

Series 2511TG: DIN INDUSTRIAL THERMOMETER (DIN CASE) FILLED SYSTEM - EXTERNAL ZERO ADJUSTMENT



Features

- DIN case version.
- External zero adjustment
- · Stainless steel case & measuring system
- Inert gas filled expansion system.
- · Silicon oil filled
- Standard Followed EN 13190

Applications

- This Nitrogen filled thermometer is the most widely specified instrument for measuring exhaust gas temperatures in diesel engines.
- The Nitrogen filled system is both reliable & accurate as well as environment Friendly.
- The instruments are protected against vibration using silicone oil to ensure maximum life under the most severe conditions.
- The instrument field applications are refinery, diesel power generation sets, power, pulp & paper, shipping, offshore, DG sets, oil engines & allied process industries.

Specifications

Standard Version: 100 mm, 150 mm

Accuracy : Class 1 as per EN 13190 Case & bezel : AISI 304 SS (Snap Lock type)

Movement : Copper Alloy Stem & connection : AISI 316 SS

Joints : Tig argon arc welding Ambient temperature : -25°C C to 65°C

Operating pressure : 15 kg/cm2 (without thermowell)

Over range limit : 120 % of Full Scale

Stem diameter : 8 mm

Process connection : ½"BSP (M) Adjustable

Protection : IP 65

Dial : Aluminium, black graduation on white background
Pointer : Aluminium, black Coloured Micrometer Zero adjustable

Window : Sheet Glass Gasket & Filling Plug : Neoprene

Silicon oil filled Version

Accuracy : Class 1 as per EN 13190

Ambient Temperature : Maximum 65°C Window : Plexi Glass

Dampening Liquids : Silicon Oil (Option DS)

Gasket & filling Plug* : Viton

Other Features : Refer Specification of Standard Version

*Gasket & Filling plug of Viton.

Nominal range, measuring ranges & limits of error as per EN 13190

or error as per LN 13130									
Nominal Range (°C)	Measuring Range (°C)	Limits of Error (± °C)							
-20 to +40	-10 to +30	1							
-20 to +60	-10 to +50	1							
-20 to +120	-10 to +110	2							
-30 to +30	-20 to +20	1							
-30 to +50	-20 to +40	1							
-30 to +70	-20 to +60	1							
-40 to +40	-30 to +30	1							
-40 to +60	-30 to +50	1							
-100 to +60	-80 to +40	2							
0 to 60	10 to 50	1							
0 to 80	10 to 70	1							
0 to 100	10 to 90	1							
0 to 120	10 to 110	2							
0 to 160	20 to 140	2							
0 to 200	20 to 180	2							
0 to 250	30 to 220	2.5							
0 to 300	30 to 270	5							
0 to 400	50 to 350	5							
0 to 500	50 to 450	5							
0 to 600	100 to 500	10							

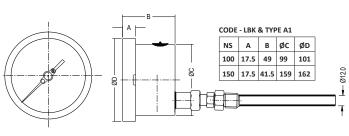
Note: Design and Specifications subject to change without prior notice.

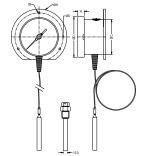


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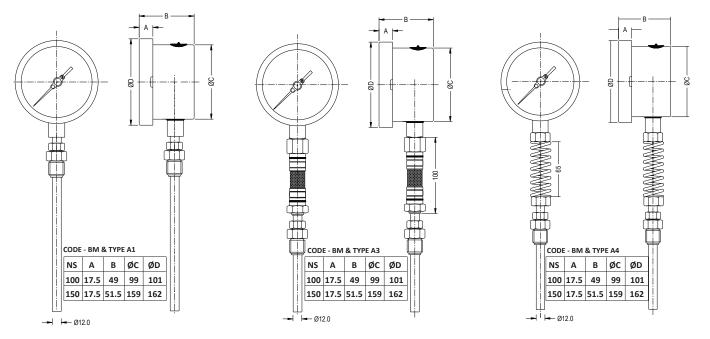
Dimensions - Standard Version

Diagram and Code indicates Type of Mounting





CODE - BMW & TYPE A2										
NS	Α	В	øс	ØD	ø١	ØΝ	øυ			
100	17.5	49	99	101	4.8	132	116			
150	17.5	51.5	159	162	5.8	196	178			



Notes: • Drawings are not to scale. • All Dimensions are in mm. • NS = Nominal Size.

