdoor: -50 to 70°C&F  
 Dimensions: 98 x 74 x 17mm  
 LCD Dimensions: 35 x 52mm



12/412/3 (C&F)



## Stopwatch

1/100 second stopwatch with lap counter, calendar, time and alarm. Comes complete with hanging cord.  
 Dimensions: 66 x 52 x 17mm  
 LCD Dimensions: 21 x 9mm



28/402/0

## Sport Timer & Stopwatch

1/100 second stopwatch with lap counter, calendar, time and alarm. Comes complete with hanging cord.  
 Dimensions: 75 x 59 x 16mm  
 LCD Dimensions: 27 x 12mm



28/400/0



## Waterproof Stopwatch

1/100 second waterproof stopwatch with lap counter, calendar, time and alarm. Comes complete with hanging cord.  
 Dimensions: 71 x 63 x 20mm  
 LCD Dimensions: 32 x 16mm



28/401/0

## Stopwatch with Compass & Thermometer

1/100 second stopwatch with lap counter, calendar, time and alarm on keyring fitting. Compass on rear of stopwatch. Thermometer range: -20/50°C.  
 Dimensions: 50 x 37 x 15mm  
 LCD Dimensions: 22 x 11mm



Front view



Back view

28/403/0

## Pulse Rate Pedometer with Timer

Pulse rate check and step counter. Displays target and actual calories burnt in a day. Sports timer up to 59'59"99. 1/100 second stopwatch. Real time clock (12/24 hour). Fitted with belt clip.  
 Dimensions: 64 x 49 x 27mm  
 LCD Dimensions: 22 x 15mm



28/300/0

## Tally Counter with Handle

Digital, stainless steel tally counter with handle. Counts from 0 to 9999 in clear white numbers on black background. Resets by turning knob.  
 Dimensions: 48 x 54 x 37mm



28/501/0

## Tally Counter with Stand

Digital, 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: 48 x 54 x 37mm



28/502/0

# Timers and Clocks

The Brannan range of timers and clocks can be used for various applications and come complete with batteries and full operating instructions.

Digital and Electronic Range  
Brannan Thermometers & Instrumentation

### Taxi & Fire Engine Timers

99 minute / 59 second countdown and count-up timers with fun vehicle design. With stand and magnetic fixings.  
Dimensions: 80 x 55 x 22mm  
LCD Dimensions: 58 x 20mm



Taxi 28/200/0  
Fire Engine 28/201/0

### Sexy Timer

99 minute / 59 second  
Switchable to 19 hour / 59 minute  
Countdown and count-up timer. Comes with stand, clip and magnetic fixing.  
Dimensions: 47 x 70 x 30mm  
LCD Dimensions: 30 x 18mm



28/202/0

### Large Timer

99 minute / 59 second count down only timer. Comes with stand, clip and magnetic fixing.  
Dimensions: 80 x 70 x 20mm  
LCD Dimensions: 64 x 38mm



28/203/0

### Timer & Clock with Numeric Setting

9 hour / 59 minute / 59 second timer and clock. Countdown and up with memory function.  
12 / 24 hour clock. Stand and magnetic fixing.  
Dimensions: 75 x 65 x 25mm  
LCD Dimensions: 60 x 20mm



28/204/0

### Mini Timer

99 minute / 59 second countdown timer with memory function. Comes with stand, clip and magnetic fixing.  
Dimensions: 55 x 55 x 25mm  
LCD Dimensions: 27 x 12mm



28/205/0

### Dual Timer & Clock

23 hour / 59 minute / 59 second timer and clock. Countdown and up with memory function. 12 / 24 hour clock. Stand, clip and magnetic fixing.  
Dimensions: 72 x 65 x 27mm  
LCD Dimensions: 42 x 20mm



28/206/0

### Triple Timer & Clock

3 x 20 hour countdown timer and clock with memory function. Count up timer in 1/100 second. 12 / 24 hour clock. Stand and magnetic fixing.  
Dimensions: 66 x 86 x 22mm  
LCD Dimensions: 45 x 40mm



28/207/0

### Jumbo Display Dual Timer & Clock

2 x 24 hour clock and timer. Countdown and 20 hour count-up with memory function. 12 / 24 hour clock. Bottom folds out to enable timer to stand and has bracket for wall mounting.  
Dimensions: 95 x 140 x 20mm  
LCD Dimensions: 75 x 63mm



28/208/0



## Bench Top Timers

The Brannan bench top timers are easy to use and are particularly suited for use in schools. They have colour coded buttons and a clear LCD display, housed in a robust ABS casing and are available with or without contacts for external triggering.

The timers are highly accurate, have count up with lap and split timing features.

Timing period: up to 9 hours, 59 minutes and 59 seconds.

Supplied complete with full operating instructions and batteries.

Dimensions: 100 x 90 x 70.5mm

LCD Dimensions: 63.7 x 19.7mm



With external triggering contacts - 28/410/0  
Without external triggering contacts - 28/411/0

## Countdown & Up Digital Timer & Clock

99 minute / 59 second timer and 12 / 24 hour clock. Countdown and up with memory function with hanger, stand and magnetic fixing.

Batteries included.

Dimensions: 76 x 66 x 20mm

LCD Dimensions: 48 x 20mm



28/210/0

## Personal Timer & Clock

9 hour / 59 minute / 59 seconds timer and clock. Countdown and up with memory function. 12 / 24 hour clock with hanging cord & magnetic back.

Dimensions: 113 x 22 x 19mm

LCD Dimensions: 31 x 13mm



28/209/0

## Four Way Timer & Clock

4 timers in one compact unit. 24 hour countdown and up timers and 12 / 24 hour clock. Large, easy to read display. Magnetic back clip and stand.

Batteries included.

Dimensions: 75 x 62 x 15mm

LCD Dimensions: 50 x 22mm



28/212/0

## Dual Timer & Clock

Two 24 hour countdown timers. 12 / 24 hour clock. Counts up in 1 second up to 24 hours. Magnetic back clip and stand. Batteries included.

Dimensions: 60 x 50 x 12mm

LCD Dimensions: 32 x 12mm



28/211/0

## Slimline Timer

99 minute / 59 second countdown timer.

Last setting countdown memory with magnetic fixing.

Dimensions: 45 x 87 x 11mm

LCD Dimensions: 26 x 12mm



28/213/0

## Triple Timer & Clock

3 x 20 hour countdown and up timer and 12 / 24 hour clock.

Stand and magnetic fixing.

Dimensions: 69 x 92 x 13mm

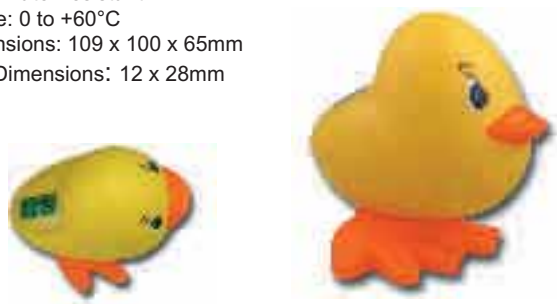
LCD Dimensions: 41 x 45mm



28/214/0

### Digital Water Thermometer

This thermometer offers a quick, fun way to check bath water to avoid the risk of scalding and has a beeper warning when the water temperature is too hot. Ideal for use with babies or small children. The thermometer has an accuracy of  $\pm 0.5^{\circ}\text{C}$  and is 100% water resistant.  
 Range: 0 to  $+60^{\circ}\text{C}$   
 Dimensions: 109 x 100 x 65mm  
 LCD Dimensions: 12 x 28mm



18/450/2 (C&F)

### Digital Window Thermometer

This window thermometer is an electronic instrument for measuring the outdoor temperature. The suction pad fixes to the outside of your window or any flat surface. The thermometer has an accuracy of  $\pm 1^{\circ}\text{C}$ . The display has large numbers for easy reading.  
 Range:  $-20$  to  $+60^{\circ}\text{C}$   
 Dimensions: 85 x 43 x 25mm  
 LCD Dimensions: 20 x 30mm



14/400/2 (C only)

### Infrared Body Temperature Thermometer



Non-contact and hygienic infrared thermometer specially designed to take the body temperature of a person regardless of room temperature. The thermometer has a fast response time allowing a greater number of measurements to be taken in a short time. Designed to eliminate the chance of cross-contamination, it is ideally suited for use in schools, businesses or other environments where a large number of people are coming into contact with one another.  
 Range:  $+32$  to  $+42.5^{\circ}\text{C}$ &F  
 Dimensions: 149 x 77 x 43mm  
 LCD Dimensions: 28 x 45mm



11/400/3 (C&F)

### Digital Fridge or Freezer

Electronic thermometer which displays fridge or freezer and room temperature. Alarm feature and 1m cable with suction pad.  
 Range:  $-50$  to  $+70^{\circ}\text{C}$ &F (switchable).  
 Dimensions: 135 x 25 x 20mm  
 LCD Dimensions: 58 x 12mm



22/400/3 (C&F)

### Oral Electronic Clinical

Easy to use electronic thermometer suitable for all ages especially babies, young children and the elderly. Battery included.  
 Range:  $+32$  to  $+42.9^{\circ}\text{C}$   
 Dimensions: 145 x 25 x 15mm  
 LCD Dimensions: 6 x 18mm



11/064/2 (C&F)

### Infrared Ear

Electronic thermometer with digital display and memory. Complete with carry case and replacement probe covers. Pack of 20 replacement probe covers also available.  
 Range:  $+32$  to  $+42.9^{\circ}\text{C}$ &F  
 Dimensions: 155 x 40 x 60mm  
 LCD Dimensions: 15 x 21mm



Replacement Probe Covers 11/420/3 (C&F) 11/421/0



### Infrared Forehead

A quick and easy infrared thermometer suitable for all ages, especially babies, young children and the elderly with three zone indicators for easy reading. Incorporates clock, stop watch, memory and fever alarm.  
 Range:  $+34$  to  $+42.2^{\circ}\text{C}$ &F  
 Dimensions: 160 x 39 x 45mm  
 LCD Dimensions: 17 x 24mm



11/440/3 (C&F)



A photograph of a garden with a thermometer in the soil. The thermometer has a red bulb and a silver stem with a scale. It is placed in a bed of dark soil next to a large green plant with broad, ribbed leaves. The background shows more of the same plants.

**Brannan**

# Garden, Kitchen & Homeware

Thermometers, Hygrometers, Rain Gauges, Clocks

A range of instruments for the amateur gardener and professional horticulturist. Applications include recording maximum and minimum temperature, measurement of soil and propagator temperature, and indication of humidity and rainfall levels.

Please note, products marked \* may have different upper and lower temperature extremes than stated due to manufacturing processes.

#### Dial Soil

50mm dial soil thermometer with black temperature scale showing recommended zones and spike probe.  
Range: 0 to +350°C  
Dimensions: 50mm diameter  
150mm stem



13/410/2 (C only)

#### Scoop Pool & Pond

230mm blue scoop pool and pond thermometer with blue temperature scale.  
Range: -10 to +50°C&F  
Dimensions: 245 x 46 x 30mm



18/410/3 (C&F)

#### Floating Pool

Thermometer to monitor the temperature of pond for carp or other fish. Blue float supports a white thermometer. Scale printed blue.  
Range: -5 to +60°C&F\*  
Dimensions: 240 x 45 x 35mm



18/416/3 (C&F)  
18/416/2 (C only)



#### Propagation

150mm green propagation thermometer with white temperature scale.  
Range: 0 to +50°C&F  
Dimensions: 155 x 32 x 10mm



13/418/3 (C&F)

#### Gardener's Test

150mm gardener's test thermometer with blue plastic case.  
Range: -30 to +50°C&F\*  
Dimensions: 160 x 12mm diameter



13/403/3 (C&F)

#### Glass Stem

These types of instruments are frequently required in the agricultural, horticultural and construction industries, to check temperatures of soil, compost, silage, concrete and road surfacing products. These are available in three lengths. Longer stems have more robust cases and all have a red knob at the top to assist with location.

Dimensions: red knob - 26mm diameter x stem length as box below



#### Dial Window

65mm dial window thermometer with red and blue temperature scale with self adhesive pad for securing to glass.  
Range: -20 to +50°C&F  
Dimensions: 85 x 65 X 10mm



14/419/3 (C&F)

Range	Application	Stem Length	Case	Product No
-35 to +50°C	Concrete/Soil	490mm	Brass	15/358/2
-10 to +60°C	Soil	320mm	Aluminium	15/554/2
-5 to +65°C&F	Soil	320mm	Aluminium	15/554/3
-10 to +110°C	Hotbed	320mm	Aluminium	15/354/2
-10 to +110°C&F	Hotbed	320mm	Aluminium	15/354/3
-10 to +60°C	Soil	230mm	Aluminium	13/417/2
-5 to +65°C&F	Soil	230mm	Aluminium	13/417/3

### Wireless Rain Gauge

Digital, wireless rain gauge with max/min rainfall and temperature memory. History of hourly, daily, weekly and monthly rainfall. Features include temperature alert, calendar and clock.  
 Dimensions: 178 x 84 x 24mm (main unit)  
 128 x 120mm diameter (raingauge)  
 LCD Dimensions: 62 x 45mm



13/441/0 (C&F)

### Moisture Meter & PH Meter

Moisture and PH reading meters with strong plastic cases and 200mm metal probes.  
 Dimensions: 290 x 55 x 34mm



Moisture Meter 13/401/0  
 PH Meter 13/402/0



### Direct Reading Rain Gauge

A simple rain gauge in translucent material calibrated in mms and inches. Supplied complete with rainfall chart.  
 Dimensions: 210 x 100mm diameter



13/414/3 (C&F)

### Rain Gauge

Heavy duty, UV stabilised polypropylene moulded funnel and body. The measuring jar acts as the collection vessel. Calibrated in mms and inches, complete with a rainfall chart.  
 Dimensions: 290 x 120mm diameter



13/070/0  
 Spare 100mm Jar 13/061/0  
 Spare Weather Register Book 13/062/0

### Solway Max Min

A modern design with red, blue and black coloured scale in moulded grey plastic. Separate magnet reset.  
 Range: -35 to +50°C&F\*  
 Dimensions: 250 x 60 x 27mm



12/401/3 (C&F)  
 12/401/2 (C only)

### Quick Set Max Min

This popular design features a press button for quick reset. Available in white plastic with blue printed temperature scale and reset button or cream plastic with black print and red reset button.  
 Range: -35 to +50°C&F\*  
 Dimensions: 205 x 55 x 27mm



Cream case 12/403/3 (C&F)  
 Cream case 12/403/2 (C only)  
 White case 12/408/3 (C&F)  
 White case 12/408/2 (C only)

### Heavy Duty Max Min

A robust design max min thermometer with fully protected bulbs, green moulding and black temperature scale. Press button reset.  
 Range: -35 to +50°C&F\*  
 Dimensions: 200 x 67 x 23mm



12/404/3 (C&F)  
 12/404/2 (C only)

Please see pages 31 - 34 for full range of max min thermometers

The following pages illustrate the Brannan range of wall thermometers, all having clear markings and colourful designs. Indoor and outdoor models available, ideal for use in the home or garden. Please note, products marked \* may have different upper and lower temperature extremes than stated due to manufacturing processes. Other designs and company branding available through our full design service. Please ask for details.

#### Long Two Piece Wall

Blue printed scale on white background with burgundy frame.  
Range: -10 to +50°C&F\*  
Dimensions: 205 x 40 x 8mm



14/441/3 (C&F)  
14/441/2 (C only)

#### Short Two Piece Wall

Blue printed scale on white background with matching blue frame.  
Range: -10 to +50°C&F\*  
Dimensions: 150 x 44 x 12mm



14/442/3 (C&F)  
14/442/2 (C only)

#### 240mm Plastic Wall

240mm plastic wall thermometer with blue temperature scale.  
Range: -10 to +50°C&F\*  
Dimensions: 240 x 65 x 8mm



14/440/3 (C&F)  
14/440/2 (C only)

#### Standard Plastic Wall

Plastic wall thermometer with black temperature scale. Also available with low range for use in colder situations.  
Standard Range: -10 to +50°C&F\*  
Low Range: -40 to +40°C&F\*  
Dimensions: 215 x 40 x 8mm



Standard Range: 14/435/3 (C&F)  
14/435/2 (C only)  
Low Range: 14/911/3 (C&F)  
14/911/2 (C only)

#### Long Wood Wall

Wooden wall thermometer with black temperature scale.  
Range: -20 to +50°C&F  
Dimensions: 205 x 45 x 10mm



14/432/3 (C&F)

#### Short Wood Wall

Wooden wall thermometer with blue temperature scale.  
Range: -10 to +50°C&F\*  
Dimensions: 145 x 35 x 7mm



14/431/3 (C&F)  
14/431/2 (C only)

#### Wood & Brass Walls

Choice of light wood or dark wood wall thermometer with brass temperature scale plate.  
Range: -10 to +50°C&F\*  
Dimensions: 180 x 38 x 9mm



Light Wood & Brass 14/402/3(C&F)  
Dark Wood & Brass 14/403/3 (C&F)

#### Budget Plastic Wall

Plastic wall thermometer with black temperature scale.  
Range: -10 to +50°C&F\*  
Dimensions: 145 x 35 x 7mm



14/436/3 (C&F)  
14/436/2 (C only)



### Coloured Scale Wall

White wall thermometer with red and blue temperature scale.  
 Range: -10 to +50°C&F\*  
 Dimensions: 150 x 35 x 7mm



14/438/3 (C&F)  
 14/438/2 (C only)

### Large Plastic Wall

Large wall thermometer with bold print. Suitable for indoor and outdoor use. Also available with low range for use in colder situations.  
 Standard Range: -10 to +50°C&F\*  
 Low Range: -50 to +50°C&F\*  
 Dimensions: 380 x 75 x 10mm



Standard Range: 14/433/3 (C&F)  
 14/433/2 (C only)  
 Low Range: 14/204/3 (C&F)  
 14/204/2 (C only)

### 380mm Printed Wall

380mm wall thermometer with orange print and flower design.  
 Range: -30 to +50°C&F  
 Dimensions: 380 x 75 x 10mm



14/480/3 (C&F)

### 215mm Printed Wall

Choice of three wall thermometers with individual designs and matching scale print. Also available as pack of six (two of each design).  
 Range: -10 to +50°C&F\*  
 Dimensions: 215 x 40 x 8mm



Wild Fruit Design 14/460/3 (C&F)  
 County Gate Design 14/461/3 (C&F)  
 Butterfly Design 14/462/3 (C&F)  
 Pack of six (two of each design) 14/463/3 (C&F)

### 240mm Nursery Wall

Babies and young children are particularly susceptible to fluctuations in temperature and it is therefore important to maintain a balanced environment for them. This choice of three wall thermometers with individual designs help carers to check and control bedroom and nursery temperatures.  
 Range: -10 to +50°C&F\*  
 Dimensions: 240 x 65 x 8mm



Humpty Dumpty Design 14/470/3 (C&F)  
 Giraffe & Bear Design 14/474/2 (C only)  
 Teddy Bear Design 14/472/2 (C only)  
 Pack of six (two of each design) 14/473/3

The Brannan range of dial thermometers, humidity meters and clocks are suitable for the home, workplace or school.

## Large Clock with Thermometer & Hygrometer

A large wall clock featuring additional temperature and humidity meters.

