

Heavy Duty Bimetal Thermometer



These heavy duty bimetal thermometers combine robust construction that makes the instrument suitable for most stringent environmental conditions, together with an accurately manufactured bimetallic coil, which ensures each instrument has a long dependable life.

Application

- Ovens, Dryers, Storage Tanks
- Food Processing, Dairies, Breweries.
- Pharmaceuticals and Petro-Chemical Industries, Refining.
- Sizes 100 & 160mm

Specifications

Types: Vertical, Coaxial & Flanged

Accuracy: +/-1%

Case & Bezel: 304 St. St Bayonet locking bezel
Weatherproof

Dial: White Aluminium with black markings

Window: Glass (standard)

Options: Toughened glass or acrylic

Stem: 316L St. St

Stem diameters: 6mm, 6.3mm, 8mm & 12.7mm

Standard Stem Lengths: 200mm, or 300mm. (other lengths available)

Recommended maximum stem lengths:

6mm & 6.3mm x 500mm

8mm x 1000mm

12.7mm x 1500mm

Immersion: Minimum immersion depends on temperature range. (See table)

Fitting: Plain stem for fitting with compression gland or flange

Options: Alternative stem diameters & lengths.

Maximum or minimum value, and index pointers available.

Electrical contacts available.

(100mm & 160mm diameters only)

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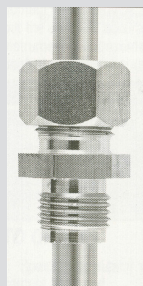
TEMPERATURE RANGES

RANGES			MINIMUM IMMERSION(mm)		
Single Scale		Dual	Stem Dia (mm)		
C	F	C & F	6.0 / 6.3	8	12.7
-30/+60	-20/+140	-30/+60 C & F	60	60	70
0/60	-	-	60	60	70
0/100	20/220	0/100 C & F	55	55	65
0/120	-	-	55	55	65
10/120	50/250	10/120 C & F	55	55	65
0/160	0/300	0/160 C & F	45	45	50
0/200	-	0/200 C & F	45	45	50
0/250	-	-	N/A	45	50
50/250	100/400	50/250 C & F	45	45	50
0/300	150/500	-	N/A	45	50
0/400	0/800	0/400 C & F	55	55	80
0/500	-	-	N/A	55	80
100/550	200/1050	100/550 C & F	55	55	80

Accessories

Compressions Glands

Compression glands tighten on stem to provide liquid and gas tight seal. Once fitted, the thermometer can only be altered by cutting off the olive and replacing it with a new one. Add 50mm for BSP threads (75mm for NPT threads) to desired immersion lengths to obtain total stem length.



Thermowells

Enable thermometers to be removed without draining system and provide protection at high pressures.

Thermowells are recommended to be fitted where the process line pressure may exceed 3.5bar.

Electrical Contact Heads

To provide alarm or control functions, 100 and 160mm dial instruments can be specified with electrical contact heads mounted in a clear macrolon window, which replaces the standard window. The set point can be adjusted to any position on the scale with a removable key. Single and dual contact systems are available. Electric contact heads provide a repeatable switching point, but the absolute accuracy tolerance of the instrument is approximately doubled by the contacts.

Specifications

Contact rating:

250V, switching capacity 10W, and 18VA.
Maximum current 0.7A

Service:

Indoor use, ambient temperature 10-70 °C,
free from vibration

Application:

100 and 160mm dial instruments with
12.7mm diameter stem