GAS FILLED TEMPERATURE GAUGE WITH EXTERNAL ZERO ADJUSTMENT

TGI51-2

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



GAS FILLED TEMPERATURE GAUGE- EZA- TGI51-2

DESCRIPTION

General

Design: EN 13190

Accuracy: ±1.0% of full scale
Ambient temperature: -20...+60°C

Storage temperature: -50...+70°C without liquid dampening

-20...+60°C with liquid dampening **Over range limits**: 110% full scale

Stem pressure rating: 25 bar (Without thermowell)

Weld joints: TIG argon arc welding

Material of construction

Sensing element: Inert Gas Filled sensor bulb

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: Micro-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): max $\pm 0.4\%$ / 10K of full scale value.

Standard version

Dial size: 100 mm / 150 mm / 250 mm

Range: -50 up to 800°C

 $\begin{array}{l} \textbf{Mounting pattern}: \mbox{Direct Bottom connection} \\ \textbf{Stem size}: 6.0 \mbox{ mm } / \mbox{ 8.0 } \mbox{ mm } / \mbox{ 9.5 } \mbox{ mm } / \mbox{ 12 } \mbox{ mm} \\ \end{array}$

Ingress protection: IP 65

Stem length: 150 mm standard up to 3000 mm Process connection type: Adjustable connection Process connection: ½" NPT (M) / ½" 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]

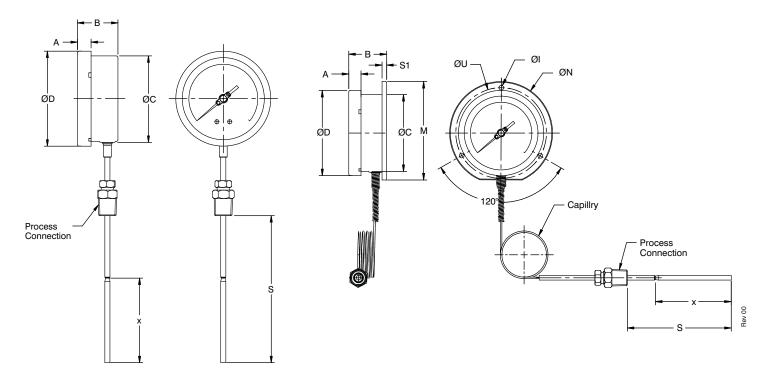




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DIMENSIONAL DRAWING



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

NS	Α	В	ØС	ØD	Ø١	ØN	M	S1	ØU
100	12	48	100	111	6	134	128	6	118
150	15	48	149	161	6	186	172.4	6	168
250	18.5	52	250	263	7	290	286.5	1.5	276

ORDER	ING CODES						
MODEL						TGI51	
TGI51-2	Gas filled temperature gauge with External Zero Adjustment						
DIAL SIZE						— D4	
D4	4" / 100 mm	D6	6" / 150 mm	D10	10" / 250 mm	— D4	
MOUNTING						B/I-4	
Direct type	(Rigid stem)					M1	
M1 M6	Direct bottom Direct lower back	M5 M16	Direct center back Bottom with Anti-vibratio	M12 n spring	Every angle center back entry		
Remote type	e (Capillary extension)						
M2 M8	Direct bottom with Back flange MF Direct lower back with front flange Direct lower back with panel mounting clamp						
CONNECTIO	ON					DO	
P4 P3	1/4" NPT (M) 1/4" BSP (M)	P6 P5	3/8" NPT (M) 3/8" BSP (M)	P8 P7	½" NPT (M) ½" BSP (M)	— P8	
CASE FILLI	NG					E1	
F1 F4	Dry Silicon oil filled	F2	Dry but fillable	F3	Glycerin filled	— F1	
INGRESS P	ROTECTION					14	
l1	IP 65	16	IP 68			— I1	

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ORDEF	RING CODES					
EXECUTIO	N					D4
R1	Direct	R2	Remote			R1
STEM SIZE						DC
B6 B12	6 mm 12 mm	B8 B9	8 mm 9.5 mm	B10 B7	10 mm 6.35 mm (1⁄4")	—— B6
STEM LEN	gтн					100 mm
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]					
CAPILLAR	Υ					VVV
S01	AISI 304 SS	S02	AISI 316 SS			XXX
CAPILLAR	Υ					VVV
S01	AISI 304 SS	S02	AISI 316 SS	S16	PVC [Ambient up to 65°C]	XXX
STEM LEN	GTH					xxxx
XXXX	Please mention stem length in 'mm'					
OPTIONAL	EXTRAS					E40/E0E
E33 E27 E32	AISI 316 SS case & ring AISI 304 SS tag plate Dial tag marking	E01 E28 E16	Shatterproof safety glass AISI 316 SS tag plate 5 - point calibration certificate	E46 E31 E14	External zero adjustment Custom designed dial Rubber parts, Viton	E16/E27

Ordering Example: TGI51-2-D4.M1.P8.F1.I1.R1.B6/100 mm/0-100°C/E16/E27

Rev 00