Clear display makes these instruments ideal with use in a variety of locations including schools, workplaces and the home. Temperature range is -30 to 55°C and humidity range is 0 to 100% RH.

Supplied complete with battery.

Temperature range: -20 to +50°C&F

Humidity Range: 0 to 100%RH

Dimensions: 330 x 280 x 40mm



28/600/0



## Wall Clock

A large wall clock, moulded in white plastic and with clear display.

Supplied with battery.

Dimensions: 270mm diameter



28/601/0

## Wall Thermometer & Humidity Meter

A large dial wall thermometer and humidity meter, moulded in white plastic and with clear display. Supplied with battery.

Temperature range: -20 to +50°C&F

Humidity Range: 0 to 100%RH

Dimensions: 270mm diameter



28/602/0

Wall Clock and Dial Wall Thermometer and Humidity Meter as pair

28/603/0

## Gilt Dial Thermometer & Hygrometer

100mm gilt dial with temperature and humidity scales printed in black.

Temperature range: -20 to +50°C&F

Humidity Range: 0 to 100%RH

Dimensions: 100mm diameter



30/407/3 (C&F)

## Gilt Dial Max Min & Hygrometer

Attractive dial max min with gilt bezel and black plastic case. Red and blue indicators with hygrometer.

Temperature range: -20 to +50°C&F

Humidity Range: 0 to 100%RH

Dimensions: 100mm diameter



12/413/3 (C&F)

## Large Patio Dials

300mm dial thermometers with choice of design: black temperature scale with red and blue design or black temperature scale with rainbow design.  
 Temperature range: -35 to +55°C&F - Blue & Red Dial  
 -20 to +50°C&F - Rainbow Dial  
 Dimensions: 300mm diameter



30/120/5 (C&F)



New

30/130/0 (C&F)

## Dial Window

65mm dial window thermometer with red and blue temperature scale with self adhesive pad for securing to glass.  
 Range: -20 to +50°C&F  
 Dimensions: 85 x 65 X 10mm



14/419/3 (C&F)

## Cricket Bear Fridge Magnet

65mm white dial fridge magnet thermometer with orange temperature scale and Cricket Bear design.  
 Temperature range: -10 to +50°C  
 Dimensions: 65mm diameter



30/420/2 (C only)

Fridge magnets are available with customers' designs.

Please see Personalised Products on pages 85 and 86 of this catalogue or contact our Sales Office for further details.

## Ice-Cream Sundae Fridge Magnet

65mm white dial fridge magnet thermometer with orange temperature scale and Ice-Cream Sundae design.  
 Temperature range: -10 to +50°C  
 Dimensions: 65mm diameter



30/421/2 (C only)

## Twin Dial

Twin 65mm slate blue dial with dark blue thermometer and humidity scale.  
 Temperature range: -10 to +50°C&F  
 Humidity Range: 0 to 100%RH  
 Dimensions: 130 x 65mm



30/412/3 (C&F)  
30/412/2 (C only)

## Dial Thermometer

65mm slate blue dial with dark blue temperature scale and red pointer.  
 Temperature range: -10 to +50°C&F  
 Dimensions: 65mm diameter



30/408/3 (C&F)  
30/408/2 (C only)

## Dial Humidity Meter

65mm slate blue dial with dark blue humidity scale and red pointer.  
 Humidity Range: 0 to 100%RH  
 Dimensions: 65mm diameter



30/411/0 (% humidity)

Food Hygiene is now an important area for public concern and is closely associated with temperature control. Brannan Thermometers provide a quick and economical way to ensure that the correct temperatures are achieved whilst cooking.

## Premium Dial Meat Roasting

50mm dial meat roasting thermometer with black temperature scale and 105mm probe.  
Range: +60 to +90°C  
Dimensions: 105 x 50mm diameter



23/472/2 (C only)

## Classic Dial Meat Roasting

50mm dial meat roasting thermometer with black animal symbols and red zones indicating correct temperature. 95mm probe.  
Range: 0 to +120°C  
Dimensions: 110 x 50mm diameter



23/401/2 (C only)

## Dial Frying

50mm dial frying thermometer with black temperature scale, pan clip and 135mm probe.  
Range: +50 to +200°C&F  
Dimensions: 153 x 50mm diameter



21/901/3 (C&F)

## Classic Stainless Steel Dial Oven

50mm stainless steel dial oven thermometer with black temperature scale. Suitable for hanging or sitting on oven shelf.  
Range: 0 to +230°C&F  
Dimensions: 75 x 60 x 30mm



23/400/3 (C&F)

## Premium Chrome Dial Oven

50mm chrome plated dial oven thermometer with black temperature scale. Suitable for hanging or sitting on oven shelf.  
Range: +50 to +300°C&F  
Dimensions: 80 x 60 x 35mm



23/467/3 (C&F)

## Stainless Steel Cooking

320mm stainless steel cooking thermometer with black temperature scale with recommended cooking temperatures.  
Range: +20 to +200°C  
Dimensions: 320 x 50 x 12mm



21/474/2 (C only)



## Microwave

150mm white microwave thermometer with red temperature scale.  
Range: +50 to +95°C\*  
Dimensions: 155 x 32 x 10mm



23/473/2 (C only)

## Horizontal Oven

140mm horizontal stainless steel oven thermometer with black temperature scale. Suitable for hanging or sitting on oven shelf.  
Range: 0 to +250°C  
Dimensions: 75 x 60 x 30mm



23/464/2 (C only)

## Brass Sugar & Jam

250mm brass sugar and jam thermometer with black temperature scale and recommended cooking temperatures.  
Range: +40 to +200°C  
Dimensions: 240 x 46 x 16mm



21/471/2 (C only)

## Cooks Test

150mm cook's test thermometer with black temperature scale and red plastic case  
Range: -5 to +105°C&F  
Dimensions: 160 X 10mm



21/475/3 (C&F)

## Yoghurt

150mm yoghurt thermometer with black print and clear plastic case.  
Zones at 43°C and 49°C  
Dimensions: 155 x 20mm



21/489/2 (C only)

## Electronic Timer & Clock

99 minute / 59 second timer and 12 / 24 hour clock. Countdown and up with memory function with hanger, stand and magnetic fixing.  
Dimensions: 76 x 13 x 20mm



28/210/0

## Short Electronic Test

Water resistant thermometer with max/min memory and 110mm stainless steel probe. Supplied with protective pocket case and clip.  
Range: -10 to 200°C&F  
Dimensions: 175 x 48 x 15mm



31/155/0 (C&F)

## Catering Test

Max/min memory thermometer with 125mm stainless steel probe. Supplied with protective cover and hanging hook.  
Range: -10 to 200°C&F  
Dimensions: 280 x 40 x 38mm



31/157/0 (C&F)

## Electronic Test with Alarm & Timer

Robust 120 x 3.7mm spike stainless steel stem connected by a 1.5m lead. Temperature hold and maximum and minimum recording functions. Complete with hanger, stand and magnetic fixtures.  
Range: -50 to +300°C&F  
Dimensions: 97 x 65 x 20mm  
LCD Dimensions: 16 x 36mm



38/660/0 (C&F)

## Milk & Coffee Test

These 45mm diameter dial thermometers incorporate green and red zones enabling fast and easy temperature reading of your milk or coffee. The dials are available in a choice of a 125mm or 175mm probe and are supplied with a stainless steel jug mounting probe clip.  
Range: -10 to 100°C&F  
Dimensions: 45mm diam x 125/175mm probe



125mm Probe  
175mm Probe

31/150/0 (C&F)  
31/151/0 (C&F)

Please see pages 3 - 18 for our full range of digital thermometers and timers, many of which are suitable for use during food preparation.

Our fridge and freezer thermometers will allow you to adjust your refrigerator and freezer for optimum performance and safety. Please note, products marked \* may have different upper and lower temperature extremes than stated due to manufacturing processes.

## Premium Stainless Steel Dial Fridge or Freezer

50mm stainless steel dial fridge or freezer thermometer with black temperature scale indicating recommended zones.

Range: -40 to +40°C

Dimensions: 72 x 62 x 40mm



22/402/2 (C only)

## Classic Dial Fridge or Freezer

65mm white dial fridge or freezer thermometer with blue and red temperature scale indicating recommended zones and penguin design.

Range: -30 to +30°C

Dimensions: 85 x 65 x 12mm



22/475/2 (C only)

## Chrome Plated Fridge or Freezer

50mm stainless steel dial fridge or freezer thermometer with black temperature scale indicating recommended zones.

Range: -40 to +40°C

Dimensions: 80 x 60 x 35mm



22/460/2 (C only)



## Vertical Fridge or Freezer

White vertical fridge or freezer thermometer with blue temperature scale indicating recommended zones.

Range: -30 to +40°C\*

Dimensions: 142 x 18 x 6mm



22/491/2 (C only)

## Horizontal Fridge or Freezer

130mm white horizontal fridge or freezer thermometer with blue temperature scale indicating recommended zones.

Range: -30 to +40°C\*

Dimensions: 130 x 40 x 22mm



22/483/2 (C only)

## Heavy Duty Fridge or Freezer

120mm chrome and clear front horizontal fridge or freezer thermometer with blue dual temperature scale on white moulding indicating recommended zones.

Range: -40 to +30°C&F\*

Dimensions: 30 x 120 x 12mm



22/450/3 (C&F)

## Digital Fridge or Freezer

Electronic thermometer which displays fridge or freezer and room temperature. Alarm feature and 1m cable with suction pad.  
 Range: -50 to +70°C&F (switchable).  
 Dimensions: 135 x 25 x 20mm  
 LCD Dimensions: 58 x 12mm

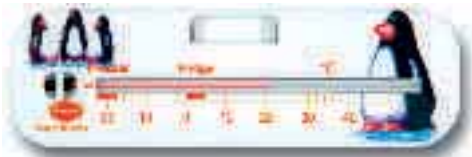


22/400/3 (C&F)



## Penguin Design Fridge or Freezer

130mm white horizontal fridge or freezer thermometer with orange temperature scale indicating recommended zones and penguin design.  
 Range: -30 to +40°C\*  
 Dimensions: 130 x 40 x 22mm



# 22/485/2 (C only)

## Maximum Recording Fridge Guard

130mm white horizontal fridge guard thermometer with blue temperature scale indicating recommended zones and marker to indicate maximum temperature reached.  
 Range: -30 to +30°C\*  
 Dimensions: 130 x 40 x 22mm



22/482/2 (C only)

## Polar Bear Design Fridge or Freezer

130mm white horizontal fridge or freezer thermometer with orange temperature scale indicating recommended zones and Polar Bear design.  
 Range: -30 to +40°C\*  
 Dimensions: 130 x 40 x 22mm



# 22/486/2 (C only)

## Twin Fridge & Freezer Hanging Thermometers

Two thermometers, one for your fridge and one for your freezer. Moulded in white plastic with hanging clip, these instruments will assist with the safe storage of food by indicating the correct temperature at which your fridge and freezer should be maintained.  
 Zones: -30 to -18°C (freezer)  
 +0.5 to +5°C (fridge)  
 Dimensions: 142 x 18 x 6mm x 2



22/440/2 (C only)

## Cold Room

For walk-in fridge/freezer and cold storage rooms. Moulded in white plastic with clear black print.  
 Range: -50 to +50°C&F\*  
 Dimensions : 240 x 65 x 8mm



22/375/3 (C&F)

## Sundae Design Fridge or Freezer

130mm white horizontal fridge or freezer thermometer with orange temperature scale indicating recommended zones and Sundae design.  
 Range: -30 to +40°C\*  
 Dimensions: 130 x 40 x 22mm



# 22/488/2 (C only)

# Available as pack of six (two of each design)  
 22/489/2 (C only)

Thermometers and hydrometers to assist with the storage, serving and domestic manufacture of beer and wine.

### Red or White Wine Wall

240mm wall thermometer with choice of red or white wine designs and co-ordinating scale print.

Range: -10 to +50°C&F

Dimensions: 240 x 65 x 8mm



14/451/3 (C&F)



14/450/3 (C&F)

### White Plastic Cellar

It is important that your cellar is kept at a constant temperature. This thermometer is suitable for storage of beers and wines, with clearly marked zone on scale to indicate recommended storage temperature.

Range: -5 to +50°C&F\*

Dimensions: 240 x 65 x 8mm



14/705/3 (C&F)

\* Please note, this product may have different upper and lower temperature extremes than stated due to manufacturing processes.

### 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.

Range: 0.98 to 1.12°SG

Dimensions: 230 x 19mm diameter



10/801/0

### Wine & Beer

200mm thermometer for wine and beer making.

Range: -5 to +105°C

Dimensions: 215 x 20mm diameter



21/594/3 (C&F)

### Wine Stopper

140mm wine stopper thermometer in clear plastic case.

Range: -5 to +18°C

Dimensions: 140 x 50mm diameter



21/480/2 (C only)



**Brannan**



# Maximum Minimum Thermometers

Glass Tube Thermometers, Dials, Electronic Instruments

# Maximum Minimum Thermometers

Increasing environmental and health concerns have encouraged the development of these unique **mercury free** maximum minimum thermometers which are replacing the traditional mercury types, the standard design for over two hundred years. These products use a patented blue coloured liquid to replace the mercury but retain the ease of operation of the mercury instruments. Please note, products marked \* may have different upper and lower temperature extremes than stated due to manufacturing processes.

## Euro Lidded

Traditional design with sloping roof. Available in white moulded plastic with blue temperature scale and magnet reset or green moulded plastic with green scale and press button reset.

Range: -35 to +50°C&F\*

Dimensions: 226 x 68 x 27mm



12/415/3 (C&F)  
12/415/2 (C only)



12/414/3 (C&F)  
12/414/2 (C only)

## Slimline

The Slimline max min design is available in white plastic with blue printed temperature scale and a magnet reset.

Range: -35 to +50°C&F\*

Dimensions: 205 x 55 x 27mm



12/407/3 (C&F)  
12/407/2 (C only)

## Quick Set

This popular design features a press button for quick reset. Available in white plastic with blue printed temperature scale and reset button or cream plastic with black print and red reset button.

Range: -35 to +50°C&F\*

Dimensions: 205 x 55 x 27mm



12/408/3 (C&F)  
12/408/2 (C only)



12/403/3 (C&F)  
12/403/2 (C only)

## Heavy Duty Push Button

A robust design with bulbs fully protected and reset by press button. Available in white plastic with blue printed temperature scale and reset button or green plastic with black print and red reset button.

Range: -35 to +50°C&F\*

Dimensions: 200 x 67 x 23mm



12/411/3 (C&F)  
12/411/2 (C only)



12/404/3 (C&F)  
12/404/2 (C only)

European Patent No: EP1157262 • American Patent No: 7011445B • Canadian Patent Pending No: 2365725



### Solway

A modern design with red, blue and black coloured scale in moulded grey plastic. Separate magnet reset.  
 Range: -35 to +50°C&F\*  
 Dimensions: 250 x 60 x 27mm



### Electronic Max Min Indoor Outdoor

White moulded case with two displays for outdoor and indoor temperature, each display has a maximum and minimum recording facility and the display can be either °C or °F. Complete with 2.5m long cable for the outdoor probe and stand.  
 Range: Indoor - 0 to 50°C&F  
 Outdoor - -50 to 70°C&F  
 Dimensions: 98 x 74 x 17mm  
 LCD Dimensions: 35 x 52mm



12/401/3 (C&F)  
 12/401/2 (C only)

12/412/3 (C&F)

### Gilt Dial Max Min & Hygrometer

Attractive dial max min with gilt bezel and black plastic case. Red and blue indicators with hygrometer.  
 Temperature range: -20 to +50°C&F  
 Humidity Range: 0 to 100%RH  
 Dimensions: 100mm diameter



### Outdoor Electronic Max Min

Digital Max Min thermometer in a grey and white case with two large splashproof displays for outdoor or indoor use.  
 Range: -40 to 70°C&F  
 Dimensions : 115 x 75 x 43mm  
 LCD Dimensions: 38 x 46mm



12/413/3 (C&F)

12/424/3 (C&F)

### Jumbo Electronic Max Min

White and blue case with two large displays for indoor temperature and humidity or outdoor temperature. Complete with 2m long cable for the outdoor probe.  
 Dimensions : 109 x 98 x 20mm  
 LCD Dimensions: 65 x 78mm



Temp Range: Indoor: -10 to 50°C&F  
 Outdoor: -50 to 70 °C&F  
 Humidity Range: 20 to 99%RH

12/421/3 (C&F)

### Large Electronic Max Min

Max Min thermometer in a grey case with two large displays for outdoor or indoor use.  
 Range: Outdoor -50 to 60°C&F  
 Indoor -10 to 50°C&F  
 Dimensions : 145 x 90 x 20mm  
 LCD Dimensions: 628 x 65mm



12/430/3 (C&F)

# Thermometers with Maximum Minimum Function

Maximum Minimum Thermometers

Brannan Thermometers & Instrumentation

The following electronic instruments offer a maximum minimum function in addition to their primary function.

### Hand Held Electronic Test

Robust 120 x 3.7mm spike stainless steel stem connected by a 1.5m lead. Temperature hold and maximum and minimum recording functions. Complete with hanger, stand and magnetic fixtures.  
Range: -50 to +200°C&F  
Dimensions: 97 x 65 x 20mm  
LCD Dimensions: 16 x 36mm



38/650/0 (C&F)

### Wide Range Electronic Test with Alarm & Timer

Hand held test thermometer with alarm function and twin displays. 1m cable and 125mm stainless steel probe. Data hold and maximum and minimum functions. Complete with hanger, stand and magnetic fixtures.  
Range: -50 to +300°C&F  
Dimensions: 97 x 65 x 20mm  
LCD Dimensions: 16 x 36mm



38/660/0 (C&F)

### Short Electronic Test

Water resistant thermometer with max/min memory and 110mm stainless steel probe. Supplied with protective pocket case and clip.  
Range: -10 to 200°C&F  
Dimensions: 175 x 48 x 15mm  
LCD Dimensions: 9 x 16mm



31/155/0 (C&F)

### Waterproof Electronic Test

Waterproof thermometer with max/min memory function and 120mm stainless steel probe. Supplied complete with pocket case and clip.  
Range: -50 to 150°C&F  
Dimensions: 200 x 20 x 15mm  
LCD Dimensions: 7 x 17mm



31/162/0 (C&F)

### High Range Infrared

A high range hand held infrared thermometer with max min feature. Comes complete with full instructions and case.  
Range: -50 to 550°C&F  
Dimensions: 160 x 82 x 41.5mm  
LCD Dimensions: 19 x 26mm



38/711/0 (C&F)

### Catering Test

Max/min memory thermometer with 125mm stainless steel probe. Supplied with protective cover and hanging hook.  
Range: -10 to 200°C&F  
Dimensions: 280 x 40 x 38mm  
LCD Dimensions: 12 x 30mm



31/157/0 (C&F)





# Medical & Healthcare Range

Personal and Professional Healthcare

An extensive range of instruments for professional or personal use. The following range of healthcare products give quick and clear readings. All electronic units come complete with full instructions and batteries.

## Oral Electronic Clinical

suitable for all ages especially babies, young children and the elderly. Battery included.

