

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



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

BIMETAL THERMOMETER WITH EVERY ANGLE CLAMP, TMC50-2

Standard version

Dial size : 80 mm / 100 mm / 115 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 : ½" NPT (M) / ½" BSP (M)

Filled version

Glycerin

Window : Shatterproof safety glass

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

Silicon Oil

Window : Shatterproof safety glass

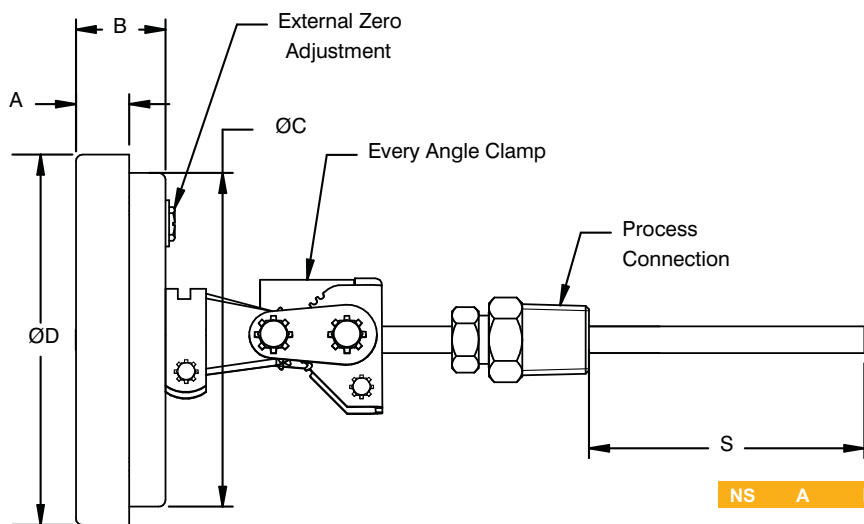
Gasket, Blow off disc & filling plug : NBR / Viton

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

Temperature Effect

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

DIMENSIONAL DRAWING



NOTES:

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

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

ORDERING CODES

MODEL						TMC50-2			
TMC50-2 Bimetal thermometer-Center Back with Every Angle									
DIAL SIZE						D4			
D3	3" / 80 mm		D4	4" / 100 mm					
D5	4.5" / 115 mm		D6	6" / 150 mm					
MOUNTING						M12			
			M12	Every angle center back entry					
CONNECTION						P8			
P4	¼" NPT (M)		P20	3/8" NPT (M)			P8	½" NPT (M)	
P3	¼" BSP (M)		P5	3/8" BSP (M)			P7	½" 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	6 mm		B8	8 mm		B10	10 mm		B6
B12	12 mm		B9	9.5 mm		B7	6.35 mm (¼")		
STEM LENGTH						100			
XXXX	Please mention stem length in ‘mm’								
RANGE									
0-100°C	Please mention range required with the measurement unit [TMC offer in all types of National & International measurement units, e.g. °C, °F, etc. with single or dual scales]					0-100°C			
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 : TMC50-2-D4.M12.P8.F1.I1.B6/100/0-100°C/E16/E27