



## TEMPERATURE MEASUREMENT

### Thermometer - Process Industry Series

Type B4: All stainless steel construction

Data Sheet T BM-4

#### Service Intended

Suitable for media such as air, water, oil, gas, and chemicals that will not attack stainless steel 316. Typical applications will be in a general industrial heating, air-conditioning, food, petroleum, and chemical industry.

#### Case Details

Nominal Dia: 50, 63, 80, 100, 125 and 160mm  
Material: Stainless steel 304  
Adjustable set screw at the back of case for 80, 100, 125 and 160mm dia.

#### Bezel

Type R: S/Steel rolled ring type - tamper proof - for 50 and 63mm dia.  
Type T: S/Steel bayonet lock, twist type - removable - for 80, 100, 125 and 160mm dia.  
Material: Stainless steel 304

#### Stem Location

Bottom or rear mount, fixed or adjustable angle. With or without mounting flange. See "Mounting Configuration".  
(50mm rear mount only)

#### Stem Connection

To suit application. See "Standard stem and fitting sizes" table.  
Max stem pressure w/o thermowell 2500 kPa.  
Material: Stainless steel 316, exotic material on request.

#### Thermowell

Fabricated thermowell maximum pressure 16 MPa  
Optional: Solid machined thermowell maximum pressure 60 MPa.  
Material: Stainless steel 316, exotic material on request.

#### Window

Glass or plexiglass.

#### Dial

White aluminium. Black lettering. Adjustable with set screw at back of case for 80, 100 125 & 160mm dia.

#### Pointer

Black aluminium.

#### Sensing Element

Bimetal coil, direct drive.

#### Working Range

Maximum scale value.

#### Accuracy

Class 2 (2% of full scale value)

#### Weather Protection

IP 65 water and weather proof.

#### Liquid Filling

Glycerine or silicone filling of stem and case.  
Glycerine maximum 120°C  
Silicon maximum 250°C

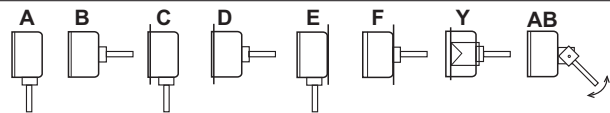
#### Optional Extras

Calibration Certificate  
Special Dials, other than standard  
Customer Logos  
Colour Coding  
Thermowell to suit stem



For dimensional drawing see technical section

#### MOUNTING CONFIGURATIONS



- A:** Bottom connection, no flange  
**B:** Rear connection, no flange  
**C:** Bottom connection, front flange  
**D:** Rear connection, front flange  
**E:** Bottom connection, rear flange  
**F:** Rear connection, rear flange  
**Y:** Rear con. narrow front ring (clamp mtg)  
**AB:** Rear connection. Every angle (adjustable)

#### STANDARD TEMPERATURE RANGES

Scale range °C	Figure interval	Minor graduations
-30...0...+50	20	2
-30...0...+70	20	2
-20...0...+100	20	2
0...60	10	1
0...100	20	1
0...120	20	1
0...160	20	2
0...200	50	5
0...300	50	5
0...400	100	10
0...500	100	10
0...600	100	10

#### STANDARD STEM AND FITTING SIZES

<b>Stem length including thread</b>	65, 100, 150, 200, 250, 300mm standard. 400, 500mm and non-standard sizes available on request.
<b>Stem diameter</b>	6mm dia standard. 8, 10 & 12mm on request.
<b>Standard connection</b>	1/2" BSP or NPT male
<b>Optional thread sizes</b>	1/4", 3/8", 1/2", and 3/4" in BSP or NPT
<b>Optional conn types</b>	Plain stem (no thread) Sliding compression fittings (to adjust length of insertion) Male or female swivel nut with weld-on collar Hygienic flange mounting for the food and beverage industry