Range: +32 to +42°C  
Dimensions: 145 x 25 x 15mm  
LCD Dimensions: 6 x 18mm



11/064/2 (C only)  
PIP Code: 261-0954

## Infrared Forehead



A quick and easy infrared thermometer suitable for all ages, especially babies, young children and the elderly with three zone indicators for easy reading. Incorporates clock, stop watch, memory and fever alarm.  
Range: +34 to +42.2°C&F  
Dimensions: 160 x 39 x 45mm  
LCD Dimensions: 17 x 24mm

11/440/3 (C&F)  
PIP Code: 319-6656

## Infrared Ear

Electronic thermometer with digital display and memory. Complete with carry case and replacement probe covers. Pack of 20 replacement probe covers also available.  
Range: +32 to +42.9°C&F  
Dimensions: 155 x 40 x 60mm  
LCD Dimensions: 15 x 21mm



11/420/3 (C&F)  
PIP Code: 289-2305  
Replacement Probe Covers 11/421/0  
PIP Code: 329-4303

## Infrared Body Temperature Thermometer



Non-contact and hygienic infrared thermometer specially designed to take the body temperature of a person regardless of room temperature. The thermometer has a fast response time allowing a greater number of measurements to be taken in a short time. Designed to eliminate the chance of cross-contamination, it is ideally suited for use in schools, businesses or other environments where a large number of people are coming into contact with one another.  
Range: +32 to +42.5°C&F  
Dimensions: 149 x 77 x 43mm  
LCD Dimensions: 28 x 45mm

**New**

11/400/3 (C&F)  
PIP Code: 347-3733

## Solid Stem Clinical

Clinical thermometer suitable for use under the arm or orally. Comes complete with clear plastic case.  
Range: +35 to +42°C&F  
Dimensions: 110 x 5mm



11/455/3 (C&F)  
Not for sale in EU

## Easy Read Clinical

Enclosed scale clinical thermometer suitable for use under the arm or orally. Comes complete with clear plastic case.  
Range: +35 to +42°C&F  
Dimensions: 125 x 13mm



11/456/3 (C&F)  
Not for sale in EU

## Forehead Strip

Quick and safe to use forehead strip uses heat sensitive liquid encased in plastic film. Ideal for small children. Comes complete with protective case and full instructions

Range: +35 to +40°C&F  
Dimensions: 39 x 99 x 10mm (case closed)



11/465/3 (C&F)  
PIP Code: 046-6143

## Ovulation Thermometer & Charts

Easy to use electronic thermometer complete with instructions and recording charts for daily readings.  
Range: +35 to +42.9°C  
Dimensions: 210 x 150mm



11/020/3 (C only)  
PIP Code: 032-6850

The following range of instruments assist in the preparation and safe storage of food to minimise the risk of harmful contamination.

Please note, products marked \* may have different upper and lower temperature extremes than stated due to manufacturing processes.



### Vertical Fridge or Freezer

140mm white vertical fridge or freezer thermometer with blue temperature scale indicating recommended zones.  
Range: -30 to +40°C\*  
Dimensions: 130 x 40 x 22mm



22/491/2 (C only)  
PIP Code: 261-0913

### Baby Food & Bath

A simple and accurate method of ensuring baby's milk, food or bath water is at the appropriate temperature. Supplied in reversible protective case.  
Range: 0 to +60°C&F\*  
Dimensions: 150 x 20mm



18/348/3 (C&F)  
PIP Code: 032-6942

### Electronic Fridge or Freezer

Electronic thermometer which displays fridge or freezer and room temperature. Alarm feature and 1m cable with suction pad.  
Range: -50 to +70°C&F (switchable).  
Dimensions: 135 x 25 x 20mm  
LCD Dimensions: 58 x 12mm



22/400/3 (C&F)  
PIP Code: 032-6942

### Horizontal Fridge or Freezer

130mm white horizontal fridge or freezer thermometer with blue temperature scale indicating recommended zones.  
Range: -30 to +40°C\*  
Dimensions: 130 x 40 x 22mm



22/483/2 (C only)  
PIP Code: 033-1462

### Maximum Recording Fridge Guard

130mm white horizontal fridge guard thermometer with blue temperature scale indicating recommended zones and marker to indicate maximum temperature reached.  
Range: -30 to +30°C\*  
Dimensions: 130 x 40 x 22mm



22/482/2 (C only)  
PIP Code: 291-2632

### Classic Dial Fridge or Freezer

65mm white dial fridge or freezer thermometer with blue and red temperature scale indicating recommended zones and penguin design.  
Range: -30 to +30°C  
Dimensions: 85 x 65 x 12mm



22/475/2 (C only)  
PIP Code: 033-1850

Babies, young children and the elderly are particularly susceptible to fluctuations in temperature and it is therefore important to maintain a balanced environment for them.

Please note, products marked \* may have different upper and lower temperature extremes than stated due to manufacturing processes.

## Plastic Wall Hypothermia

Wall thermometer with zones to help determine the most comfortable and economical settings for your home.

Range: -5 to +50°C\*  
Dimensions: 145 x 34 x 7mm

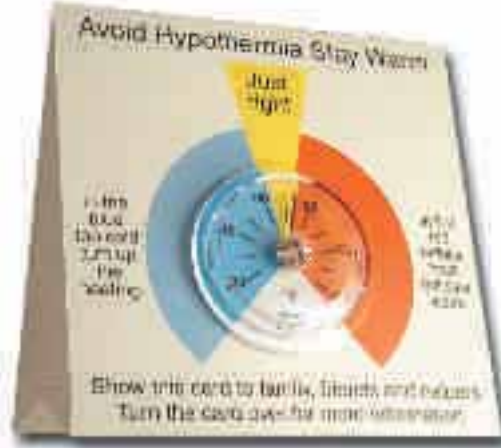


14/862/2 (C only)  
PIP Code: 261-0996

## Carded Hypothermia

65mm dial hypothermia thermometer on printed card with large easy to read coloured zones. Card opens to stand on table or worktop.

Range: 20 to +120°F  
Dimensions: 150 x 150 x 80mm



14/865/3 (F only)  
PIP Code: 320-1829

## Quick Set Max Min

Environmentally friendly max/min thermometer which uses a blue coloured liquid to replace the usual mercury filled tube but retains the ease and operation of the mercury instrument.

Range: -35 to +50°C&F\*  
Dimensions: 205 x 55 x 27mm



22/992/2 (C only)  
PIP Code: 320-1779

12/408/3 (C&F)  
PIP Code: 320-1795

## Teddy Bear Nursery Wall

240mm wall thermometer with Teddy Bear design. Printed with orange and green scale with zones to indicate recommended nursery temperatures.

Range: -15 to +50°C&F\*  
Dimensions: 240 x 65 x 8mm



14/472/2 (C only)  
PIP Code: 320-1837

## Vaccine

Vertical hanging thermometer with zones to indicate the safe storage temperature for vaccines and medicines.

Range: -30 to +50°C\*  
Dimensions: 144 x 18 x 6mm



## Blood Bank Bottle

This unique combination of short scale thermometer fitted in a sealed bottle will smooth out temperature fluctuations caused by the operation of thermostats or opening the storage cabinet.

Range: -5 to +20°C&F\*  
Dimensions: 38 x 38 x 140mm



22/100/2 (C only)  
PIP Code: 320-1787



The following is a range of electronic instruments to assist with the monitoring of environmental conditions.

### Electronic Indoor Outdoor Thermometer

White moulded case with two displays for outdoor and indoor temperature, each display has a max min recording facility and the display can be either °C or °F. Complete with 2.5m long cable for the outdoor probe and stand.

Range: Indoor: 0 to 50°C&F  
 Outdoor: -50 to 70°C&F  
 Dimensions: 98 x 74 x 17mm  
 LCD Dimensions: 35 x 52mm



12/412/3 (C&F)  
 PIP Code: 320-1803

### Lightswitch Thermometer & Humidity Meter

This electronic instrument attaches to a light-switch wall plate and shows temperature and humidity of the room.

The thermometer has an accuracy of ±1.5°C (±3°F) and the humidity meter has an accuracy of ±10%.

Temperature range: -8 to 50°C&F  
 Humidity range: 20 to 90%RH  
 Dimensions: 120 x 85 x 20mm  
 LCD Dimensions: 36mm x 14mm



14/401/2 (C&F)  
 PIP Code: 320-1811

### Waterproof Electronic Test Thermometer

Waterproof thermometer with max/min memory function and 120mm stainless steel probe. Supplied complete with pocket case and clip.

Range: -50 to 150°C&F  
 Dimensions: 200 x 20 x 15mm  
 LCD Dimensions: 7 x 17mm



31/162/0 (C&F)  
 PIP Code: 032-6942



### Countdown & Up Electronic Timer & Clock

99 minute / 59 second timer and 12 / 24 hour clock. Countdown and up with memory function with hanger, stand and magnetic fixing. Batteries included.

Dimensions: 76 x 66 x 20mm  
 LCD Dimensions: 48 x 20mm



28/210/0  
 PIP Code: 320-1845

### Pulse Rate Pedometer with Timer

Pulse rate check and step counter. Displays target and actual calories burnt in a day. Sports timer up to 59'59"99. 1/100 second stopwatch. Real time clock (12/24 hour). Fitted with belt clip.

Dimensions: 64 x 49 x 27mm



28/300/0  
 PIP Code: 319-6672

A range of bath thermometers to assist in obtaining the correct water temperature and therefore avoiding the risk of scalding or chilling. This is invaluable for babies and elderly people. Please note, products marked \* may have different upper and lower temperature extremes than stated due to manufacturing processes.

## Digital Water Thermometer

This thermometer offers a quick, fun way to check bath water to avoid the risk of scalding and has a beeper warning when the water temperature is too hot. Ideal for use with babies or small children. The thermometer has an accuracy of  $\pm 0.5^{\circ}\text{C}$  and is 100% water resistant.

Range: 0 to  $+60^{\circ}\text{C}$

Dimensions: 109 x 100 x 65mm

LCD Dimensions: 12 x 28mm



18/450/2 (C only)  
PIP Code: 319-6664



18/126/3 (C&F)  
PIP Code: 031-3601

## Fish Shaped Bath

A quick, fun way to check bath water temperature. Recommended temperatures marked with zone.  
Range: 6 to  $+50^{\circ}\text{C}$   
Dimensions: 153 x 60 x 15mm



## Horizontal Bath

140mm white bath thermometer with zones showing recommended water temperature.

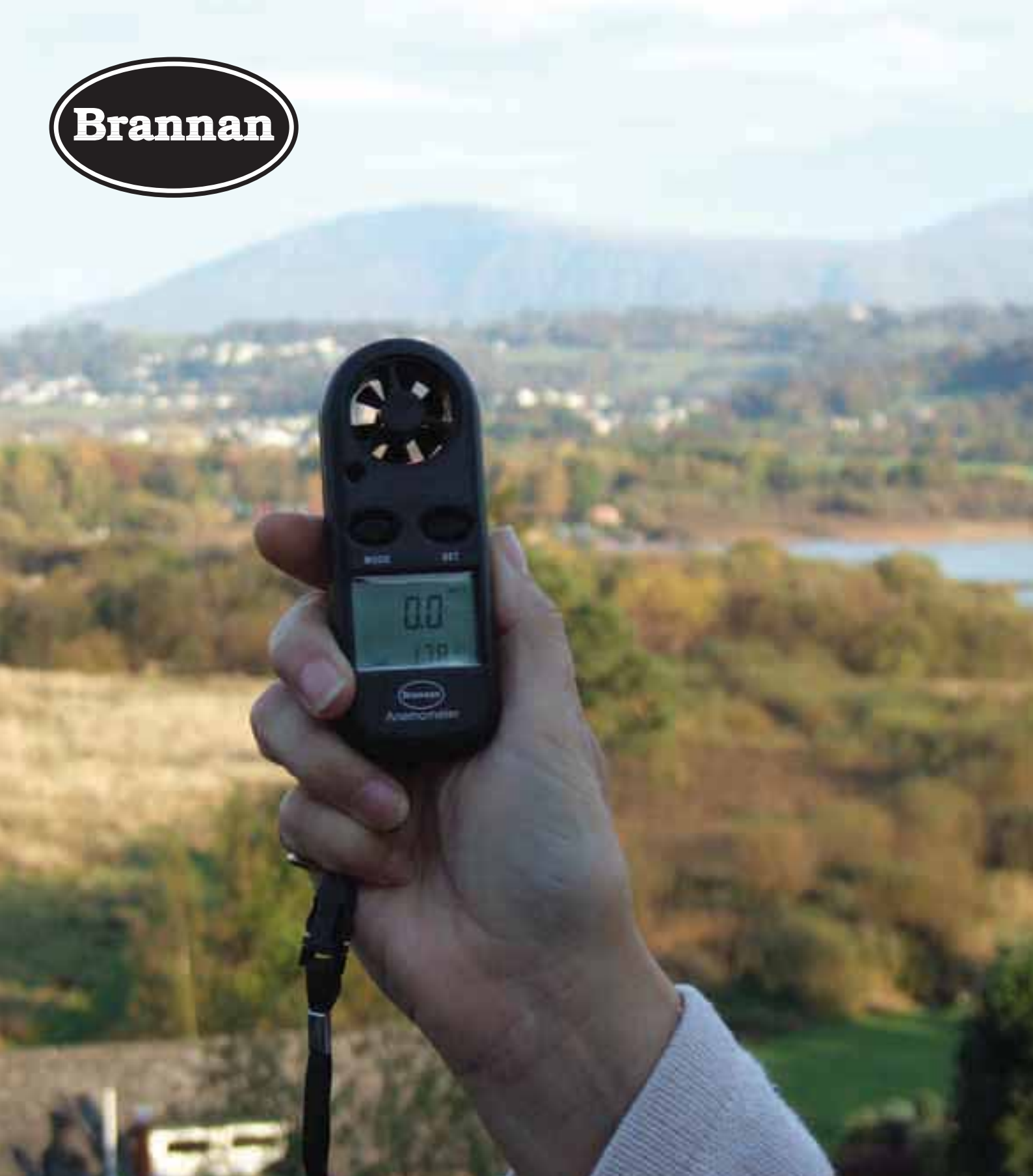
Range: 0 to  $+60^{\circ}\text{C}$ &F\*

Dimensions: 140 x 25 x 10mm



18/132/3 (C&F)  
PIP Code: 319-6664

18/420/2 (C only)  
PIP Code: 291-2624



# Meteorological Range

Thermometers, Hygrometers, Barometers, Anemometers,  
Environmental Meters

Instruments for meteorological measurement by professionals and amateurs.

## Rain Gauge

Heavy duty, UV stabilised polypropylene moulded funnel and body. The measuring jar acts as the collection vessel. Calibrated in mms and inches, complete with a rainfall chart.

Dimensions: 290 x 120mm diameter



## Wireless Rain Gauge

Digital, wireless raingauge with max/min rainfall and temperature memory. History of hourly, daily, weekly and monthly rainfall. Features include temperature alert, calendar and clock.

Dimensions: 178 x 84 x 24mm (main unit)  
128 x 120mm diameter (raingauge)  
LCD Dimensions: 62 x 45mm



## Direct Reading Rain Gauge

A simple rain gauge in translucent material calibrated in mms and inches. Supplied complete with rainfall chart.

Dimensions: 210 x 100mm diameter



13/414/3

13/070/0  
Spare 100mm Jar 13/061/0  
Spare Weather Register Book 13/062/0

13/441/0 (C&F)



## Wireless Weatherstation

Wireless temperature, humidity sensor and rainfall gauge transmitter with a range of up to 30m. Max min memory of temperature and humidity. History of daily, weekly, monthly and seasonal rainfall. Features include weather forecast for the following six hours with weather icons by barometric sensor, temperature alert, calendar and clock. Transparent LCD with dimmer button for adjustable brightness backlight.

Dimensions: 200 x 135 x 102mm (main unit)  
137 x 145mm diameter (raingauge)  
100 x 70 x 15mm (transmitter)  
LCD Dimensions: 80 x 125mm (main unit)  
16 x 32mm (transmitter)



13/440/0 (C&F)

## Wireless Indoor Outdoor Thermometer & Hygrometer

Wireless unit with radio frequency for transmission and reception up to 30m. C or F selectable indoor outdoor temperature at a glance with max min temperature memory and hygrometer.

Dimensions: 121 x 72 x 24mm (main unit)  
100 x 70 x 22 mm (raingauge)  
LCD Dimensions: 35 x 40mm



12/425/3 (C&F)

## Indoor Outdoor Thermometer

Silvered front with black trim. Large display with simultaneous reading of temperature and humidity. Temperature readings can be switched indoor or outdoor and from °C to °F. Press button activates maximum and minimum readings and alarm function on both temperature and humidity. Stands or hangs on wall. Complete with 2.8 metres of cable for the outdoor probe. Range: Indoor: 0 to 50°C&F  
Outdoor: -50 to 70°C&F  
Dimensions: 98 x 74 x 17mm  
LCD Dimensions: 35 x 52mm



13/420/3 (C&F)

## Jumbo Electronic Max Min

White and blue case with two large displays for indoor temperature and humidity or outdoor temperature. Complete with 2m long cable for the outdoor probe. Temperature Range: Indoor: -10 to 50°C&F  
Outdoor: -50 to 70 °C&F  
Humidity Range: 20 to 99%RH  
Dimensions : 109 x 98 x 20mm  
LCD Dimensions: 65 x 78mm



12/421/3 (C&F)

## Electronic Max Min Indoor Outdoor Thermometer

White moulded case with two displays for outdoor and indoor temperature, each display has a maximum and minimum recording facility and the display can be either °C or °F. Complete with 2.5m long cable for the outdoor probe and stand. Range: Indoor: 0 to 50°C&F  
Outdoor: -50 to 70°C&F  
Dimensions: 98 x 74 x 17mm  
LCD Dimensions: 35 x 52mm



12/412/3 (C&F)

## Indoor Outdoor with Clock

Dual scale (switchable) indoor outdoor thermometer with clock. Hanging, standing or magnetic fixtures, with 95cm cable. Range: -50 to 70°C&F.  
Dimensions: 82 x 74 x 21mm  
LCD Dimensions: 21 x 48mm



14/437/3 (C&F)

## Gilt Dial Barometer

Dial instrument with gold coloured scale and gilt bezel. Black pointer and printed scale. Range: 960 to 1070 millibar and 720 to 800mm mercury. Dimensions: 68mm diameter



28/009/0

## Gilt Dial Thermometer & Hygrometer

100mm gilt dial with temperature and humidity scales printed in black. Temperature range: -20 to +50°C&F  
Humidity Range: 0 to 100%RH  
Dimensions: 100mm diameter



30/407/3 (C&F)

## Gilt Dial Max Min & Hygrometer

Attractive dial max min with gilt bezel and black plastic case. Red and blue indicators with hygrometer. Temperature range: -20 to +50°C&F  
Humidity Range: 0 to 100%RH  
Dimensions: 100mm diameter



12/413/3 (C&F)

Environmental meters for wind speed, sound, humidity, temperature and light.

### Compact Sound Meter

Easy to use electronic sound meter for monitoring sound levels such as traffic and workplace machinery. It has a background noise absorber mode to filter ambient sounds and incorporates a max min record and max hold function. This instrument meets IEC 6451; Type 2 standard and comes complete with a carry case, battery and full instructions.

