

# 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

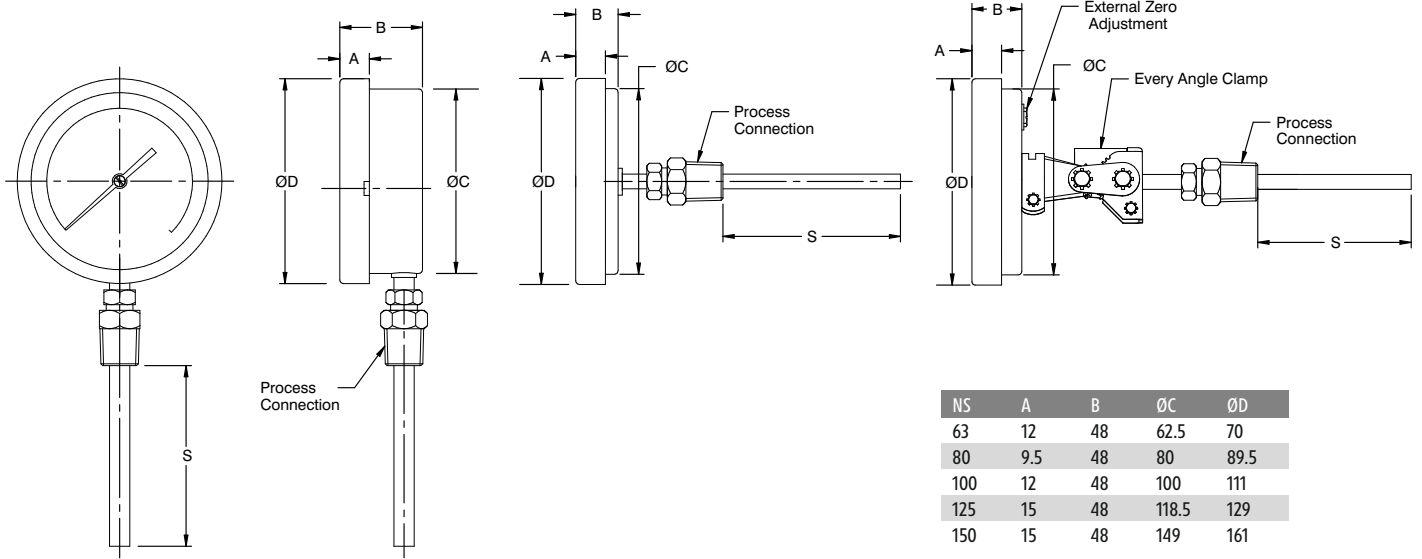
#### EXTERNAL ZERO ADJUSTMENT VERSION [CODE : BMTG-EZ]

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.

## 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		63 = 63 mm 80 = 80 mm 100 = 100 mm 115 = 115 mm 125 = 125 mm 150 = 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

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