



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

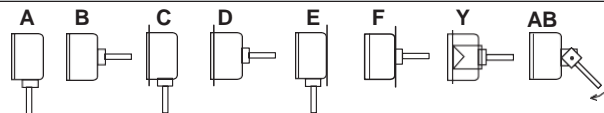
Colour Coding

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

Stem length including thread	65, 100, 150, 200, 250, 300mm standard. 400, 500mm and non-standard sizes available on request.
Stem diameter	6mm dia standard. 8, 10 & 12mm on request.
Standard connection	1/2" BSP or NPT male
Optional thread sizes	1/4", 3/8", 1/2", and 3/4" in BSP or NPT
Optional conn types	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