

BIMETAL THERMOMETER WITH EVERY ANGLE CLAMP

TGI50-2

APPLICATIONS

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

FEATURES

- All stainless steel welded construction
- Follows EN 13190 / ASME B40.200
- Accuracy as per Class 1
- Dry / Fillable / Liquid filled
- External Zero Adjustment
- Every Angle Clamp



BIMETAL THERMOMETER WITH EVERY ANGLE CLAMP, TGI50-2

DESCRIPTION

General

Design : EN 13190

Accuracy : $\pm 1.0\%$ of full scale

Ambient temperature : -20...+60°C

Over range limits : 110% full scale

Stem pressure rating : 25 bar (Without thermowell)

Weld joints : TIG argon arc welding

Material of construction

Sensing element : Coiled bimetal strip

Case & Ring material : AISI 304 SS

Stem material : AISI 316 SS

Process connection material : AISI 316 SS

Dial : Aluminum, black graduation on white background

Pointer : Zero adjustable, aluminum, black powder coated

Gaskets : Neoprene / NBR

Window : Sheet glass

Temperature effect

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

Standard version

Dial size : 80 mm / 100 mm / 150 mm

Range : -50 up to 600°C

Mounting pattern : Center Back with Every Angle Clamp

Stem size : 6.0 mm / 8.0 mm / 9.5 mm / 12 mm

Ingress protection : IP 65

Stem length : 150 mm standard up to 1000 mm

Process connection type : Adjustable connection

Process connection : $\frac{1}{2}$ " NPT (M) / $\frac{1}{2}$ " BSP (M)

Filled versions

Glycerin

Window : Shatterproof safety glass

Dampening liquid : Glycerin 99.7% / 80% / 60%
[Max temperature range limit 100°C]

Silicon Oil

Window : Shatterproof safety glass

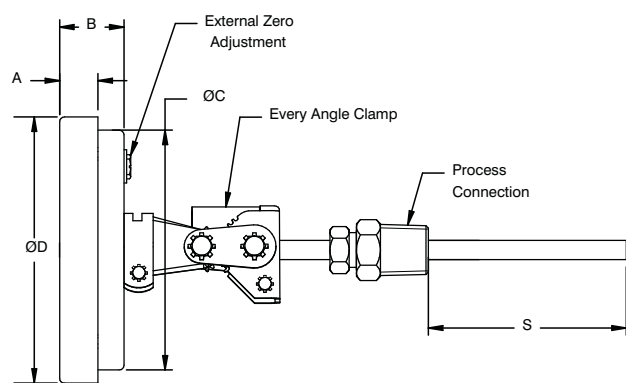
Gasket, Blow off disc & filling plug : NBR / Viton

Dampening liquid : Silicon oil DC 200
[Max temperature range limit 200°C]

BIMETAL TEMPERATURE GAUGE WITH EVERY ANGLE CLAMP

TGI50-2

DIMENSIONAL DRAWING



NS	A	B	ØC	ØD
80	9.5	48	80	89.5
100	12	48	100	111
125	15	48	118.5	129
150	15	48	149	161

- NOTES
- Drawing not to scale. All dimensions are in mm.
 - For other mounting details, Panel cut-out dimensions, kindly contact factory.

ORDERING CODES

MODEL						TGI50-2	
TGI50-2 Bimetal thermometer-Center Back with Every Angle							
DIAL SIZE							
D3	3" / 80 mm	D4	4" / 100 mm	D6	6" / 150 mm		D4
MOUNTING							M12
		M12	Every angle center back entry				
CONNECTION							P8
P4	1/4" NPT (M)	P20	3/8" NPT (M)	P8	1/2" NPT (M)		
P3	1/4" BSP (M)	P5	3/8" BSP (M)	P7	1/2" BSP (M)		
CASE FILLING							F1
F1	Dry	F2	Dry but fillable	F3	Glycerin filled		
F4	Silicon oil filled						
INGRESS PROTECTION							I1
I1	IP 65	I6	IP 68				
STEM SIZE							B6
B6	6 mm	B8	8 mm	B10	10 mm		
B12	12 mm	B9	9.5 mm	B7	6.35 mm (1/4")		
STEM LENGTH							100
XXXX	Please mention stem length in 'mm'						
RANGE							0-100°C
0-100°C	Please mention range required with the measurement unit [TGI offer in all types of National & International measurement units, e.g. °C, °F, etc. with single or dual scales]						
OPTIONAL EXTRAS							E16/E27
E33	AISI 316 SS case & ring	E01	Shatterproof safety glass	E46	External zero adjustment (> 63 mm)		
E27	AISI 304 SS tag plate	E28	AISI 316 SS tag plate	E31	Custom designed dial		
E32	Dial tag marking	E16	5 - point calibration certificate				

Ordering Example : TGI50-2-D4.M12.P8.F1.I1.B6/100/0-100°C/E16/E27