Ranges: 30 to 100 dB,  
60 to 130 dB,  
Dimensions: 210 x 55 x 32mm  
LCD Dimensions: 27.5 x 37.5mm



**New**

13/412/0

### Sound Meter

Easy to use electronic sound meter for monitoring sound levels such as traffic and workplace machinery. It has a background noise absorber mode to filter ambient sounds and incorporates a max min record and max hold function. This instrument meets

IEC 6451; ANSI S1.4 type 2 standard and comes complete with a heavy duty carry case.  
6 measurement level ranges in 10dB steps  
Dimensions: 256 x 80 x 38mm  
LCD Dimensions: 42 x 62mm



13/404/0

### Wind Speed Meter

A hand held instrument giving an accurate wind speed measurement. Dual ranges, lower range up to 10mph, second scale up to 60mph. Supplied with simple instructions.

Dimensions: 170 x 43 x 15mm



13/700/0

### Digital Wind Speed Meter

An easy to use hand held, electronic anemometer giving accurate wind speed measurement and ambient temperature. Wind speed units in m/s, ft/min, knots, km/hr, mph.

Range: 0 to 30 m/second  
0 to 90 km/hour  
-10 to +45° C&F  
Dimensions: 170 x 43 x 15mm  
LCD Dimensions: 23 x 32mm



13/430/0

### Anemometer & Thermometer

A wind speed meter with simultaneous display of air flow plus ambient temperature. High sensitivity and accuracy.

Range: 0.0 to 45.0 m/second  
(0.0 to 140 km/hour)  
Temperature range: 0 to 60°C&F  
Dimensions: 150 x 72 x 35mm  
LCD Dimensions: 45 x 55mm



13/409/0

### CFM/CMM Anemometer & Thermometer

A wind speed meter with simultaneous display of air flow or air velocity plus ambient temperature and max min feature. High sensitivity and accuracy.

Range: 0.4 to 30 m/second  
(1.4 to 108 km/hour)  
Temperature range: -10 to 60°C&F



Dimensions: 150 x 72 x 35mm  
LCD Dimensions: 45 x 55mm

13/411/0



## Humidity Meter & Thermometer



This instrument measures relative humidity and air temperature. The large, easy-to-read backlit LCD includes primary and secondary displays. Supplied complete with carry case, instruction manual and battery. Humidity range: 0.2 to 100%RH. Temperature range: -20 to 1000°C&F. Dimensions: 170 x 85 x 40mm LCD Dimensions: 57 x 47mm

For information on K-type probes suitable for use with this instrument, please see below.

13/405/0

## Humidity Meter with Dew Point & Thermometer



A digital instrument which has been designed to combine the functions of a thermometer and a humidity meter with dew point indicator. Supplied complete with carry case, instruction manual and battery. Humidity range: 0 to 100%RH. Temperature range: -30 to 100°C&F. Dimensions: 225 x 45 x 34mm LCD Dimensions: 25 x 27mm

13/407/0

## 4-in-1 Multi-Function Environment Meter

A multi-function environmental meter which has been designed to combine the functions of sound level meter, light meter, humidity meter and thermometer. Supplied complete with carry case, instruction manual and battery. For information on K-type probes suitable for use with this instrument, please see below. Humidity range: 25 to 95%RH.

Temperature range: -20 to 750°C&F.  
Sound meter range: 35 to 130dB.  
Light meter range: 20,000 lux.  
Dimensions: 251 x 63.8 x 40mm  
LCD Dimensions: 50 x 30mm

13/408/0



## Light Meter



This meter is a precision instrument used to measure illuminance in the field. It meets CIE photopic spectral response and is fully corrected for angular incidence of light. Supplied complete with carry case, instruction manual and battery. Light meter range: 400,000 lux. Dimensions: 170 x 80 x 40mm LCD Dimensions: 57 x 47mm

13/406/0

## K-Type Probes

Range of four K-Type probes cover solids and liquids, gas and air and contact applications. The probes can be used with our own instruments (13/405/0, 13/408/0, 38/680/0, 38/712/0, 38/802/0) as well as customer's own appropriate units.



38/690/0

38/691/0

38/692/0

38/693/0

185mm Stainless Steel K-type probe with 130mm handle suitable for use with solids and liquids:  
165mm Stainless Steel K-type probe with 130mm handle suitable for use with gas and air:  
240mm Stainless Steel K-type probe with 125mm handle suitable for contact use:  
K-type probe set into 120mm handle suitable for contact use:

Range: -50 to 800°C&F	38/690/0
Range: -50 to 800°C&F	38/691/0
Range: -50 to 450°C&F	38/692/0
Range: -50 to 450°C&F	38/693/0

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. Red spirit tubes are easy to read. Complete with calculator and instructions to determine % RH. Normally used in a Stevenson Screen.  
Range: -5 to +50°C&F\*  
Dimensions: 310 x 77 x 32mm



13/222/3 (C&F)  
13/222/2 (C only)

## Hair Hygrometer

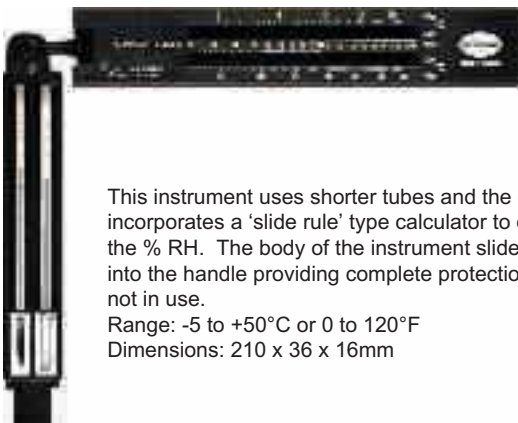
100mm dial instrument with gold coloured scale and polished brass bezel and hanging ring, complete with instructions.  
Range: 0 - 100%RH  
Dimensions: 28 x 105mm diameter



30/900/0

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.

## 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.

Range: -5 to +50°C or 0 to 120°F  
Dimensions: 210 x 36 x 16mm

LO-tox™ filling	13/606/2 (C only)	Refill: 13/605/2 (C only)
	13/606/1 (F only)	Refill: 13/605/1 (F only)
Mercury filling	13/600/2 (C only)	Refill: 13/601/2 (C only)
	13/600/1 (F only)	Refill: 13/601/1 (F only)

## Whirling Hygrometer with Folding Handle



This traditional model has a folding handle and is available with mercury tubes in addition to the more environmentally friendly blue spirit filling. Protection is provided in a canvas carry case.

Range: 0 to 50°C  
Dimensions: 237 x 143 x 29mm

Mercury filling	13/644/2 (C only)	Refill: 13/045/2 (C only)
Spirit filling	13/744/2 (C only)	Refill: 13/044/2 (C only)



**Brannan**



# Special Application Instruments

Thermometers, Hygrometers

# Special Application Wall Thermometers

The following range of wall thermometers all show the recommended temperature for the workplace. Please note, products marked \* may have different upper and lower temperature extremes than stated due to manufacturing processes.

## 380mm Workplace

A large wall thermometer, moulded in white plastic, giving clear indication of recommended temperature for workplace in accordance with the Workplace (Health, Safety & Welfare) Regulations 1992 Section 7.  
 Range: -30 to +50°C&F\*  
 Dimensions: 380 x 75 x 10mm



14/374/3 (C&F)

## 240mm Workplace

A wall thermometer, moulded in white plastic with recommended temperature for workplace in accordance with the Workplace (Health, Safety & Welfare) Regulations 1992 Section 7.  
 Range: -20 to +50°C&F\*  
 Dimensions: 240 x 65 x 10mm



14/390/3 (C&F)

## 215mm Workplace

A smaller product ideally suited to an office or shop environment showing recommended temperature for workplace in accordance with the Workplace (Health, Safety & Welfare) Regulations 1992 Section 7.  
 Range: -20 to +50°C&F\*  
 Dimensions: 215 x 40 x 7mm



14/410/3 (C&F)

## Large Plastic Wall

Large wall thermometer with bold print. Suitable for indoor and outdoor use. Also available with low range for use in colder situations.  
 Standard Range: -10 to +50°C&F\*  
 Low Range: -50 to +50°C&F\*  
 Dimensions: 380 x 75 x 10mm



Standard Range: 14/433/3 (C&F)  
 14/433/2 (C only)  
 Low Range: 14/204/3 (C&F)  
 14/204/2 (C only)

## Cellar

It is important that your cellar is kept at a constant temperature. This thermometer is suitable for storage of beers and wines, with clearly marked zone on scale to indicate recommended storage temperature.  
 Range: -5 to +25°C&F\*  
 Dimensions: 240 x 65 x 8mm



14/705/3 (C&F)

## Low Range Wall

These thermometers show a lower range than our standard room thermometers. They are ideal for outdoor uses in cold climate conditions.  
 Range: -40 to +50°C&F\*  
 Dimensions: 240 x 65 x 10mm



14/810/3 (C&F)  
 14/810/2 (C only)

## Metal Tobacco Barn

Metal scaled tobacco barn thermometer with coloured zones and adjustable pointer.  
 Range: 10 to +110°C&F\*  
 Dimensions: 222 x 60 x 10mm



27/358/3 (C&F)



Glass thermometers are the most popular and economic instrument for test purposes. Since mercury is no longer preferred as the filling liquid, due to its potential hazard, Brannan have developed a blue coloured alternative **LO-tox™** filling combining 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 alternative case types.

### 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: -30 to +50°C/C&F  
 0 to +50°C/C&F  
 -10 to +110°C/C&F

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: -30 to +50°C/C&F  
 0 to +50°C/C&F  
 -10 to +110°C/C&F

Dimensions: 160 x 12mm diameter



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

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

### Aluminium Case with Slot Front

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

Ranges: -30 to +50°C/C&F  
 0 to +50°C/C&F  
 -10 to +110°C/C&F

Dimensions: 158 x 11mm diameter



### Heavy Duty Aluminium Case

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

Ranges: -30 to +50°C/C&F  
 0 to +50°C/C&F  
 -10 to +110°C/C&F

Dimensions: 165 x 12mm diameter



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

Range	Sub Divisions	LO-tox™	Red Spirit
-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

## Batch Sampling

These precision test thermometers are sealed into a square, 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 term fluctuations caused by thermostatic variations or through the opening of cabinet doors. Clear reading **LO-tox™** blue filling eliminates the risk of mercury contamination. A variety of ranges are available covering critical temperature spans for specific applications. Ranges: as table below  
Dimensions: 38 x 38 x 140mm



Range	Application	Product No
+20 to +130°C	Oven	17/102/2
-5 to +20°C	Blood Bank	22/100/2
-30 to 0°C	Freezer	22/101/2
-5 to +20°C	Refrigerator	22/103/2
+18 to +50°C	Incubator	22/105/2

## Maximum Reading Sampling

An index records the maximum temperature of the process. The index is reset with the magnet supplied. Range: -30 to +30°C  
Dimensions : 38 x 38 x 190mm



22/104/2

## 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 instruments have 24mm dials 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. Ranges: as table below  
Dimensions: 24 x 125mm



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

## Portable 100mm Dial

These robust instruments have diecast aluminium cases and chrome bezel, heavy duty handles and 16mm diameter spike ended stainless steel stems. Ranges: as table below  
Dimensions: 310mm handle width, 100mm diameter dial plus stem length as table below



Range	Case Material	Stem Length	Product No
0 to +160°C&F	Silage	600mm	15/400/0
0 to +400°C&F	Asphalt/Bitumen	400mm	15/410/0
0 to +400°C&F	Asphalt/Bitumen	600mm	15/411/0
0 to +100°C&F	Concrete	400mm	15/440/0

## Glass Stem

These types of instruments are frequently required in the agricultural, horticultural and construction industries, to check temperatures of soil, compost, silage, concrete and road surfacing products. These are available in three lengths. Longer stems have more robust cases and all have a red knob at the top to assist with location. Ranges: as table below  
Dimensions: red knob - 26mm diameter x stem length as table below



Range	Application	Stem Length	Case	Product No
-35 to +50°C	Concrete/Soil	460mm	Brass	15/358/2
-10 to +60°C	Soil	320mm	Aluminium	15/554/2
-5 to +65°C&F	Soil	320mm	Aluminium	15/554/3
-10 to +110°C	Hotbed	320mm	Aluminium	15/354/2
-10 to +110°C&F	Hotbed	320mm	Aluminium	15/354/3
-10 to +60°C	Soil	230mm	Aluminium	13/417/2
-5 to +65°C&F	Soil	230mm	Aluminium	13/417/3

## Milk & Coffee Test

These 45mm diameter dial thermometers incorporate green and red zones enabling fast and easy temperature reading of your milk or coffee. The dials are available in a choice of a 125mm or 175mm probe and are supplied with a stainless steel jug mounting probe clip. Range: -10 to 100°C&F  
Dimensions: 45mm diam with 125/175mm probe



125mm Probe	31/150/0 (C&F)
175mm Probe	31/151/0 (C&F)

## Hotplate Thermometer

51mm dial bimetal thermometer with cone shaped contact plate fitted to stem. Range: 50 to 400°C  
Dimensions: 51mm diam x 68mm



32/300/0 (C only)

The monitoring of environmental conditions is important both in keeping of specialised or exotic varieties of fish, reptiles etc. The instruments on this page have a range of applications.

### Floating Pool & Pond

Thermometer to monitor the temperature of pond for carp or other fish. Blue float supports a white thermometer. Scale printed blue. Range: -5 to +60°C&F\* Dimensions: 240 x 45 x 35mm



18/416/3 (C&F)  
18/416/2 (C only)

### Brooder

Correct temperature control is essential for successful hatching. A thermometer will assist with the adjustment of thermostats and ventilation, helping to achieve optimum conditions during incubation. Choice of plastic or wooden thermometers, each with clearly marked zones. Range: -10 to +50°C only\* Dimensions: Plastic - 147 x 35 x 7mm Wooden - 217 x 39 x 10mm



20/155/2 (C only)



20/160/2 (C only)

### Scoop Pool & Pond

230mm blue scoop pool and pond thermometer with blue temperature scale. Range: -10 to +50°C&F Dimensions: 245 x 46 x 30mm



18/410/3 (C&F)

### Heavy Duty Fridge or Freezer

Heavy duty fridge and freezer thermometer with clear plastic cover which reduces the effect of short-term fluctuations caused by thermostatic variations or through the opening of cabinet doors. Moulded in white plastic with hanging clip stand and comes complete with stainless steel end clips for hanging. Range: -40 to +30°C&F\* Dimensions : 120 x 32 x 24mm



22/450/3 (C&F)

### Veterinary

Reversible cased thermometer with chart giving Hobday's specification (the normal body temperature for a variety of animals). Range: -35 to +42°C&F Dimensions: 150 x 20mm



11/014/3 (C&F)

### Terrarium Dial Thermometer

A compact instrument with a self adhesive pad which can be fixed inside climate controlled chamber such as a terrarium. Range: -10 to +50°C&F Dimensions: 15 x 60mm diameter



30/440/3 (C&F)  
30/440/2 (C only)

### Terrarium Dial Hygrometer

A compact instrument with a self adhesive pad which can be fixed inside climate controlled chamber such as a terrarium. Range: 0 to 100 %RH Dimensions: 15 x 60mm diameter



30/441/0 (% RH)

### Terrarium Thermometer & Hygrometer

A compact instrument with a self adhesive pad which can be fixed inside climate controlled chamber such as a terrarium. Range: -10 to +50°C&F / 0 to 100 %RH Dimensions: 130 x 60 x 15mm



30/442/3 (C&F & % RH)  
30/442/2 (C only & % RH)

# Scoop and Cup Sampling Thermometers

These instruments are used to test the temperatures of bulk liquids in storage or transport. While conventional test instruments may be unsuitable due to difficult access, these instruments may be lowered into the material and a sample withdrawn to ensure a reliable temperature reading.

## Copper Cased Scoop

These instruments use an insert comprising a 250mm long stainless steel scale plate with red spirit thermometer. The case is fabricated from copper sheet. Two dual scale temperature ranges are available with single scale (°C only) available to order.

Ranges: -40 to +60°C&F  
0 to +100°C&F

Dimensions: 255 x 40 x 35mm



Range: -40 to +60°C&F  
Range: -10 to +120°C&F

24/631/3  
24/731/3

## Plastic Cased Scoop

These instruments use an insert comprising a 250mm long stainless steel scale plate with red spirit thermometer. The case is moulded in black plastic. Two dual scale temperature ranges are available with single scale (°C only) available to order.

Ranges: -40 to +60°C&F  
0 to +100°C&F

Dimensions: 275 x 40 x 35mm



Range: -40 to +60°C&F  
Range: 0 to +100°C&F

24/630/3  
24/730/3

## Stem Type Glass Sampling

Two types of cases are available, one to accept 6.5mm diameter solid stem thermometer, 305mm long, the other has an enclosed scale type thermometer insert, 17mm diameter. Both are available in brass or stainless steel and a variety of temperature ranges are possible for the solid stem type. The temperature ranges listed are those most frequently requested. The thermometer inserts are red spirit filled.

Ranges: -10 to +110°C or °C&F - Solid Stem  
-30 to +120°C&F - Enclosed Scale

Dimensions: 325 x 20mm diameter cup - Solid Stem  
310 x 35mm diameter cup - Enclosed Scale



Range	Case Material	Type	Product No
-10 to +110°C	Stainless Steel	Solid Stem	24/001/2
-10 to +110°C&F	Stainless Steel	Solid Stem	24/001/3
-10 to +110°C	Brass	Solid Stem	24/002/2
-10 to +110°C&F	Brass	Solid Stem	24/002/3
-30 to +120°C&F	Brass	Enclosed Scale	24/006/3



**Brannan**

# Laboratory Thermometers

General Purpose, Educational and Specification  
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. Fitted with Brannan non roll end cap which has a ring to allow the thermometer to be suspended.



Range °C	Division	Length	Filling	Product No	
				76mm Imm	Total Imm
-10 to +50	1.0	155mm	Blue LO-tox™	-	44/850/7
-10 to +110	1.0	155mm	Blue LO-tox™	-	44/830/7
-35 to +50	1.0	305mm	Blue LO-tox™	44/801/8	44/809/8
-10 to +50	0.5	305mm	Blue LO-tox™	44/800/8	44/808/8
-20 to +110	1.0	305mm	Blue LO-tox™	44/802/8	44/810/8
-20 to +150	1.0	305mm	Blue LO-tox™	44/803/8	44/811/8
-10 to +210	1.0	405mm	Blue LO-tox™	44/805/8	44/812/8
-10 to +260	1.0	405mm	Blue LO-tox™	44/804/8	-
-10 to +300	1.0	305mm	Brown LO-tox™	44/815/0	-
-10 to +330	2.0	305mm	Brown LO-tox™	44/814/0	-
-1 to +51	0.1	405mm	Blue LO-tox™	44/820/0	44/821/0
-1 to +51	0.2	405mm	Blue LO-tox™	44/822/0	44/823/0
-1 to +101	0.2	405mm	Blue LO-tox™	44/824/0	44/825/0

These thermometers use specially selected filling materials 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 the non roll cap with ring.



