

PROCESS TEMPERATURE GAUGES

BI-METAL TYPE



MAIN FEATURES

All SS wetted parts system
Class 1 Accuracy
Dry / liquid filled

SUGGESTED APPLICATIONS

Liquid & gaseous mediums
Corrosive environments
Oil & Gas applications
Chemical & Petrochemical
Food & Beverages
Nuclear power plants

TEMPERATURE EFFECT

When temperature of the measuring system deviates from reference temperature (+20°C) : max error $\pm 0.4\%$ / 10K of true scale value.



**BI-METAL
PROCESS TEMPERATURE GAUGES**

BASIC DESCRIPTION

Sensing element : Helically coiled bimetal strip
Accuracy: $\pm 1.0\%$ F.S.D.
Ambient temperature: -20...+60°C
Over range limits: 110% of full scale
Weld joints: TIG argon arc welding

PRODUCT SPECIFICATION

STANDARD VERSION [CODE : BMTG]

Dial size : 63mm / 100mm / 125mm / 150 mm
Range : -50...0...+600°C
Mounting pattern : Direct Bottom Entry / Centre Back Entry
Process connection : $\frac{1}{2}$ " NPT (M) / $\frac{1}{2}$ " BSP (M)
Process Connection type: Fixed
Ingress protection : IP 65
Execution : Dry but fill-able
Case & Ring : AISI 304 SS (Bayonet type)
Connection & Shank : AISI 316 SS (Stem welded directly to case)
Dial : Aluminum, black graduation on white background
Pointer : Slotted adjustable, aluminum, black powder coated
Gaskets: Neoprene
Window : Shatterproof safety glass

PRODUCT SPECIFICATION

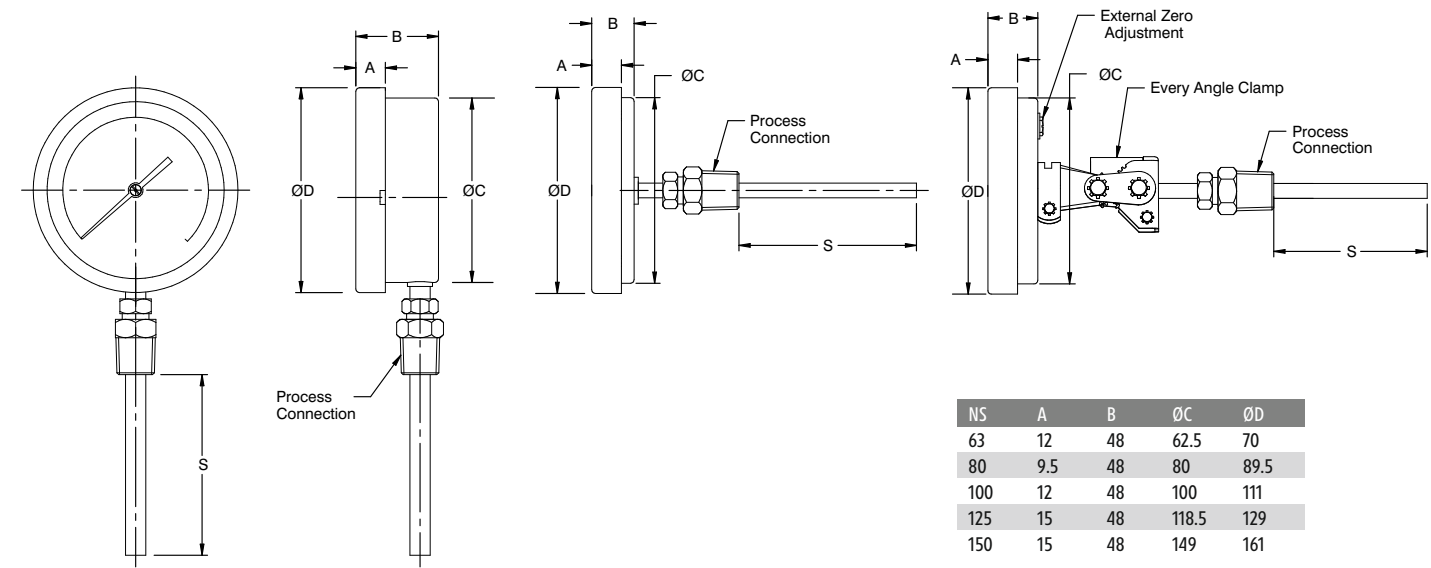
EXTERNAL ZERO ADJUSTMENT VERSION [CODE : BMTG-EZ]

Dial size : 80mm / 100mm / 125mm / 150 mm
Range : -50...0...+600°C
Mounting pattern : Every Angle Centre Back Entry
Process connection : $\frac{1}{2}$ " NPT (M) / $\frac{1}{2}$ " BSP (M)
Process Connection type: Adjustable
Ingress protection : IP 65
Execution : Dry but fill-able
Case & Ring : AISI 304 SS (Bayonet type)
Connection & Shank : AISI 316 SS (Stem welded directly to case)
Dial : Aluminum, black graduation on white background
Pointer : Micro-zero adjustable, aluminum, black powder coated
External Zero Adjustment: Provided at back of the case
Gaskets: Neoprene
Window : Shatterproof safety glass

LIQUID FILLED VERSION (SILICON OIL [CODE : S])

Ambient temperature: -40...+65°C
Dampening liquid : Silicon oil

DIMENSIONAL DRAWINGS



All dimensions are in mm.

Rev 00

MODEL CODING

MODEL	-	DIAL SIZE	MOUNTING	CONNECTION	CONNECTION TYPE	CASE EXECUTION	/	RANGE	/
BMTG = Bi-metal, Case SS 304, Stem SS 316 BMTG = Bi-metal, Case SS 316, Stem SS 316		25 = 63 mm 03 = 80 mm 04 = 100 mm 45 = 115 mm 05 = 125 mm 06 = 150 mm	B = Direct Bottom C = Centre Back E = Every Angle	M2N = ¼" NPT (M) M2B = ¼" BSP (M) M4N = ½" NPT (M) MBN = ½" BSP (M) M2M = M12 X 1.0P M4M = M20 X 1.5P M3B = ¾" BSP (M)	F = Fixed A = Adjustable W = Swivel	D = Dry but fill-able G = Glycerin filled S = Silicon oil filled Y = Dry		-50...0...+500°C or -58...32...+932°F or Other ranges on request	

STEM DIAMETER	STEM LENGTH	/	OTHER OPTIONS
S6 = Ø6.0 mm / Ø6.35 mm S8 = Ø8.0 mm S9 = Ø9.5 mm / Ø10.0 mm S7 = Ø12.0 mm	40mm up to 750 mm Other length on request		TS4 = SS 304 tag plate CD = Custom designed dial 2P = 2" Stanchion with bottom mounting BF = Back flange with bottom mounting FF = Front flange with back mounting PS = Certificate for Oxygen service CCN = Calibration certificate with NABL traceability CC= 3-point factory calibration certificate MTC = Material test certificate, 3.1 MTC2 = Material test certificate, 2.2 UC = Panel mount with U-clamp back mounting TD = Tag marking on dial EZ = External Zero adjustment

ORDERING EXAMPLE BMTG-150-B-M4B-A-Y-S04-S16-S6/RANGE/C1.CC.

QUICK ORDER DETAILS / FEEDBACKS