Range Table

Note : We offer National / International Scales like ° C, °F & Dual Scale in ° C & °F & Scales as per the requirement can be provided on request. Following are the example tables for ° C

Standard Ranges

Positive range single scale in °C									
Range	Range	Range	Range						
0 to 60	0 to 120	0 to 250	0 to 500						
0 to 80	0 to 160	0 to 300	0 to 600						
0 to 100	0 to 200	0 to 400	50 to 650						
Compound range single scale	Compound range single scale in °C								
Range	Range	Range	Range						
-80 to 60	-20 to 60	-40 to 60	-20 to 180						
-60 to 40	-20 to 80	-30 to 50	-20 to 100						

Refer table for limits of error as per EN13190

Accessories (*Refer Datasheet For Thermowells)

* Thermowell

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How To Order - Ordering Example: 2511TG: DIN.150. EA. 2NPM. ADJ. 2C. 100mm. 0 to 60°C SS

Basic Model 2511TG : DIN								
Code		100	150					
Nomina	al Size	100 mm	150 mm					
Code	Type of Mounting							
BMW	Wall / surface / projection mounting with bottom entry							
BM	Direct bottom entry							
LBK	Direct lower back entry							

Code	Process Connection (# Not recommended for Revolving/ Swivel connections.)						
2BSM	½" BSP (M) (Standard)*	34BSM	3/4" BSP (M)				
2NPM	½" NPT (M)#*	2M20	M20 x 1.5 (M)*				
2BSTM	½" BSPT (M)#*	38BSM	3/8" BSP (M)*				

^{*} Suitable for stem diameter 6 to 10 mm, Note : Connections like Metric/ PT/ PF/ Flaired/ UNF/ G/ R etc can be provided on request.

Co	de Process Connection Type	Code	Process Connection Type	Code	Process Connection Type
AD	J Adjustable (Standard)	FXD	Fixed	ROV	Revolving / Swivel

Stem D	iameter								
1U	6 mm	2M	6.35 mm	2C	8 mm (Standard)	21	9.5 mm	2J 10 mm	2K 12 mm

Stem Length (Below thread	Max. 600 mm)					
Please specify in mm	Minimum stem Length (Below Thread)	130 mm	120 mm	120 mm	120 mm	110 mm
	Stem OD	6 / 6.35mm	8 mm	9.5 mm	10 mm	12 mm

Range Refer range table

Code	Туре	Code	Type (* Suitable stem diameter 12 mm only)			
A1	With rigid stem	А3	With SS breaded anti vibration*			
A2	With capillary	A4	With SS anti vibration spring*			

Capillary length (Max up to 15 Mtrs.) In meters (e.g. 1.5 = 1.5 meters 2.0 = 2 meters)

Code	Capillary	Code	Capillary
SS3	AISI 304 SS	SS	AISI 316 SS

Capillary covered with armour (Applicable with Capillary if selected)

Code	Capillary	Code	Capillary	Code	Capillary
SS3	AISI 304 SS	SS	AISI 316 SS	PVC	PVC (Ambient Temp. Max. 60°C)

Code	Options	Code	Options
DG	Dampening liquid glycerin filled (ambient temp. Max. 65°C)	CD	Custom designed dial
C5	Five point calibration certificate (for measuring range)	SG	Shatterproof/safety glass
DS	Dampening liquid silicon oil (ambient temp. Above 65°C)*	TG	Toughened glass
MTC	Material test certificates#	TM	Dial tag marking
		ST	SS tag plate

^{*}Gasket & Filling plug of Viton. # Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

For other optional items, please contact factory for delivery and minimum quantity of order.

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