Range °C	Division	Length	Filling	Product No	
				76mm Imm	Total Imm
-10 to +50	1.0	155mm	Red Spirit	-	44/450/0
-10 to +110	1.0	155mm	Red Spirit	-	44/430/0
-10 to +110	1.0	205mm	Red Spirit	44/423/0	44/100/4
-10 to +150	1.0	205mm	Red Spirit	44/441/0	44/442/0
-10 to +50	0.5	305mm	Red Spirit	44/401/0	44/401/1
-10 to +110	1.0	305mm	Red Spirit	44/403/0	44/010/8
-10 to +150	1.0	305mm	Red Spirit	44/406/0	44/011/8
-10 to +110	1.0	155mm	Blue Spirit	-	44/430/7
-10 to +110	1.0	305mm	Blue Spirit	44/403/7	44/010/7
-10 to +200	1.0	305mm	Blue Spirit	44/408/0	44/408/1
-10 to +110	1.0	155mm	Green Spirit	-	44/430/5
-10 to +110	1.0	205mm	Green Spirit	44/423/5	-
-10 to +110	1.0	305mm	Green Spirit	44/403/5	-
-50 to +50	1.0	305mm	Red Spirit	46/540/0	46/539/0
-100 to +50	1.0	305mm	Red Spirit	-	46/456/0
-200 to +30	1.0	355mm	Clear Pentane	-	46/440/0



Commercial grade mercury laboratory thermometers are available in easy to read, yellow back glass. They are fitted with a non roll cap and suspension ring.

Range °C	Division	Length	Immersion	Product No
-10 to +110	1.0	205mm	76mm	41/423/0
-10 to +150	1.0	205mm	76mm	41/441/0
-35 to +50	1.0	305mm	76mm	41/001/8
-10 to +50	0.5	305mm	76mm	41/401/0
-10 to +110	1.0	305mm	76mm	41/403/0
-10 to +110	0.5	305mm	76mm	41/803/0
-20 to +150	1.0	305mm	76mm	41/003/8
-10 to +200	1.0	305mm	76mm	41/408/0
-10 to +250	1.0	305mm	76mm	41/410/0
-10 to +300	1.0	305mm	76mm	41/412/0
-10 to +360	2.0	305mm	76mm	41/414/0
-10 to +400	2.0	405mm	76mm	41/005/8
-10 to +500	2.0	405mm	76mm	41/006/8
-10 to +50	1.0	155mm	Total	41/450/0
-5 to +105	1.0	155mm	Total	41/430/0
-10 to +250	5.0	155mm	Total	41/453/0
-10 to +360	5.0	155mm	Total	41/452/0
-10 to +110	1.0	205mm	Total	41/100/3
-10 to +150	1.0	205mm	Total	41/442/0
-35 to +50	1.0	305mm	Total	41/009/8
-10 to +50	0.5	305mm	Total	41/401/1
-20 to +110	1.0	305mm	Total	41/010/8
-10 to +110	0.5	305mm	Total	41/803/1
-20 to +150	1.0	305mm	Total	41/011/8
-10 to +200	1.0	305mm	Total	41/408/1
-10 to +250	1.0	305mm	Total	41/410/1
-10 to +300	1.0	305mm	Total	41/412/1
-10 to +360	2.0	305mm	Total	41/414/1
-10 to +400	2.0	405mm	Total	41/013/8
-10 to +500	2.0	405mm	Total	41/014/8



The following thermometers of higher accuracy with fractional degree sub-divisions together with various special purpose thermometers. All these instruments are made from yellow back glass and are mercury filled, fitted with non roll cap and ring.

Description	Range °C	Division	Length mm	Immersion	Product No
Fractional Degree	-1 to +51	0.2	355	Total	48/434/0
	-1 to +51	0.1	355	Total	48/435/0
	-1 to +51	0.2	355	76mm	48/454/0
	-1 to +51	0.1	355	76mm	48/455/0
	-1 to +51	0.1	460	Total	41/024/8
	-1 to +101	0.2	460	Total	48/436/0
	-1 to +51	0.1	460	76mm	41/027/8
	-1 to +101	0.2	460	76mm	48/456/0
Constricted Bore Maximum Reading	-20 to +110	1.0	250	Total	45/010/0
	-10 to +150	1.0	250	Total	45/011/0
	-10 to +200	1.0	305	Total	45/012/0
	-10 to +250	1.0	305	Total	45/013/0
Masons Melting Point Apparatus	0 to +150	0.5	250	30mm	46/801/0
	0 to +360	1.0	305	30mm	46/802/0



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



The **breaksafe** Safety Coated Thermometer is similar to the 200mm **initial™** Brand thermometer above. The **breaksafe** thermometer is encapsulated in PVC to contain any glass or filling material in the event of breakage.



Range	Division	Length	Immersion	Colour	Product No
-10 to +50°C	1.0°C	150mm	Total	Red	46/130/0
	0.5°C	300mm	76mm	Red	46/103/0
	1.0°C	150mm	Total	Green	46/130/5
	0.5°C	300mm	76mm	Green	46/103/5
	1.0°C	150mm	Total	Blue	46/130/7
	0.5°C	300mm	76mm	Blue	46/103/7
-10 to +110°C	1.0°C	150mm	Total	Red	46/330/0
		200mm	76mm	Red	46/323/0
		300mm	76mm	Red	46/303/0
		150mm	Total	Green	46/330/5
		200mm	76mm	Green	46/323/5
		300mm	76mm	Green	46/303/5
		150mm	Total	Blue	46/330/7
		200mm	76mm	Blue	46/323/7
-10 to +150°C	1.0°C	200mm	Total	Red	46/530/0
		300mm	76mm	Red	46/503/0
		200mm	Total	Green	46/530/5
		300mm	76mm	Green	46/503/5
		200mm	Total	Blue	46/530/7
		300mm	76mm	Blue	46/503/7
PVC Coated <b>initial™</b> Brand Thermometers					
-10 to +50°C	0.5°C	200mm	Total	Green	44/424/0
-10 to +110°C	1.0°C	200mm	76mm	Green	44/425/0
-10 to +150°C	1.0°C	200mm	76mm	Green	44/426/0
Uncalibrated Thermometer (for student calibration)					
Covers range -10+110°C,		305mm	76mm	Green	46/603/5
				Red	46/603/0
				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 case enclosing 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 thermometer

Boxed dimensions: 334 x 232 x 50mm



25/700/0

### Investigative Science Kit

Blue plastic case 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 'Spotcheck' clinical thermometer

Boxed dimensions: 334 x 232 x 50mm



25/701/0

### Classroom Wall Kit

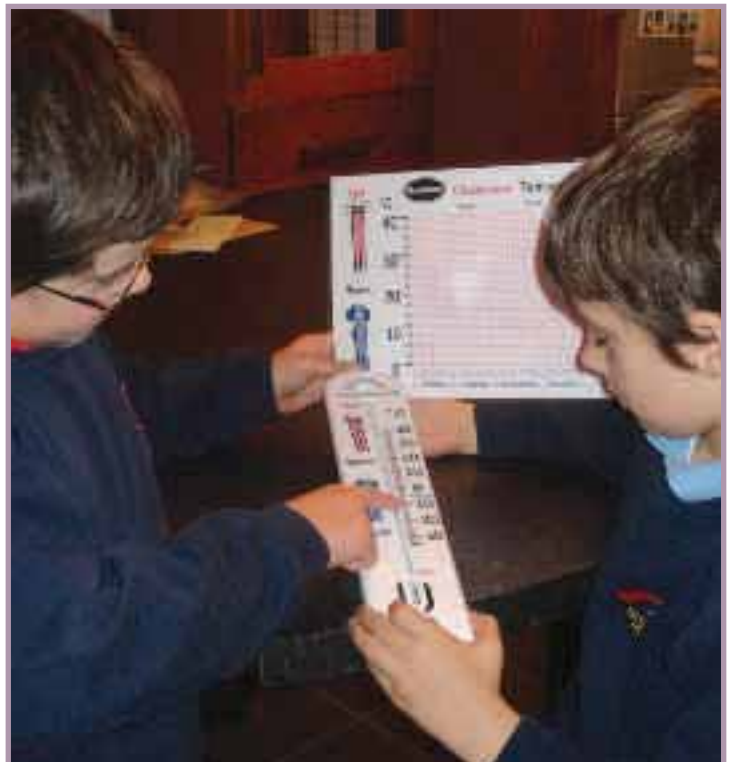
Colourful 380mm plastic wall thermometer and chart for recording temperatures.

Packaged dimensions: 365 x 287 x 10mm



Thermometer with chart 25/702/0

Thermometer without chart 25/703/0



In addition to traditional red spirit filled instruments are the Brannan **LO-tox™** thermometers. **LO-tox™** is a specially selected organic filling normally coloured blue, stable over a greater temperature span and providing the lowest practical level of hazard. The quality and legibility of these thermometers provide an ideal alternative to mercury. The thermometers are fitted with a non roll cap and suspension ring.



SAMA No	Range	Immersion	Division	Length mm	Product No LO-tox™
CT10	-35 to +50C	Total	1.0	305	44/809/8
CT15	-20 to +110C	Total	1.0	305	44/810/8
CT20	-20 to +150C	Total	1.0	305	44/811/8
FT10	-30 to +120F	Total	1.0	305	44/809/7
FT15	0 to +230F	Total	2.0	305	44/816/7
FT20	0 to +300F	Total	2.0	305	44/817/7
-	-10 to +210C	Total	1.0	405	44/812/8
CP10	-35 to +50C	76mm	1.0	305	44/801/8
CP15	-20 to +110C	76mm	1.0	305	44/802/8
CP20	-20 to +150C	76mm	1.0	305	44/803/8
CP25	-10 to +260C	76mm	1.0	405	44/804/8
-	-10 to +330C	76mm	2.0	305	#44/814/0
FP10	-30 to +120F	76mm	1.0	305	44/801/5
FP15	0 to +230F	76mm	2.0	305	44/802/7
FP20	0 to +300F	76mm	2.0	305	44/803/7
FP25	+20 to +500F	76mm	2.0	405	44/804/7
CFP15	-20 to +110C 0 to +230F	76mm	1.0 2.0	305	44/802/5
CFP20	-20 to +150C 0 to +300F	76mm	1.0 2.0	305	44/803/5
CFP25	-10 to +260C +20 to +500F	76mm	1.0 2.0	405	44/804/5

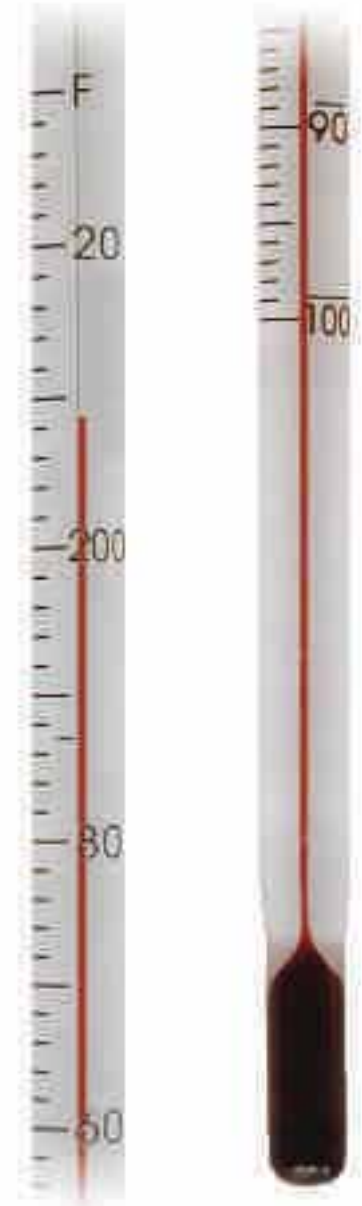
# **LO-tox™** Brown filling

\* The SAMA numbers used are the codes for the equivalent mercury thermometers and are for reference only.

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.

SAMA No	Range	Immersion	Division	Length mm	Product No LO-tox™
CT55	-100 to +50C	Total	1.0	305	46/456/0
CT60	-50 to +50C	Total	1.0	305	46/539/0
CT10	-35 to +50C	Total	1.0	305	44/009/8
CT15	-20 to +110C	Total	1.0	305	44/010/8
CT20	-20 to +150C	Total	1.0	305	44/011/8
FT10	-30 to +120F	Total	1.0	305	44/009/7
FT15	0 to +230F	Total	2.0	305	44/016/7
FT20	0 to +300F	Total	2.0	305	44/017/7
-	-20 to +110C 0 to +230F	Total	1.0 2.0	305	44/010/9
-	-20 to +150C 0 to +300F	Total	1.0 2.0	305	44/011/9
-	-100 to +50C	76mm	1.0	305	46/457/0
-	-50 to +50C	76mm	1.0	305	46/540/0
CP10	-35 to +50C	76mm	1.0	305	44/001/8
CP15	-20 to +110C	76mm	1.0	305	44/002/8
CP20	-20 to +150C	76mm	1.0	305	44/003/8
FP10	-30 to +120F	76mm	1.0	305	44/001/7
FP15	0 to +230F	76mm	2.0	305	44/002/7
FP20	0 to +300F	76mm	2.0	305	44/003/7
CFP15	-20 to +110C 0 to +230F	76mm	1.0 2.0	305	44/002/9
CFP20	-20 to +150C 0 to +300F	76mm	1.0 2.0	305	44/003/9

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



# SAMA Type General Purpose Mercury Filled

These thermometers generally conform to the American National Standards Institute specification ANSI Z 236.1 1983 (sponsored by the Scientific Apparatus Makers Association - SAMA).

Mercury filled thermometers are available in white back, or easier to read, yellow back glass. The thermometers are fitted with a non roll cap and suspension ring.



SAMA No	Range	Division	Length mm	Immersion	Product No
CT10	-35 to +50C	1.0	305	Total	41/009/8
CT15	-20 to +110C	1.0	305	Total	41/010/8
CT20	-20 to +150C	1.0	305	Total	41/011/8
CT25	-10 to +260C	1.0	405	Total	41/012/8
CT30	-10 to +400C	2.0	405	Total	41/013/8
CT35	-10 to +500C	2.0	405	Total	41/014/8
FT10	-30 to +120F	1.0	305	Total	41/015/7
FT15	0 to +230F	2.0	305	Total	41/016/7
FT20	0 to +300F	2.0	305	Total	41/017/7
FT25	+20 to +500F	2.0	405	Total	41/018/7
FT30	+20 to +750F	5.0	405	Total	41/019/7
FT35	+20 to +930F	5.0	405	Total	41/020/7
CP10	-35 to +50C	1.0	305	76mm	41/001/8
CP15	-20 to +110C	1.0	305	76mm	41/002/8
CP20	-20 to +150C	1.0	305	76mm	41/003/8
CP25	-10 to +260C	1.0	405	76mm	41/004/8
CP30	-10 to +400C	2.0	405	76mm	41/005/8
CP35	-10 to +500C	2.0	405	76mm	41/006/8
FP10	-30 to +120F	1.0	305	76mm	41/001/7
FP15	0 to +230F	2.0	305	76mm	41/002/7
FP20	0 to +300F	2.0	305	76mm	41/003/7
FP25	+20 to +500F	2.0	405	76mm	41/004/7
FP30	+20 to +750F	5.0	405	76mm	41/005/7
FP35	+20 to +930F	5.0	405	76mm	41/006/7



These products complete the list above with double scale thermometers and fractional degree types which are only available in yellow back glass.

SAMA No	Range	Division	Length mm	Product No (yellow back)
<b>Partial, 76mm Immersion Double Scale Thermometers</b>				
CFP15	-20 to +110C & 0 to +230F	1.0 2.0	305	41/021/9
CFP25	-10 to +260C & +20 to +500F	1.0 2.0	405	41/022/9
CFP30	-10 to +400C & +20 to +750F	2.0 5.0	405	41/023/9
<b>Fractional Degree, Total Immersion Thermometers</b>				
CT40	-1 to +51C	0.1	460	41/024/8
CT45	-1 to +101C	0.1	610	41/025/8
CT50	-1 to +201C	0.2	610	41/026/8
FT40	+30 to +124F	0.2	460	41/024/7
FT55	+30 to +214F	0.2	610	41/025/7
FT50	+30 to +394F	0.5	610	41/026/7

BS 1704 : 1985 is identical to ISO 1770 - 1981 (revised in 1983). The specification includes standard thermometers (designation A to H) and thermometers of higher accuracy (designation J to W).

Thermometers with ranges below -35°C are red spirit filled. All other ranges are mercury filled and are made of yellow back glass, wherever possible.

The designation reference for partial (75mm) immersion types is suffixed "/75".

Designation		Range	Sub Div	Length mm	Product No	
Total	Partial				Total Imm	75mm Imm
A	-	*-100 to +30C	1.0	305	*50/121/0	-
B	B/75	-35 to +30C	0.5	305	50/122/0	50/142/0
C	C/75	-5 to +60C	0.5	305	50/123/0	50/143/0
D	D/75	-5 to +105C	1.0	305	50/124/0	50/144/0
E	E/75	-10 to +160C	1.0	305	50/125/0	50/145/0
F	F/75	-10 to +250C	1.0	305	50/126/0	50/146/0
G	G/75	-10 to +360C	2.0	305	50/127/0	50/147/0
H	H/75	-10 to +500C	5.0	305	50/128/0	50/148/0
<b>Thermometers of Higher Accuracy</b>						
J	-	*-100 to +50C	1.0	305	*50/129/0	-
K	-	*-50 to +50C	1.0	305	*50/130/0	-
P	P/75	-35 to +50C	1.0	305	50/131/0	50/151/0
R	R/75	-20 to +110C	1.0	305	50/132/0	50/152/0
S	S/75	-20 to +150C	1.0	305	50/133/0	50/153/0
T	T/75	-10 to +260C	1.0	405	50/134/0	50/154/0
V	V/75	-10 to +400C	2.0	405	50/135/0	50/155/0
W	W/75	-10 to +500C	2.0	405	50/136/0	50/156/0
<b>Fractional Degree Thermometers</b>						
L	L/75	-1 to +51C	0.1	460	50/137/0	50/157/0
M	M/75	-1 to +101C	0.1	610	50/138/0	50/158/0
N	N/75	-1 to +201C	0.2	610	50/139/0	50/159/0

\*Red spirit filled



# BS 593 : 1989 Laboratory Thermometers

The thermometers covered by this Standard as listed below provide a higher accuracy than the BS 1704 : 1985 (150 1770-1981) on the previous page. We have only included celsius thermometers to the BS 593 specification. The thermometers are supplied as standard in yellow back glass wherever possible. Instruments whose range does not include 0°C are specified to have an auxillary "ice point" scale.



