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# 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 The instruments listed are similar to hydrometers included in ISO 650 and in the (now superseded) 1960 issue of British Standard 718.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





**Milk Hydrometers 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
240	No 1	1.025 to 1.035	0.0002	10/602/0
240	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 Milk Hydrometer**

160mm long. Scale calibrated in specific gravity and adjusted at 15.6°C (60°F).

Range °SG	Division	Product No
1.00 to 1.04	0.0001	10/601/0

**Milk Hydrometer in Degrees Quevenne**

1°Quevenne equals 0.001°SG. This hydrometer is 250mm long and adjusted at 15.6°C (60°F).

Range °Quevenne	Division	Product No
15 to 40	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

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.

Range	Division	Product No
0.99 to 1.04	0.0005	10/750/0

### Draft Survey Hydrometer

320mm long and adjusted at 15°C. Supplied complete with certificate. Measuring the apparent density in kg/litres, they are used for ship draft survey calculations.

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

### Gay Lussac (Alcoholometer)

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

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

### 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.

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 in a laboratory or office setting. He is focused on working with electronic equipment, including a breadboard with various components and wires. On the desk, there is also a digital multimeter and other electronic components. In the background, a corkboard is covered with various papers and documents. The overall scene depicts a professional working in a technical 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.



0582

## 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°C and +250°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.

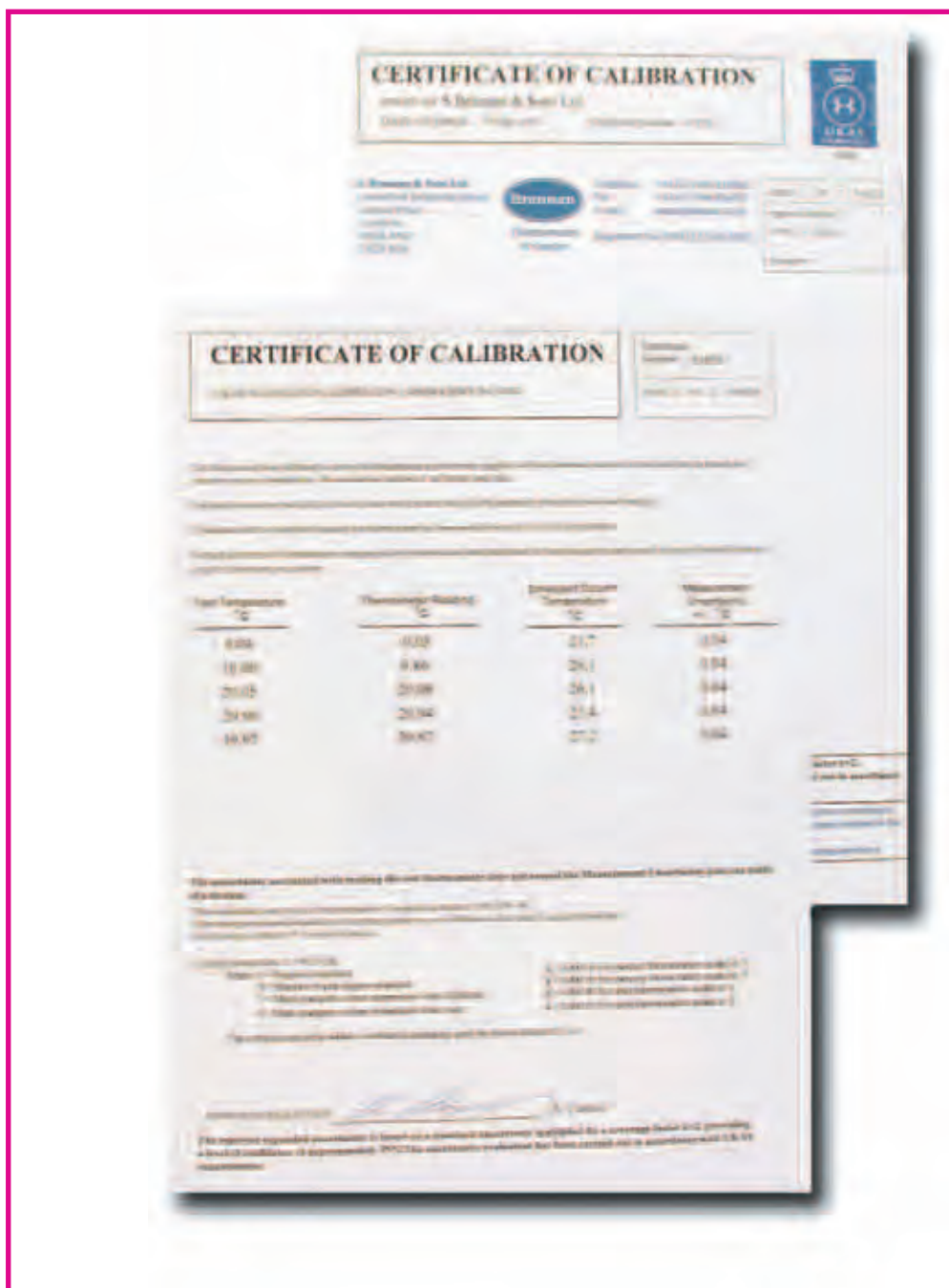




### Certificates of Calibration

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

Own Label Logos

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**



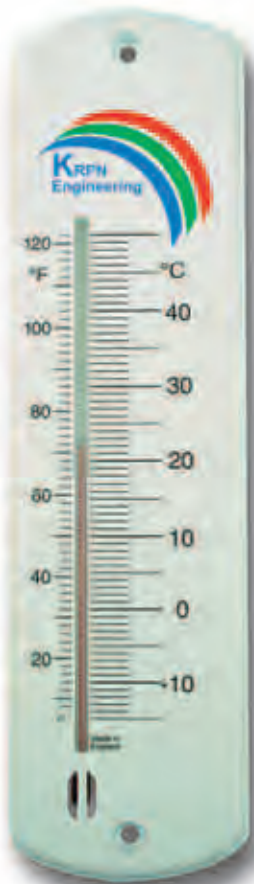
**Vertical Fridge or Freezer Thermometer**



**Horizontal Fridge or Freezer Thermometer**



**240mm Plastic Wall Thermometer**



**Direct Reading Rain Gauge**



**Twin Mini Dial thermometer & Hygrometer**







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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
50/134/0	BS 1704 T Total Imm
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