

GAS FILLED TEMPERATURE GAUGE WITH EXTERNAL ZERO ADJUSTMENT, ZIPL51-2

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



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DESCRIPTION

General

Design : EN 13190
Accuracy : $\pm 1.0\%$ 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

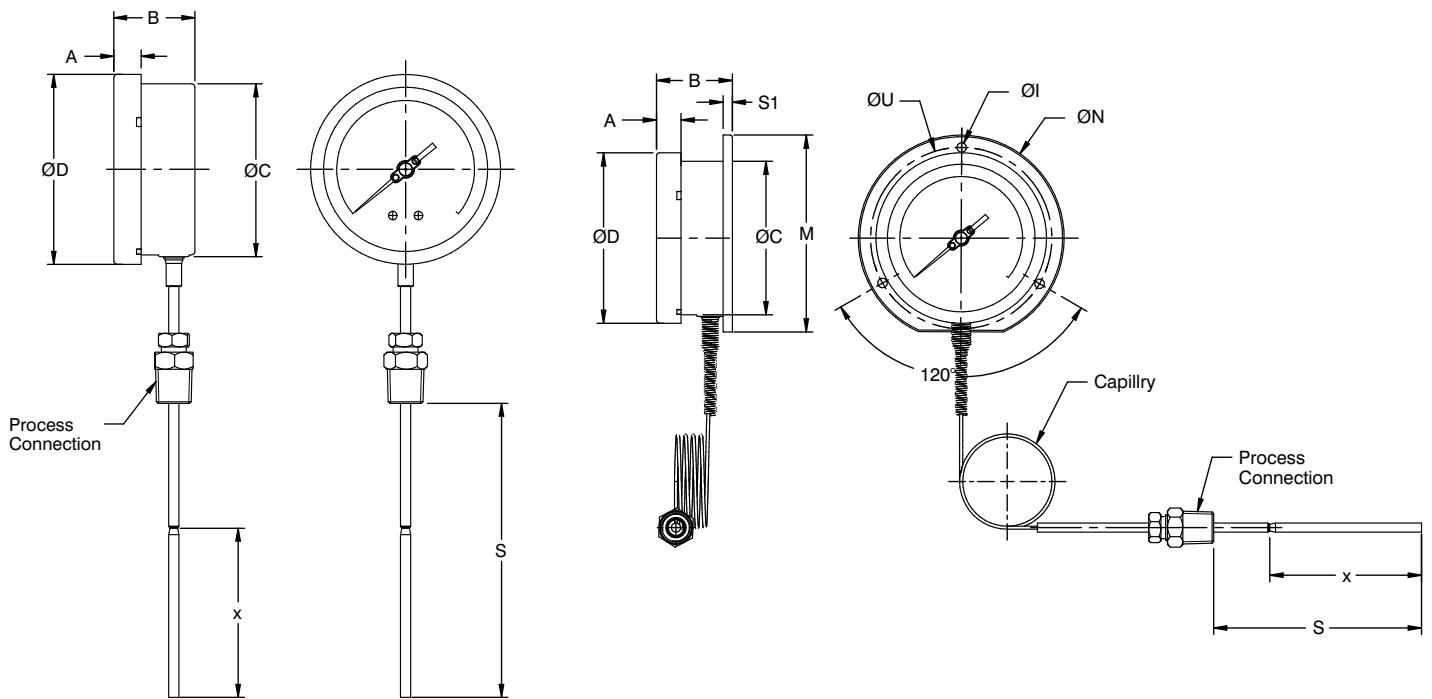
Dial size : 100 mm / 150 mm / 250 mm
Range : -50 up to 800°C
Mounting pattern : Direct Bottom connection
Stem size : 6.0 mm / 8.0 mm / 9.5 mm / 12 mm
Ingress protection : IP 65
Stem length : 150 mm standard up to 3000 mm
Process connection type : Adjustable connection
Process connection : $\frac{1}{2}$ " 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]

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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	A	B	ØC	ØD	ØI	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

ORDERING CODES

MODEL

ZIPL51-2 Gas filled temperature gauge with External Zero Adjustment

ZIPL51-2

D4

DIAL SIZE

D4 4" / 100 mm D6 6" / 150 mm D10 10" / 250 mm

M1

MOUNTING

Direct type (Rigid stem)

M1	Direct bottom	M5	Direct center back	M12	Every angle center back entry
M6	Direct lower back	M16	Bottom with Anti-vibration spring		

Remote type (Capillary extension)

M2	Direct bottom with Back flange	MF	Direct lower back with front flange
M8	Direct lower back with panel mounting clamp		

P8

CONNECTION

P4	1/4" NPT (M)	P6	3/8" NPT (M)	P8	1/2" NPT (M)
P3	1/4" BSP (M)	P5	3/8" BSP (M)	P7	1/2" BSP (M)

F1

CASE FILLING

F1	Dry	F2	Dry but fillable	F3	Glycerin filled
F4	Silicon oil filled				

I1

INGRESS PROTECTION

I1	IP 65	I6	IP 68
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ORDERING CODES

EXECUTION

R1	Direct	R2	Remote	R1
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STEM SIZE

B6	6 mm	B8	8 mm	B10	10 mm	B6
B12	12 mm	B9	9.5 mm	B7	6.35 mm (1/4")	

STEM LENGTH

XXXX	Please mention stem length in 'mm'	100 mm
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RANGE

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]	0-100°C
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CAPILLARY

S01	AISI 304 SS	S02	AISI 316 SS	XXX
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CAPILLARY

S01	AISI 304 SS	S02	AISI 316 SS	S16	PVC [Ambient up to 65°C]	XXX
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STEM LENGTH

XXXX	Please mention stem length in 'mm'	XXXX
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OPTIONAL EXTRAS

E33	AISI 316 SS case & ring	E01	Shatterproof safety glass	E46	External zero adjustment	E16/E27
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	E14	Rubber parts, Viton	

Ordering Example : ZIPL51-2-D4.M1.P8.F1.I1.R1.B6/100 mm/0-100°C/E16/E27