Designation	Nominal Range °C	Sub Div °C	Length mm	Immersion	Product No
A 10°C/Total	-30 to +10	0.1	405	Total	51/059/5
A 20°C/Total	-20 to +20	0.1	405	Total	51/060/0
A 40°C/Total	0 to +40	0.1	405	Total	51/061/0
A 70°C/Total	+40 to +70	0.1	405	Total	51/062/0
A 100°C/Total	+70 to +100	0.1	405	Total	51/063/0
A 130°C/Total	+100 to +130	0.1	405	Total	51/064/0
A 160°C/Total	+130 to +160	0.1	405	Total	51/065/0
B 60°C/Total	-20 to +60	0.2	405	Total	51/066/0
B 110°C/Total	+50 to +110	0.2	405	Total	51/067/0
B 160°C/Total	+100 to +160	0.2	405	Total	51/068/0
B 210°C/Total	+150 to +210	0.2	405	Total	51/069/0
B 260°C/Total	+200 to +260	0.2	405	Total	51/070/0
A 10°C/100	-30 to +10	0.1	405	100mm	51/001/0
A 20°C/100	-20 to +20	0.1	405	100mm	51/002/0
A 40°C/100	0 to +40	0.1	405	100mm	51/003/0
A 70°C/100	+40 to +70	0.1	405	100mm	51/004/0
A 100°C/100	+70 to +100	0.1	405	100mm	51/005/0
A 130°C/100	+100 to +130	0.1	405	100mm	51/006/0
A 160°C/100	+130 to +160	0.1	405	100mm	51/007/0
B 60°C/100	-20 to +60	0.2	405	100mm	51/008/0
B 110°C/100	+50 to +110	0.2	405	100mm	51/009/0
B 160°C/100	+100 to +160	0.2	405	100mm	51/010/0
B 210°C/100	+150 to +210	0.2	405	100mm	51/011/0
B 260°C/100	+200 to +260	0.2	405	100mm	51/012/0

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

Designation	IP No	ASTM Equiv	Nominal Range °C	Sub Div °C	Max Length mm	Immersion	Product No
F 50°C/100	77C	37C	-2 to +52	0.2	400	100mm	58/077/2
F 75°C/100	78C	38C	+24 to +78	0.2	400	100mm	58/078/2
F 100°C/100	79C	39C	+48 to +102	0.2	400	100mm	58/079/2
F 125°C/100	80C	40C	+72 to +126	0.2	400	100mm	58/080/2
F 150°C/100	81C	41C	+98 to +152	0.2	400	100mm	58/081/2
F 175°C/100	83C	102C	+123 to +177	0.2	400	100mm	58/083/2
F 200°C/100	84C	103C	+148 to +202	0.2	400	100mm	58/084/2
F 225°C/100	85C	104C	+173 to +227	0.2	400	100mm	58/085/2
F 250°C/100	86C	105C	+198 to +252	0.2	400	100mm	58/086/2
F 275°C/100	87C	106C	+223 to +277	0.2	400	100mm	58/087/2
F 300°C/100	88C	107C	+248 to +302	0.2	400	100mm	58/088/2
F 255°C/100	82C	42C	+95 to +255	0.5	400	100mm	58/082/2
F 150°C/76	-	1C	-20 to +150	1.0	327	100mm	59/001/2
F 300°C/76	62C	2C	-5 to +300	1.0	395	100mm	58/062/2
F 400°C/76	73C	3C	-5 to +400	1.0	420	100mm	58/073/2



The thermometers listed below are made in accordance with specifications drawn up by the Institute of Petroleum (IP) for use with specific test methods of petroleum and its products. Many of the tests and instrument specifications are jointly agreed with ASTM and they are marked accordingly. The list of these thermometers is now part of a British Standard.

While these thermometers were designed for specific tests, many of them have other uses as quality precision thermometers.

They are supplied in yellow back glass whenever possible.

IP No	ASTM Equiv	Name	Range °C	Sub Div	Max Length mm	Immersion Length mm	Product No
1C	5C	CLOUD & POUR	-38 to +50	1.0	235	108	58/001/2
2C	6C	LOW CLOUD & POUR	-80 to +20	1.0	235	76	58/002/2
3C	-	DEMULSIFICATION	-1 to +105	0.5	305	TOTAL	58/003/2
4C	-	CRUDE OIL DISTILLATION	-4 to +360	2.0	320	TOTAL	58/004/2
5C	7C	LOW DISTILLATION	-2 to +300	1.0	390	TOTAL	58/005/2
6C	8C	HIGH DISTILLATION	-2 to +400	1.0	390	TOTAL	58/006/2
8C	-	FLUSHING-CASE LOW	0 to +45	0.2	350	65	58/008/2
9C	-	FLUSHING-CASE MEDIUM	+40 to +85	0.2	350	65	58/009/2
14C	114C	AVIATION FUEL FREEZING POINT	-80 to +20	0.5	305	TOTAL	58/014/2
15C	9C	LOW PENSKY-MARTENS	-5 to +110	0.5	295	57	58/015/2
16C	10C	HIGH PENSKY-MARTENS	+90 to +370	2.0	295	57	58/016/2
17C	14C	WAX MELTING POINT	+38 to +82	0.1	380	79	58/017/2
18C	54C	CONGEALING POINT	+20 to +100.6	0.2	315	TOTAL	58/018/2
20C	33C	LOW ANILINE POINT	-38 to +42	0.2	425	50	58/020/2
21C	34C	MEDIUM ANILINE POINT	+25 to +105	0.2	425	50	58/021/2
22C	-	OXIDATION	+195 to +205	0.1	310	100	58/022/2
23C	18C	REID VAPOUR PRESSURE	+34 to +42	0.1	280	TOTAL	58/023/2
24C	22C	OXIDATION STABILITY	+95 to +103	0.1	280	TOTAL	58/024/2
-	-	ABEL WATER BATH	+32 to +88	0.5	228	# 61	58/025/2
-	-	ABEL OIL CUP	+10 to +65	0.5	228	# 89	58/026/2
28C	11C	CLEVELAND OPEN FLASH	-6 to +400	2.0	315	25	58/028/2
29C	44C	KINEMATIC VISCOSITY 20°C	+18.6 to +21.4	0.05	310	TOTAL	58/029/2
30C	45C	KINEMATIC VISCOSITY 25°C	+23.6 to +26.4	0.05	310	TOTAL	58/030/2
31C	28C	KINEMATIC VISCOSITY 37,8°C	+36.6 to +39.4	0.05	310	TOTAL	58/031/2
32C	121C	KINEMATIC VISCOSITY 98,9°C	+98.6 to +101.4	0.05	310	TOTAL	58/032/2
33C	128C	KINEMATIC VISCOSITY 0°C	-1.4 to +1.4	0.05	310	TOTAL	58/033/2
34C	29C	KINEMATIC VISCOSITY 54,4°C	+52.6 to +55.4	0.05	310	TOTAL	58/034/2
35C	47C	KINEMATIC VISCOSITY 60°C	+58.6 to +61.4	0.05	310	TOTAL	58/035/2
36C	129C	KINEMATIC VISCOSITY 93,3°C	+91.6 to +94.4	0.05	310	TOTAL	58/036/2
37C	-	SLUDGE	+144 to +156	0.2	280	100	58/037/2
38C	-	PEN	+23 to +27	0.1	270	TOTAL	58/038/2
39C	-	DENSITY	-1 to +38	0.1	450	TOTAL	58/039/2
40C	-	DROP POINT, LOW	+20 to +120	1.0	260	100	58/040/2
41C	-	DROP POINT, HIGH	+100 to +230	1.0	260	100	58/041/2
42C	-	BREAKING POINT	-38 to +30	0.5	380	250	58/042/2
43C	-	F P CUT BACK (INT)	+10 to +110	0.5	305	# 61	58/043/2
44C	-	F P CUT BACK (EXT)	+15 to +121	0.5	305	# 89	58/044/2
45C	-	REFRACTOMETER	+15 to +30	0.2	170	22	58/045/2
46C	-	WESTPHAL BALANCE	+14.5 to +21	0.1	170	TOTAL	58/046/2
47C	13C	LOSS ON HEATING	+155 to +170	0.5	160	TOTAL	58/047/2

# To suit 'Abel Apparatus'

IP No	ASTM Equiv	Name	Range °C	Sub Div	Max Length mm	Immersion Length mm	Product No
48C	-	TANK LOW	-38 to +30	0.5	315	TOTAL	58/048/2
49C	-	TANK MEDIUM	-15 to +40	0.5	315	TOTAL	58/049/2
50C	-	TANK HIGH	+10 to +65	0.5	315	TOTAL	58/050/2
34C	29C	KINEMATIC VISCOSITY 54,4°C	+52.6 to +55.4	0.05	310	TOTAL	58/034/2
35C	47C	KINEMATIC VISCOSITY 60°C	+58.6 to +61.4	0.05	310	TOTAL	58/035/2
36C	129C	KINEMATIC VISCOSITY 93,3°C	+91.6 to +94.4	0.05	310	TOTAL	58/036/2
37C	-	SLUDGE	+144 to +156	0.2	280	100	58/037/2
38C	-	PEN	+23 to +27	0.1	270	TOTAL	58/038/2
39C	-	DENSITY	-1 to +38	0.1	450	TOTAL	58/039/2
40C	-	DROP POINT, LOW	+20 to +120	1.0	260	100	58/040/2
41C	-	DROP POINT, HIGH	+100 to +230	1.0	260	100	58/041/2
42C	-	BREAKING POINT	-38 to +30	0.5	380	250	58/042/2
43C	-	F P CUT BACK (INT)	+10 to +110	0.5	305	# 61	58/043/2
44C	-	F P CUT BACK (EXT)	+15 to +121	0.5	305	# 89	58/044/2
45C	-	REFRACTOMETER	+15 to +30	0.2	170	22	58/045/2
46C	-	WESTPHAL BALANCE	+14.5 to +21	0.1	170	TOTAL	58/046/2
47C	13C	LOSS ON HEATING	+155 to +170	0.5	160	TOTAL	58/047/2
48C	-	TANK LOW	-38 to +30	0.5	315	TOTAL	58/048/2
49C	-	TANK MEDIUM	-15 to +40	0.5	315	TOTAL	58/049/2
50C	-	TANK HIGH	+10 to +65	0.5	315	TOTAL	58/050/2
51C	-	TANK HEATED FUEL	+35 to +120	0.5	315	TOTAL	58/051/2
52C	-	TANK BITUMEN	+90 to +260	1.0	315	TOTAL	58/052/2
53C	-	TANK CARGO	0 to +80	0.5	315	TOTAL	58/053/2
54C	-	ANGLE STEM - TANK LOW	-38 to +30	0.5	*	*	58/054/2
55C	-	ANGLE STEM - TANK MEDIUM	-15 to +40	0.5	*	*	58/055/2
56C	-	ANGLE STEM - TANK HIGH	+10 to +65	0.5	*	*	58/056/2
57C	-	ANGLE STEM - TANK HEATED FUEL	+35 to +120	0.5	*	*	58/057/2
58C	-	ANGLE STEM - TANK BITUMEN	+90 to +260	1.0	*	*	58/058/2
59C	35C	HIGH ANILINE POINT	+90 to +170	0.2	425	50	58/059/2
60C	15C	LOW SOFTENING POINT	-2 to +80	0.2	400	TOTAL	58/060/2
61C	16C	HIGH SOFTENING POINT	+30 to +200	0.5	400	TOTAL	58/061/2
62C	2C	PARTIAL IMMERSION	-5 to +300	1.0	395	76	58/062/2
63C	61C	PETROLATUM MELTING POINT	+32 to +127	0.2	385	79	58/063/2
64C	12C	DENSITY WIDE RANGE	-20 to +102	0.2	425	TOTAL	58/064/2
65C	43C	KINEMATIC VISCOSITY LOW	-51.6 to -34	0.1	425	TOTAL	58/065/2
66C	46C	KINEMATIC VISCOSITY 50°C	+48.6 to +51.4	0.05	310	TOTAL	58/066/2
67C	72C	KINEMATIC VISCOSITY -17,8°C	-19.4 to -16.6	0.05	310	TOTAL	58/067/2
68C	73C	KINEMATIC VISCOSITY -40°C	-41.4 to -38.6	0.05	310	TOTAL	58/068/2
69C	74C	KINEMATIC VISCOSITY -53,9°C	-55.4 to -52.6	0.05	310	TOTAL	58/069/2
71C	126C	KINEMATIC VISCOSITY -26,1°C	-27.4 to -24.6	0.05	310	TOTAL	58/071/2
72C	71C	OIL IN WAX	-37 to +21	0.5	360	76	58/072/2
73C	3C	PARTIAL IMMERSION	-5 to +400	1.0	420	76	58/073/2
74C	-	ABEL OIL CUP - WIDE RANGE	-35 to +70	0.5	320	# 61	58/074/2
75C	-	ABEL WATER BATH - WIDE RANGE	-30 to +80	0.5	320	# 89	58/075/2
76C	-	ENGLER VISCOSITY	+10 to +55	0.5	250	93	58/076/2
77C	37C	SOLVENTS DISTILLATION	-2 to +52	0.2	400	100	58/077/2
78C	38C	SOLVENTS DISTILLATION	+24 to +78	0.2	400	100	58/078/2
79C	39C	SOLVENTS DISTILLATION	+48 to +102	0.2	400	100	58/079/2
80C	40C	SOLVENTS DISTILLATION	+72 to +126	0.2	400	100	58/080/2

# To suit 'Abel Apparatus'

\* Dimensions not specified

IP No	ASTM Equiv	Name	Range °C	Sub Div	Max Length mm	Immersion Length mm	Product No
81C	41C	SOLVENTS DISTILLATION	+98 to +152	0.2	400	100	58/081/2
82C	42C	SOLVENTS DISTILLATION	+95 to +255	0.5	400	100	58/082/2
83C	102C	SOLVENTS DISTILLATION	+123 to +177	0.2	400	100	58/083/2
84C	103C	SOLVENTS DISTILLATION	+148 to +202	0.2	400	100	58/084/2
85C	104C	SOLVENTS DISTILLATION	+173 to +227	0.2	400	100	58/085/2
86C	105C	SOLVENTS DISTILLATION	+198 to +252	0.2	400	100	58/086/2
87C	106C	SOLVENTS DISTILLATION	+223 to +277	0.2	400	100	58/087/2
88C	107C	SOLVENTS DISTILLATION	+248 to +302	0.2	400	100	58/088/2
89C	113C	BITUMEN SOFTENING POINT - WIDE RANGE	-1 to +175	0.5	410	TOTAL	58/089/2
90C	48C	KINEMATIC VISCOSITY 82.2°C	+80.6 to +83.4	0.05	310	TOTAL	58/090/2
91C	-	RAPID FLASH	0 to +110	1.0	200	44	58/091/2
92C	120C	KINEMATIC VISCOSITY 40°C	+38.6 to +41.4	0.05	310	TOTAL	58/092/2
93C	110C	KINEMATIC VISCOSITY 135°C	+133.6 to +136.4	0.05	310	TOTAL	58/093/2
94C	122C	BROOKFIELD VISCOSITY	-45 to -35	0.1	305	TOTAL	58/094/2
95C	123C	BROOKFIELD VISCOSITY	-35 to -25	0.1	305	TOTAL	58/095/2
96C	124C	BROOKFIELD VISCOSITY	-25 to -15	0.1	305	TOTAL	58/096/2
97C	125C	BROOKFIELD VISCOSITY	-15 to -5	0.1	305	TOTAL	58/097/2
98C	-	RAPID FLASH (HIGH)	+100 to +300	2.0	200	44	58/098/2
99C	127C	KINEMATIC VISCOSITY -20°C	-21.4 to -18.6	0.05	310	TOTAL	58/099/2
100C	-	KINEMATIC VISCOSITY 80°C	+78.6 to +81.4	0.05	310	TOTAL	58/100/2
101C	-	MEDIUM PENSKY MARTENS	+20 to +150	1.0	295	57	58/101/2
102C	132C	KINEMATIC VISCOSITY 150°C	+148.6 to +151.4	0.05	310	TOTAL	58/102/2

# To suit 'Abel Apparatus'



# ASTM Thermometers - Designation : E1-01

The thermometers listed below are in accordance with specifications of the American Society for Testings and Materials (ASTM). Many of the instruments are identical to the IP (BS 2000) thermometers listed earlier and are marked accordingly.

While these thermometers were designed for use in specific tests many of them are used in other applications when precision thermometers are required.

They are supplied in yellow back glass whenever possible.

ASTM No	IP Equiv	Name	Range	Sub Div	Max Length mm	Immersion Length mm	Product No
1C	-	PARTIAL IMMERSION	-20 to +150C	1.0C	327	76	59/001/2
1F	-	PARTIAL IMMERSION	0 to +302F	2.0F	327	76	59/001/1
2C	62C	PARTIAL IMMERSION	-5 to +300C	1.0C	395	76	58/062/2
2F	-	PARTIAL IMMERSION	+20 to +580F	2.0F	395	76	59/002/1
3C	73C	PARTIAL IMMERSION	-5 to +400C	1.0C	420	76	58/073/2
3F	-	PARTIAL IMMERSION	+20 to +760F	2.0F	420	76	59/003/1
5C	1C	CLOUD & POUR	-38 to +50C	1.0C	235	108	58/001/2
5F	-	CLOUD & POUR	-36 to +120F	2.0F	235	108	59/005/1
6C	2C	LOW CLOUD & POUR	-80 to +20C	1.0C	235	76	58/002/2
6F	-	LOW CLOUD & POUR	-112 to +70F	2.0F	235	76	59/006/1
7C	5C	LOW DISTILLATION	-2 to +300C	1.0C	390	TOTAL	58/005/2
7F	-	LOW DISTILLATION	+30 to +580F	2.0F	390	TOTAL	59/007/1
8C	6C	HIGH DISTILLATION	-2 to +400C	1.0C	390	TOTAL	58/006/2
8F	-	HIGH DISTILLATION	+30 to +760F	2.0F	390	TOTAL	59/008/1
9C	15C	LOW PENSKY-MARTENS	-5 to +110C	0.5C	295	57	58/015/2
9F	-	LOW PENSKY-MARTENS	+20 to +230F	1.0F	295	57	59/009/1
10C	16C	HIGH PENSKY-MARTENS	+90 to +370C	2.0C	295	57	58/016/2
10F	-	HIGH PENSKY-MARTENS	+200 to +700F	5.0F	295	57	59/010/1
11C	28C	CLEVELAND OPEN FLASH	-6 to +400C	2.0C	315	25	58/028/2
11F	-	CLEVELAND OPEN FLASH	+20 to +760F	5.0F	315	25	59/011/1
12C	64C	DENSITY WIDE RANGE	-20 to +102C	0.2C	425	TOTAL	58/064/2
12F	-	DENSITY WIDE RANGE	-5 to +215F	0.5F	425	TOTAL	59/012/1
13C	47C	LOSS ON HEAT	+155 to +170C	0.5C	160	TOTAL	58/047/2
14C	17C	WAX MELTING POINT	+38 to +82C	0.1C	380	79	58/017/2
14F	-	WAX MELTING POINT	+100 to +180F	0.2F	380	79	59/014/1
15C	60C	LOW SOFTENING POINT	-2 to +80C	0.2C	400	TOTAL	58/060/2
15F	-	LOW SOFTENING POINT	+30 to +180F	0.5F	400	TOTAL	59/015/1
16C	61C	HIGH SOFTENING POINT	+30 to +200C	0.5C	400	TOTAL	58/061/2
16F	-	HIGH SOFTENING POINT	+85 to +392F	1.0F	400	TOTAL	59/016/1
17C	-	SAYBOLT VISCOSITY	+19 to +27C	0.1C	280	TOTAL	59/017/2
17F	-	SAYBOLT VISCOSITY	+66 to +80F	0.2F	280	TOTAL	59/017/1
18C	23C	REID VAPOUR PRESSURE	+34 to +42C	0.1C	280	TOTAL	58/023/2
18F	-	REID VAPOUR PRESSURE	+94 to +108F	0.2F	280	TOTAL	59/018/1
19C	-	SAYBOLT VISCOSITY	+49 to +57C	0.1C	280	TOTAL	59/019/2
19F	-	SAYBOLT VISCOSITY	+120 to +134F	0.2F	280	TOTAL	59/019/1
20C	-	SAYBOLT VISCOSITY	+57 to +65C	0.1C	280	TOTAL	59/020/2
20F	-	SAYBOLT VISCOSITY	+134 to +148F	0.2F	280	TOTAL	59/020/1
21C	-	SAYBOLT VISCOSITY	+79 to +87C	0.1C	280	TOTAL	59/021/2
21F	-	SAYBOLT VISCOSITY	+174 to +188F	0.2F	280	TOTAL	59/021/1
22C	24C	OXIDATION STABILITY	+95 to +103C	0.1C	280	TOTAL	58/024/2
22F	-	OXIDATION STABILITY	+204 to +218F	0.2F	280	TOTAL	59/022/1
23C	-	ENGLER VISCOSITY	+18 to +28C	0.2C	217	90	59/023/2
24C	-	ENGLER VISCOSITY	+39 to +54C	0.2C	242	90	59/024/2
25C	-	ENGLER VISCOSITY	+95 to +105C	0.2C	217	90	59/025/2
26C	-	NITROCELLULOSE STABILITY	+130 to +140C	0.1C	468	TOTAL	59/026/2
27C	-	TURPENTINE DISTILLATION	+147 to +182C	0.5C	306	76	59/027/2
28C	31C	KINEMATIC VISCOSITY	+36.6 to +39.4C	0.05C	310	TOTAL	58/031/2

