

# Surface Temperature Thermometers



A range of surface mounting bimetallic thermometers suitable for testing, balancing and fault-finding on heating systems. They can be attached to a surface by an adjustable spring (Model BL301) or magnet (Model BL302) to give an immediate indication of temperature without drilling or cutting.

This range of surface temperature indicators are suitable for use on pipelines, flat surfaces such as radiators, platens or hot-plates.

Excellent thermal conductivity is provided by the aluminium housing to the bimetallic element, while the stainless steel case and bezel minimises dissipation of heat to the atmosphere. A strong permanent magnet enables this compact thermometer to be easily attached to horizontal or vertical surfaces.

## BL3-01 Surface Temperature Thermometer

Attaches to pipes by means of a spring and rotating hook. Without the spring, the instrument can be used on horizontal surfaces.

### SPECIFICATION

**Case** Stainless steel, 65mm diameter x 13 mm depth with aluminium element housing 20mm x 7mm and rotating hook to accept fixings springs  
**Dial** 63 mm dial, clearly marked to BS3693  
**Accuracy** +/- 2% of full scale deflection  
**Temperature Ranges** See table

## BL3-02 Magnetic Fixing Thermometer

A strong permanent magnet enables this compact thermometer to be easily attached to horizontal or vertical surfaces.

### SPECIFICATION

**Case** Stainless steel, 65mm diameter x 13 mm depth with aluminium housing. Magnet extends 7 mm behind the case.  
**Dial** 63 mm dial, clearly marked to BS3693  
**Accuracy** +/- 2% of full scale deflection  
**Temperature Ranges** See table

# Portable Bimetallic Thermometers



- All Stainless Steel Construction
- Blunt or Spearpoint Stems
- 24mm, 45mm, 50mm or 100 mm dial sizes

A range of bimetallic thermometers suitable for many applications, manufactured in stainless steel cases and stems.

Stems are completely sealed and can be directly inserted into most chemicals and foodstuffs without danger of contamination.

Perspex window can be supplied in place of standard glass if required.

## BP1 Pocket - 24mm dial

The miniature, go-anywhere instruments with pocket clip

### SPECIFICATION

**Case** Stainless steel, 24mm diameter clearly marked to BS3693. Perspex window for temperature ranges up to 160°C, glass for higher ranges  
**Fitting** OBA mounting boss  
**Stem** 4mm dia., stainless steel to BS970:316S16. Standard length 90mm with blunt or spearpoint end. Alternative lengths 40 - 200mm in increments of 10mm.  
**Accuracy** +/- 1% of full scale deflection  
**Temperature Ranges** See table

## BP3 Portable - 50mm dial

Tough spearpoint stem will penetrate raw or cooked food, soil, tar etc...

### SPECIFICATION

**Case** Stainless steel, 54mm diameter clearly marked to BS3693.  
**Stem** 8mm dia., stainless steel to BS970:316S16 stepped to 5mm. with rugged spearpoint.  
**Sheath** Supplied complete with sheath  
**Accuracy** +/- 1% of full scale deflection  
**Temperature Ranges** See table

## BP2 Laboratory - 45mm dial

Accurate laboratory instruments with easy to read dial. Integral OBA boss enables instruments to be fitted to equipment if required.

### SPECIFICATION

**Case** Stainless steel, 45mm diameter clearly marked to BS3693.  
**Fitting** OBA mounting boss  
**Stem** 4mm dia., stainless steel to BS970:316S16. Standard length 200mm with blunt or spearpoint end. Alternative lengths 40 - 200mm in increments of 10mm.  
**Sheath** Spearpoint model supplied with sheath  
**Accuracy** +/- 1% of full scale deflection  
**Temperature Ranges** See table  
**Option** Zero adjust facility

## BP4 Heavy duty spearpoint

Tough and rugged with 100mm dial, this instruments is widely used in agriculture for checking the temperature of stored materials such as grain or silage and in the construction industry for tar temperatures.

### SPECIFICATION

**Case** Stainless steel, 122mm diameter clearly marked to BS3693. Fitted with robust handle and hook  
**Stem** Stainless steel to BS970:316S16, 12.7mm diameter with spear point  
 Standard length is 750mm Alternative lengths 300 to 1500 in increments of 100mm  
**Weight** 960g  
**Accuracy** +/- 1% of full scale deflection  
**Temperature Ranges** See table

# Surface Temperature Thermometers

## ORDERING CODES

### Surface Temperature Thermometer

63mm dial

BL3 01

**TEMPERATURE RANGE**  
From table

#### SPRING SIZE

No spring required  
Pipe diameter, mm

10 - 15  
15 - 25  
25 - 40  
40 - 50  
50 - 65  
65 - 75  
75 - 90  
90 - 100  
100 - 115  
115 - 150  
Other

0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11

### Magnetic Fixing Thermometer

63mm dial

BL3 02

**TEMPERATURE RANGE**  
From table

## TEMPERATURE RANGES

Celcius	Fahrenheit
-30 / +60	-20 / +140
10 / 120	50 / 250
100 / 300	0 / 300
0 / 400	

# Portable Bimetallic Thermometers

## ORDERING CODES

**Pocket** - 24mm dial, blunt stem  
**Pocket** - 24mm dial, spearpoint

BP1 01  
BP1 02

#### STEM LENGTH

in mm (90mm is standard)

**TEMPERATURE RANGE**  
From table

**Laboratory** - 45 mm dial blunt stem

**Laboratory** - 45 mm dial spearpoint

**Laboratory** - blunt stem, zero adjustment

**Laboratory** - spearpoint, zero adjustment

BP2 01  
BP2 02  
BP2 03  
BP2 04

#### STEM LENGTH

in mm (200mm is standard)

**TEMPERATURE RANGE**  
From table

**Portable** - 50mm dial, spearpoint

BP3 00

**TEMPERATURE RANGE** From table

**Heavy Duty** - 100mm dial, spearpoint

BP4 00

#### STEM LENGTH

in mm (750mm is standard)

**TEMPERATURE RANGE**  
From table

## TEMPERATURE RANGES

Celcius	Fahrenheit
-30 / +60	-20 / +140
10 / 120	20 / 220
0 / 160	100 / 400
50 / 250	150 / 500
0 / 300	*0 / 800
*0 / 400	

\*Model BP4-00 only

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BS EN  
ISO 9001  
Registration  
no: FM11958