ASTM No	IP Equiv	Name	Range	Sub Div	Max Length mm	Immersion Length mm	Product No
28F	-	KINEMATIC VISCOSITY	+97.5 to +102.5F	0.1F	310	TOTAL	59/028/1
29C	34C	KINEMATIC VISCOSITY	+52.6 to +55.4C	0.05C	310	TOTAL	58/034/2
29F	-	KINEMATIC VISCOSITY	+127.5 to +132.5F	0.1F	310	TOTAL	59/029/1
30F	-	KINEMATIC VISCOSITY	+207.5 to +212.5F	0.1F	310	TOTAL	59/030/1
33C	20C	LOW ANILINE POINT	-38 to +42C	0.2C	425	50	58/020/2
33F	-	LOW ANILINE POINT	-36.5 to +107.5F	0.5F	425	50	59/033/1
34C	21C	MEDIUM ANILINE POINT	+25 to +105C	0.2C	425	50	58/021/2
34F	-	MEDIUM ANILINE POINT	+77 to +221F	0.5F	425	50	59/034/1
35C	59C	HIGH ANILINE POINT	+90 to +170C	0.2C	425	50	58/059/2
35F	-	HIGH ANILINE POINT	+194 to +338F	0.5F	425	50	59/035/1
36C	-	TITER TEST	-2 to +68C	0.2C	410	45	59/036/2
37C	77C	SOLVENTS DISTILLATION	-2 to +52C	0.2C	400	100	58/077/2
38C	78C	SOLVENTS DISTILLATION	+24 to +78C	0.2C	400	100	58/078/2
39C	79C	SOLVENTS DISTILLATION	+48 to +102C	0.2C	400	100	58/079/2
40C	80C	SOLVENTS DISTILLATION	+72 to +126C	0.2C	400	100	58/080/2
41C	81C	SOLVENTS DISTILLATION	+98 to +152C	0.2C	400	100	58/081/2
42C	82C	SOLVENTS DISTILLATION	+95 to +255C	0.5C	400	100	58/082/2
43C	65C	KINEMATIC VISCOSITY	-51.6 to -34C	0.1C	425	TOTAL	58/065/2
43F	-	KINEMATIC VISCOSITY	-61 to -29F	0.2F	425	TOTAL	59/043/1
44C	29C	KINEMATIC VISCOSITY	+18.6 to +21.4C	0.05C	310	TOTAL	58/029/2
44F	-	KINEMATIC VISCOSITY	+66.5 to +71.5F	0.1F	310	TOTAL	59/044/1
45C	30C	KINEMATIC VISCOSITY	+23.6 to +26.4C	0.05C	310	TOTAL	58/030/2
45F	-	KINEMATIC VISCOSITY	+74.5 to +79.5F	0.1F	310	TOTAL	59/045/1
46C	66C	KINEMATIC VISCOSITY	+48.6 to +51.4C	0.05C	310	TOTAL	58/066/2
46F	-	KINEMATIC VISCOSITY	+119.5 to +124.5F	0.1F	310	TOTAL	59/046/1
47C	35C	KINEMATIC VISCOSITY	+58.6 to +61.4C	0.05C	310	TOTAL	58/035/2
47F	-	KINEMATIC VISCOSITY	+137.5 to +142.5F	0.1F	310	TOTAL	59/047/1
48C	90C	KINEMATIC VISCOSITY	+80.6 to +83.4C	0.05C	310	TOTAL	58/090/2
48F	-	KINEMATIC VISCOSITY	+177.5 to +182.5F	0.1F	310	TOTAL	59/048/1
49C	-	STORMER VISCOSITY	+20 to +70C	0.2C	310	65	59/049/2
50F	-	GAS COLORIMETER INLET	+54 to +101F	0.1F	473	TOTAL	59/050/1
51F	-	GAS COLORIMETER OUTLET	+69 to +116F	0.1F	473	TOTAL	59/051/1
52C	-	BUTADIENE BOILING POINT RANGE	-10 to +5C	0.1C	167	TOTAL	59/052/2
54C	18C	CONGEALING POINT	+20 to +100.6C	0.2C	315	TOTAL	58/018/2
54F	-	CONGEALING POINT	+68 to +213F	0.5F	315	TOTAL	59/054/1
56C	-	BOMB CALORIMETER	+19 to +35C	0.02C	600	TOTAL	59/056/2
56F	-	BOMB CALORIMETER	+66 to +95F	0.05F	600	TOTAL	59/056/1
57C	-	TAG CLOSED TESTER LOW RANGE	-20 to +50C	0.5C	292	57	59/057/2
57F	-	TAG CLOSED TESTER LOW RANGE	-4 to +122F	1.0F	292	57	59/057/1
58C	-	TANK	-34 to +49C	0.5C	305	TOTAL	59/058/2
58F	-	TANK	-30 to +120F	1.0F	305	TOTAL	59/058/1
59C	-	TANK	-18 to +82C	0.5C	305	TOTAL	59/059/2
59F	-	TANK	0 to +180F	1.0F	305	TOTAL	59/059/1
60C	-	TANK	+77 to +260C	1.0C	305	TOTAL	59/060/2
60F	-	TANK	+170 to +500F	2.0F	305	TOTAL	59/060/1
61C	63C	PETROLATUM MELTING POINT	+32 to +127C	0.2C	385	79	58/063/2
61F	-	PETROLATUM MELTING POINT	+90 to +260F	0.5F	385	79	59/061/1
62C	-	PRECISION	-38 to +2C	0.1C	384	TOTAL	59/062/2
62F	-	PRECISION	-36 to +35F	0.2F	384	TOTAL	59/062/1
63C	-	PRECISION	-8 to +32C	0.1C	384	TOTAL	59/063/2
63F	-	PRECISION	+18 to +89F	0.2F	384	TOTAL	59/063/1

ASTM No	IP Equiv	Name	Range	Sub Div	Max Length mm	Immersion Length mm	Product No
64C	-	PRECISION	+25 to +55C	0.1C	384	TOTAL	59/064/2
64F	-	PRECISION	+77 to +131F	0.2F	384	TOTAL	59/064/1
65C	-	PRECISION	+50 to +80C	0.1C	384	TOTAL	59/065/2
65F	-	PRECISION	+122 to +176F	0.2F	384	TOTAL	59/065/1
66C	-	PRECISION	+75 to +105C	0.1C	384	TOTAL	59/066/2
66F	-	PRECISION	+167 to +221F	0.2F	384	TOTAL	59/066/1
67C	-	PRECISION	+95 to +155C	0.2C	384	TOTAL	59/067/2
67F	-	PRECISION	+203 to +311F	0.5F	384	TOTAL	59/067/1
68C	-	PRECISION	+145 to +205C	0.2C	384	TOTAL	59/068/2
68F	-	PRECISION	+293 to +401F	0.5F	384	TOTAL	59/068/1
69C	-	PRECISION	+195 to +305C	0.5C	384	TOTAL	59/069/2
69F	-	PRECISION	+383 to +581F	1.0F	384	TOTAL	59/069/1
70C	-	PRECISION	+295 to +405C	0.5C	384	TOTAL	59/070/2
70F	-	PRECISION	+563 to +761F	1.0F	384	TOTAL	59/070/1
71C	72C	OIL IN WAX	-37 to +21C	0.5C	360	76	58/072/2
71F	-	OIL IN WAX	-35 to +70F	1.0F	360	76	59/071/1
72C	67C	KINEMATIC VISCOSITY	-19.4 to -16.6C	0.05C	310	TOTAL	58/067/2
72F	-	KINEMATIC VISCOSITY	-2.5 to +2.5F	0.1F	310	TOTAL	59/072/1
73C	68C	KINEMATIC VISCOSITY	-41.4 to -38.6C	0.05C	310	TOTAL	58/068/2
73F	-	KINEMATIC VISCOSITY	-42.5 to -37.5F	0.1F	310	TOTAL	59/073/1
74C	69C	KINEMATIC VISCOSITY	-55.4 to -52.6C	0.05C	310	TOTAL	58/069/2
74F	-	KINEMATIC VISCOSITY	-67.5 to -62.5F	0.1F	310	TOTAL	59/074/1
75F	-	COOLANT (ANTI-FREEZE) FREEZING POINT	-35 to +35F	0.5F	413	100	59/075/1
76F	-	COOLANT (ANTI-FREEZE) FREEZING POINT	-65 to +5F	0.5F	413	100	59/076/1
77F	-	SAYBOLT VISCOSITY	+245 to +265F	0.5F	280	TOTAL	59/077/1
78F	-	SAYBOLT VISCOSITY	+295 to +315F	0.5F	280	TOTAL	59/078/1
79F	-	SAYBOLT VISCOSITY	+345 to +365F	0.5F	280	TOTAL	59/079/1
80F	-	SAYBOLT VISCOSITY	+395 to +415F	0.5F	280	TOTAL	59/080/1
81F	-	SAYBOLT VISCOSITY	+445 to +465F	0.5F	280	TOTAL	59/081/1
82C	-	FUEL RATING, ENGINE	-15 to +105C	1.0C	165	30	59/082/2
82F	-	FUEL RATING, ENGINE	0 to +220F	2.0F	165	30	59/082/1
83C	-	FUEL RATING, AIR	+15 to +70C	1.0C	174	40	59/083/2
83F	-	FUEL RATING, AIR	+60 to +160F	1.0F	174	40	59/083/1
84C	-	FUEL RATING, ORIFICE TANK	+25 to +80C	1.0C	387	249	59/084/2
84F	-	FUEL RATING, ORIFICE TANK	+75 to +175F	1.0F	387	249	59/084/1
85C	-	FUEL RATING, SURGE	+40 to +150C	1.0C	314	181	59/085/2
85F	-	FUEL RATING, SURGE	+100 to +300F	2.0F	314	181	59/085/1
86C	-	FUEL RATING, MIX	+95 to +175C	1.0C	170	35	59/086/2
86F	-	FUEL RATING, MIX	+200 to +350F	2.0F	170	35	59/086/1
87C	-	FUEL RATING, COOLANT	+150 to +205C	1.0C	175	40	59/087/2
87F	-	FUEL RATING, COOLANT	+300 to +400F	1.0F	175	40	59/087/1
88C	-	VEGETABLE OIL FLASH	+10 to +200C	1.0C	292	57	59/088/2
88F	-	VEGETABLE OIL FLASH	+50 to +392F	2.0F	292	57	59/088/1
89C	-	SOLIDIFICATION POINT	-20 to +10C	0.1C	375	76	59/089/2
90C	-	SOLIDIFICATION POINT	0 to +30C	0.1C	375	76	59/090/2
91C	-	SOLIDIFICATION POINT	+20 to +50C	0.1C	375	76	59/091/2
92C	-	SOLIDIFICATION POINT	+40 to +70C	0.1C	375	76	59/092/2
93C	-	SOLIDIFICATION POINT	+60 to +90C	0.1C	375	76	59/093/2
94C	-	SOLIDIFICATION POINT	+80 to +110C	0.1C	375	76	59/094/2
95C	-	SOLIDIFICATION POINT	+100 to +130C	0.1C	375	76	59/095/2
96C	-	SOLIDIFICATION POINT	+120 to +150C	0.1C	375	76	59/096/2
97C	-	TANK	-18 to +49C	0.5C	305	TOTAL	59/097/2
97F	-	TANK	0 to +120F	1.0F	305	TOTAL	59/097/1
98C	-	TANK	+16 to +82C	0.5C	305	TOTAL	59/098/2

ASTM No	IP Equiv	Name	Range	Sub Div	Max Length mm	Immersion Length mm	Product No
98F	-	TANK	+60 to +180F	1.0F	305	TOTAL	59/098/1
99C	-	WEATHERING TEST	-50 to +5C	0.2C	305	35	59/099/2
99F	-	WEATHERING TEST	-58 to +41F	0.5F	305	35	59/099/1
100C	-	SOLIDIFICATION POINT	+145 to +205C	0.2C	375	76	59/100/2
101C	-	SOLIDIFICATION POINT	+195 to +305C	0.5C	375	76	59/101/2
102C	83C	SOLVENTS DISTILLATION	+123 to +177C	0.2C	400	100	58/083/2
103C	84C	SOLVENTS DISTILLATION	+148 to +202C	0.2C	400	100	58/084/2
104C	85C	SOLVENTS DISTILLATION	+173 to +227C	0.2C	400	100	58/085/2
105C	86C	SOLVENTS DISTILLATION	+198 to +252C	0.2C	400	100	58/086/2
106C	87C	SOLVENTS DISTILLATION	+223 to +277C	0.2C	400	100	58/087/2
107C	88C	SOLVENTS DISTILLATION	+248 to +302C	0.2C	400	100	58/088/2
108F	-	SAYBOLT VISCOSITY	+270 to +290F	0.5F	280	TOTAL	59/108/1
109F	-	SAYBOLT VISCOSITY	+320 to +340F	0.5F	280	TOTAL	59/109/1
110C	93C	KINEMATIC VISCOSITY	+133.6 to +136.4C	0.05C	310	TOTAL	58/093/2
110F	-	KINEMATIC VISCOSITY	+272.5 to +277.5F	0.1F	310	TOTAL	59/110/1
111C	-	TAR ACID DISTILLATION	+170 to +250C	0.2C	400	100	59/111/2
112C	-	SOLIDIFICATION POINT OF BENZENE	+4 to +6C	0.02C	220	TOTAL	59/112/2
113C	89C	BITUMEN SOFTENING POINT WIDE RANGE	-1 to +175C	0.5C	410	TOTAL	58/089/2
113F	-	BITUMEN SOFTENING POINT WIDE RANGE	+30 to +350F	1.0F	410	TOTAL	59/113/1
114C	14C	AVIATION FUEL FREEZING POINT	-80 to +20C	0.5C	305	TOTAL	58/014/2
115C	-	ENCLOSED SCALE BECKMAN TYPE	5 OR 6C	0.01C	640	-	59/115/2
116C	-	BOMB CALORIMETER	+189 to +25.1C	0.01C	614	TOTAL	59/116/2
117C	-	BOMB CALORIMETER	+23.9 to +30.1C	0.01C	614	TOTAL	59/117/2
118C	-	KINEMATIC VISCOSITY	+28.6 to +31.4C	0.05C	310	TOTAL	59/118/2
118F	-	KINEMATIC VISCOSITY	+83.5 to +88.5F	0.1F	310	TOTAL	59/118/1
119C	-	COOLANT (ANTI-FREEZE) FREEZING POINT	-38.3 to -30C	0.1C	425	100	59/119/2
119F	-	COOLANT (ANTI-FREEZE) FREEZING POINT	-37 to -22F	0.2F	425	100	59/119/1
120C	92C	KINEMATIC VISCOSITY	38.6 to +41.4C	0.05C	310	TOTAL	58/092/2
121C	32C	KINEMATIC VISCOSITY	+98.6 to +101.4C	0.05C	310	TOTAL	58/032/2
122C	94C	BROOKFIELD VISCOSITY	-45 to -35C	0.1C	305	TOTAL	58/094/2
123C	95C	BROOKFIELD VISCOSITY	-35 to -25C	0.1C	305	TOTAL	58/095/2
124C	96C	BROOKFIELD VISCOSITY	-25 to -15C	0.1C	305	TOTAL	58/096/2
125C	97C	BROOKFIELD VISCOSITY	-15 to -5C	0.1C	305	TOTAL	58/097/2
126C	71C	KINEMATIC VISCOSITY	-27.4 to -24.6C	0.05C	310	TOTAL	58/071/2
126F	-	KINEMATIC VISCOSITY	-17.5 to -12.5F	0.1F	310	TOTAL	59/126/1
127C	99C	KINEMATIC VISCOSITY	-21.4 to -18.6C	0.05C	310	TOTAL	58/099/2
128C	33C	KINEMATIC VISCOSITY	-1.4 to +1.4C	0.05C	310	TOTAL	58/033/2
128F	-	KINEMATIC VISCOSITY	+29.5 to +34.5F	0.1F	310	TOTAL	59/128/1
129C	36C	KINEMATIC VISCOSITY	+91.6 to +94.4C	0.05C	310	TOTAL	58/036/2
129F	-	KINEMATIC VISCOSITY	+197.5 to +202.5F	0.1F	310	TOTAL	59/129/1
130C	-	TANK	-7 to +105C	0.5C	305	TOTAL	59/130/2
130F	-	TANK	+20 to +220F	1.0F	305	TOTAL	59/130/1
132C	102C	KINEMATIC VISCOSITY	+148.6 to +151.4C	0.05C	310	TOTAL	58/102/2
133C	-	PRECISION	-38 to +2C	0.1C	384	76MM	59/133/2

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

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



Length mm	Product No
<b>Brass Slot Front Cases</b>	
155	47/732/0
305	47/432/0
355	47/832/0
405	47/932/0
<b>Brass Sampling Cup Case</b>	
305	47/436/0
<b>Stainless Slot Front Cases</b>	
305	47/434/0
405	47/934/0
<b>Stainless Sampling Cup Case</b>	
305	47/435/0





**Brannan**



# Hydrometers

General Purpose and Specification Hydrometers

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 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.



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.

Two of the 'series' of hydrometers are listed below and a further series is on the next page with some wider range types.

**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°

Range °SG	To suit Surface Tension	Product No	
		Series S50	Series M50
0.60 to 0.65	Low	10/899/0	10/960/0
0.65 to 0.70		10/900/0	10/961/0
0.70 to 0.75		10/901/0	10/962/0
0.75 to 0.80		10/902/0	10/963/0
0.80 to 0.85		10/903/0	10/964/0
0.85 to 0.90		10/904/0	10/921/0
0.90 to 0.95		10/905/0	10/922/0
0.95 to 1.00		10/906/0	10/923/0
1.00 to 1.05	Medium	10/907/0	10/924/0
1.05 to 1.10		10/908/0	10/925/0
1.10 to 1.15		10/909/0	10/926/0
1.15 to 1.20		10/910/0	10/927/0
1.20 to 1.25		10/911/0	10/928/0
1.25 to 1.30		10/912/0	10/929/0
1.30 to 1.35		10/913/0	10/930/0
1.35 to 1.40		10/914/0	10/931/0
1.40 to 1.45		10/915/0	10/932/0
1.45 to 1.50		10/916/0	10/970/0
1.50 to 1.55		10/917/0	10/971/0
1.55 to 1.60		10/918/0	10/972/0
1.60 to 1.65		10/919/0	10/973/0
1.65 to 1.70		10/990/0	10/974/0
1.70 to 1.75		10/991/0	10/975/0
1.75 to 1.80		10/992/0	10/976/0
1.80 to 1.85		10/993/0	10/977/0
1.85 to 1.90		10/994/0	10/978/0
1.90 to 1.95	10/995/0	10/979/0	
1.95 to 2.00	10/996/0	10/980/0	



The hydrometers on this page are all adjusted at 60°F (15.6°C)



### Series M100

250mm long, cover a span of 0.100°, divided 0.002°.

Range °SG	To suit Surface Tension	Product No
0.60 to 0.70	Low	10/940/0
0.70 to 0.80		10/941/0
0.80 to 0.90		10/942/0
0.90 to 1.00		10/943/0
1.00 to 1.10	Medium	10/944/0
1.10 to 1.20		10/945/0
1.20 to 1.30		10/946/0
1.30 to 1.40		10/947/0
1.40 to 1.50		10/948/0
1.50 to 1.60		10/949/0
1.60 to 1.70		10/950/0
1.70 to 1.80		10/951/0
1.80 to 1.90		10/952/0
1.90 to 2.00		10/953/0

### 200 Series

250mm long, cover a span of 0.200°, divided 0.002°.

Range °SG	To suit Surface Tension	Product No
0.60 to 0.80	Low	10/500/0
0.80 to 1.00		10/501/0
1.00 to 1.20	Medium	10/502/0
1.20 to 1.40		10/503/0
1.40 to 1.60		10/504/0
1.60 to 1.80		10/505/0
1.80 to 2.00		10/506/0

### Range Finder Hydrometers

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

Length mm	Range °SG	Division	Product No
320	0.70 to 1.00	0.005	10/530/0
250	1.00 to 1.50	0.005	10/531/0
250	1.50 to 2.00	0.005	10/532/0
320	0.70 to 2.00	0.010	10/550/0
320	1.00 to 2.00	0.010	10/551/0

## Twaddle Hydrometers

The Twaddle scale is a simplified scale based on specific gravity where 0° Twaddle equates to SG60/60°F of 1.00 (that of water) and each degree Twaddle equals 0.005°SG.

These hydrometers are available in 2 lengths each with single degree divisions and are adjusted for use at 15.6°C (60°F) for medium surface tension liquids.

Twaddle Number	Range	Division	Product No	
			160mm	300mm
1	0 to 24	1	10/101/0	10/151/0
2	24 to 48	1	10/102/0	10/152/0
3	48 to 74	1	10/103/0	10/153/0
4	74 to 102	1	10/104/0	10/154/0
5	102 to 138	1	10/105/0	10/155/0
6	138 to 170	1	10/106/0	10/156/0

## Baumé Hydrometers

The Baumé hydrometers listed are for liquids heavier than water.

Zero degrees Baumé equates to an SG 60/60°F of 1.00.

This scale uses the accepted relationship for degrees Baumé

where

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

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

Range	Division	Product No
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



**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.

Hydrometer cylinders are listed on page 7.

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

**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	Division	Product No
1.00 to 1.04° SG	0.001	10/601/0
15 to 40° Quevenne	1.0	10/660/0

**Latexometers**

These instruments are calibrated in grams of dry rubber per litre of latex and adjusted at 28.9°C (84°F) and are 250mm long.

Range g/l	Division	Product No
50 to 450	10.0	10/611/0
50 to 250	10.0	10/612/0

**Brinometers**

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

Range % Brine	Division	Product No
0 to 100	1.0	10/621/0

**Urinometers**

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

Range °SG	Division	Product No
1.00 to 1.06	0.001	10/650/0

**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 No
Glass	1.08 to 1.3 x 0.005	10/722/0
Plastic	1.08 to 1.3 x 0.005	10/723/0

**Gay Lussac (Alcoholometer)**

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

Range % Alcohol	Division	Product No
0 to 100	1	10/670/0

Range	Division	Length mm	Product No
0 to 10	0.1	300	10/250/0
10 to 20	0.1	300	10/251/0
20 to 30	0.1	300	10/252/0
30 to 40	0.1	300	10/253/0
40 to 50	0.1	300	10/254/0
50 to 60	0.1	300	10/255/0
60 to 70	0.1	300	10/256/0
0 to 20	0.2	260	10/257/0
20 to 40	0.2	260	10/258/0
40 to 60	0.2	260	10/259/0
60 to 80	0.2	260	10/260/0

### Brix Hydrometers

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



Max Length mm	Range g/ml	Division	Product No
175	1.000 to 1.030	0.002	10/630/0
220	1.000 to 1.040	0.001	10/631/0
200	1.000 to 1.030	0.002	10/632/0
200	1.000 to 1.040	0.002	10/633/0
250	1.000 to 1.030	0.002	10/634/0
250	1.000 to 1.040	0.002	10/635/0
250	1.000 to 1.050	0.002	10/636/0

### Seawater Hydrometers

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

Range	Division	Hydrometer with Certificate	Hydrometer without Certificate
0.99 to 1.04	0.0005	10/750/0	10/751/0

### Draft Survey Hydrometer

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

Range °SG	Division	Product No
0.98 to 1.12	0.002	10/801/0

### Wine & Beer Hydrometer

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

Range °C & °F	Length mm	Product No
-5 - 105 C & F	205	21/594/3

### Wine & Beer Thermometer

Companion to the Hydrometer for home use. Red spirit filled tube with easy to read scale.

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. 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

**Series M50** 270mm long, divided in 0.001g/ml

**Series L50** 330mm long, divided in 0.0005g/ml

All three Series have range spans of 0.050g/ml.



Range g/ml	To suit Surface Tension	Product No		
		Series S50	Series M50	Series L50
0.60 to 0.65	Low	10/300/0	10/330/0	10/360/0
0.65 to 0.70		10/301/0	10/331/0	10/361/0
0.70 to 0.75		10/302/0	10/332/0	10/362/0
0.75 to 0.80		10/303/0	10/333/0	10/363/0
0.80 to 0.85		10/304/0	10/334/0	10/364/0
0.85 to 0.90		10/305/0	10/335/0	10/365/0
0.90 to 0.95		10/306/0	10/336/0	10/366/0
0.95 to 1.00		10/307/0	10/337/0	10/367/0
1.00 to 1.05	Medium	10/308/0	10/338/0	10/368/0
1.05 to 1.10		10/309/0	10/339/0	10/369/0
1.10 to 1.15		10/310/0	10/340/0	10/370/0
1.15 to 1.20		10/311/0	10/341/0	10/371/0
1.20 to 1.25		10/312/0	10/342/0	10/372/0
1.25 to 1.30		10/313/0	10/343/0	10/373/0
1.30 to 1.35		10/314/0	10/344/0	10/374/0
1.35 to 1.40		10/315/0	10/345/0	10/375/0
1.40 to 1.45		10/316/0	10/346/0	10/376/0
1.45 to 1.50		10/317/0	10/347/0	10/377/0
1.50 to 1.55		10/318/0	10/348/0	10/378/0
1.55 to 1.60		10/319/0	10/349/0	10/379/0
1.60 to 1.65		10/320/0	10/350/0	10/380/0
1.65 to 1.70		10/321/0	10/351/0	10/381/0
1.70 to 1.75		10/322/0	10/352/0	10/382/0
1.75 to 1.80		10/323/0	10/353/0	10/383/0
1.80 to 1.85		10/324/0	10/354/0	10/384/0
1.85 to 1.90	10/325/0	10/355/0	10/385/0	
1.90 to 1.95	10/326/0	10/356/0	10/386/0	
1.95 to 2.00	10/327/0	10/357/0	10/387/0	



Range g/ml	To suit Surface Tension	Product No
0.60 to 0.70	Low	10/400/0
0.70 to 0.80		10/401/0
0.80 to 0.90		10/402/0
0.90 to 1.00		10/403/0
1.00 to 1.10	Medium	10/404/0
1.10 to 1.20		10/405/0
1.20 to 1.30		10/406/0
1.30 to 1.40		10/407/0
1.40 to 1.50		10/408/0
1.50 to 1.60		10/409/0
1.60 to 1.70		10/410/0
1.70 to 1.80		10/411/0
1.80 to 1.90		10/412/0
1.90 to 2.00	10/413/0	

### 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	Product No
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	10/453/0
0.80 to 0.85	10/454/0
0.85 to 0.90	10/455/0
0.90 to 0.95	10/456/0
0.95 to 1.00	10/457/0
1.00 to 1.05	10/458/0
1.05 to 1.10	10/459/0

### Sub-series M50 SP

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 0.050g/ml with divisions to 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 **IP 160**.

Internal Depth mm	Suitable for Hydrometer Series	Product No
200	S50	10/000/0
300	M50 M100	10/000/1
330	L50	10/000/2

### Hydrometers Cylinders

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

Designation	Range	Div	Product No
A40C/Total	-0.5 to +40.5°C	0.1°C	51/061/0
B60C/Total	-21 to +61°C	0.2°C	51/066/0

### Thermometers for use with Hydrometers

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

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

**330mm Long Plain Hydrometers** adjusted at 60°F for Petroleum Products and other liquids of low surface tension.

ASTM No	API Range	Division	Product No
1H	-1 to 11	0.1°	09/001/0
2H	9 to 21	0.1°	09/002/0
3H	19 to 21	0.1°	09/003/0
4H	29 to 41	0.1°	09/004/0
5H	39 to 51	0.1°	09/005/0
6H	49 to 61	0.1°	09/006/0
7H	59 to 71	0.1°	09/007/0
8H	69 to 81	0.1°	09/008/0
9H	79 to 91	0.1°	09/009/0
10H	89 to 101	0.1°	09/010/0

ASTM No	Range °SG	Division	Product No
82H	0.650 to 0.700	0.0005°	09/082/0
83H	0.700 to 0.750	0.0005°	09/083/0
84H	0.750 to 0.800	0.0005°	09/084/0
85H	0.800 to 0.850	0.0005°	09/085/0
86H	0.850 to 0.900	0.0005°	09/086/0
87H	0.900 to 0.950	0.0005°	09/087/0
88H	0.950 to 1.000	0.0005°	09/088/0
89H	1.000 to 1.050	0.0005°	09/089/0
90H	1.050 to 1.100	0.0005°	09/090/0

**330mm Long Hydrometers** adjusted at 60°F for heavier liquids of medium surface tension.

ASTM No	Range °SG	Division	Product No
98H	0.950 to 1.000	0.0005°	09/098/0
111H	1.000 to 1.050	0.0005°	09/111/0
112H	1.050 to 1.100	0.0005°	09/112/0
113H	1.100 to 1.150	0.0005°	09/113/0
114H	1.150 to 1.200	0.0005°	09/114/0
115H	1.200 to 1.250	0.0005°	09/115/0
116H	1.250 to 1.300	0.0005°	09/116/0
117H	1.300 to 1.350	0.0005°	09/117/0
118H	1.350 to 1.400	0.0005°	09/118/0
119H	1.400 to 1.450	0.0005°	09/119/0
120H	1.450 to 1.500	0.0005°	09/120/0

**Soil Hydrometers** 280mm long for use in Soil Analysis. Adjusted at 68°F.

ASTM No	°Specific Gravity Range	Division	Product No
151H	0.995 to 1.038	0.001°	09/151/0
ASTM No	Grams/Litre Range	Division	Product No
152H	-5 to 60	1.0	09/152/0

A man in a dark suit and tie is seated at a white desk, focused on working with a circuit board. The desk is cluttered with various electronic components, wires, and tools. In the background, a bulletin board is covered with numerous papers and documents. The overall scene depicts a professional laboratory or workshop environment.

**Brannan**

# Calibration Services

UKAS Accredited Laboratory and Certificates of Calibration

To complement the production facilities of S. Brannan & Sons, a comprehensive calibration service is available for temperature instruments.



## UKAS Accredited Laboratory

Our facilities conform to (BS) EN ISO/IEC 17025:2005 - General requirements for the competence of testing and calibration laboratories.

For temperature measurement our laboratory can calibrate all types of liquid-in-glass thermometers, dial type temperature indicators and recorders and temperature sensors. Certification is available for test temperatures between  $-60^{\circ}\text{C}$  and  $+250^{\circ}\text{C}$ .



An efficient and competitive service is provided to examine and calibrate customers' instruments in addition to supplying new, calibrated thermometers.

Before calibration takes place, if requested, all instruments are examined in detail to confirm they are free from any defects and to ensure that they conform to the current revision of any relevant specification. Customers are advised of any non-conformities of instruments they have submitted, prior to calibration.

## Changes of Calibration and Re-certification

Secular changes can occur as the bulb glass stabilises, particularly over the first year or two after manufacture. These changes can be monitored by regular verification of the ice point only, thus avoiding the expense of a complete calibration certificate. BS 1041 Section 2.1 (Guide to selection and use of liquid-in-glass thermometers) recommends such checks should take place at least annually and that complete re-calibration should take place at intervals of not more than five years.

## Calibration Temperatures

Unless requested by a customer or required by a particular specification, calibration will take place at five evenly spaced temperatures covering a minimum of 80% of the instrument's scale and will generally include a zero point. Where an instrument is to be used at particular temperatures, these may be specified by the customer as test temperatures.

## Suitable Thermometers for Certification

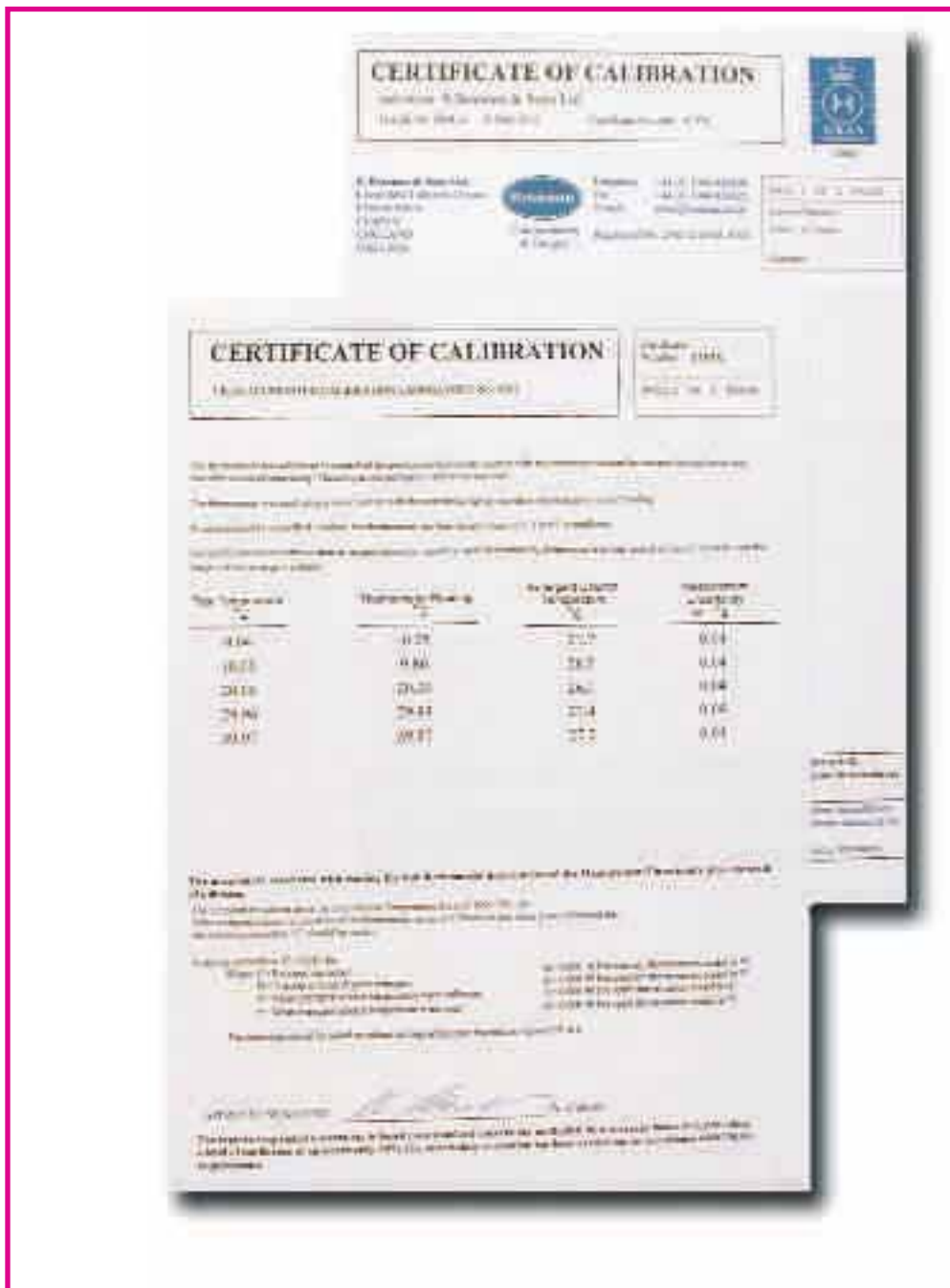
It is recommended that mercury thermometers for certification should be selected from instruments which conform to a recognised standard. These standards can also provide thermometers which are suitable for use as sets comprising a number of instruments which together cover a wide temperature band in subdivisions of 0.2°C or 0.01°C. Examples are BS 593 series 'A' or series 'B' or a selection from series 'F'; ASTM types 37C to 42C (equivalent to IP 77C to 82C) and ASTM 62C to 68C.



### Certificates of Calibration

Certificates are produced with reference to the International Temperature Scale of 1990 (ITS-90). Certificates are issued within the requirements of the United Kingdom Accreditation Service and provide traceability to recognised national standards. Certificates record the test temperature, the reading on the instrument subject to test, the emergent column temperature during calibration (for partial immersion thermometers) and the uncertainty of the test.

Our prices are competitive and quantity discounts apply. Please contact us for further details.





# Personalised Products

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Many of our products can be used to help promote your business. Here are just a few examples of the products which can feature your logo or other design. We have facilities for screen and pad printing in one, two and four colour. Packaging can also be arranged to your own design. Please contact us to discuss your ideas.

**Electronic Max Min Indoor Outdoor Thermometer**



**Vertical Fridge or Freezer Thermometer**



**Horizontal Fridge or Freezer Thermometer**



**240mm Plastic Wall Thermometer**



**Direct Reading Rain Gauge**



**Twin Mini Dial thermometer & Hygrometer**



Personalised Products

Brannan Thermometers & Instrumentation







**Brannan**

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Ref.No	Des
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48/436/0	460mm To
48/454/0	355mm 76mm
48/455/0	355mm 76mm
48/456/0	460mm 76mm
50/121/0	BS 1704 A Total Imm
50/122/0	BS 1704 B Total Imm
50/123/0	BS 1704 C Total Imm
50/124/0	BS 1704 D Total Imm
50/125/0	BS 1704 E Total Imm
50/126/0	BS 1704 F Total Imm
50/127/0	BS 1704 G Total Imm
50/128/0	BS 1704 H Total Imm
50/129/0	BS 1704 J Total Imm
50/130/0	BS 1704 K Total Imm
50/131/0	BS 1704 P Total Imm
50/132/0	BS 1704 R Total Imm
50/133/0	BS 1704 S Total Imm
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