

All SS Industrial Dial Thermometer Gas Filled system With 4 to 20 mA Out Put

Special Features

- C € approved electrical contacts.
- Inert gas filled expansion system.
- Stainless steel case & stem
- With or without thermowell
- 4 to 20 mA Out Put
- Standard followed EN 13190.

Application

- All stainless steel inert gas filled thermometers are
- suitable for corrosive media / environments in process industry chemical
- Food
- Pharmaceutical
- Pulp
- Paper
- Refinery Cement & many more.

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Specifications

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100 150 200 8 250

Standard Version : 100 mm	n, 150 mm, 200 mm & 250 mm	Nominal range, measuring ranges & limits				
Accuracy	: Class 1 as per EN 13190	of error as per	EN 13190			
Ambient temperature	: -25°C to 65 °C	Nominal	Measuring	Limits of		
Operating pressure	: 15 kg/cm ² (without thermowell)	Range (°C)	Range (°C)	Error (± °C)		
Over range limit	: 120% of Full Scale	-20 to +40	-10 to +30	1		
Stem diameter Process connection	: 8 mm : ½" BSP (M) Adjustable	-20 to +60	-10 to +50	1		
The connection		-20 to +120	-10 to +110	2		
Case & bezel	: AISI 304 SS (Bayonet Type)			-		
Stem & connection	: AISI 316 SS	-30 to +30	-20 to +20	1		
Joints	: Tig Argon arc welding	-30 to +50	-20 to +40	1		
Protection	: IP 68	-30 to +70	-20 to +60	1		
Dial	: Aluminium, black graduation on white background	-40 to +40	-30 to +30	1		
Pointer	: Aluminium, black Coloured Micrometer Zero adjustable	-40 to +60	-30 to +50	1		
Window	: Toughened Glass	-100 to +60	-80 to +40	2		
Gasket & Filling Plug	: Neoprene	0 to 60	10 to 50	1		
Standard version : Electric	cal contacts					
Accuracy	: Class 1 as per EN 13190	0 to 80	10 to 70	1		
Ambient Temperature	: Maximum 65°C	0 to 100	10 to 90	1		
Window	: Polycarbonate Dome	0 to 120	10 to 110	2		
Dampening Liquids Other Features	: Dielectric Oil (Optional)	0 to 160	20 to 140	2		
	: Refer Specification of Standard Version	0 to 200	20 to 180	2		
Standard version : Silicon		0 to 250	30 to 220	2.5		
Accuracy	: Class 1 as per EN 13190					
Ambient Temperature	: Maximum 65°C	0 to 300	30 to 270	5		
Window	: Plexi Glass	0 to 400	50 to 350	5		
Dampening Liquids Gasket & Filling Plug*	: Silicon Oil (Option QA) : Viton	0 to 500	50 to 450	5		
Other Features	: Refer Specification of Standard Version	0 to 600	100 to 500	10		

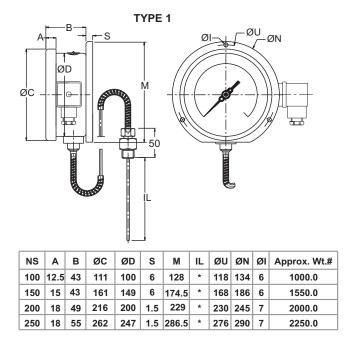
*Gasket & Filling plug of Viton.

Note : The addition of mechanical electric contacts affects the accuracy of instruments such that 1% becomes 1.5%, 1.6% becomes 2.4% etc. (Add the 50% of accuracy; If the contact is of the magnetically assisted type, this value can't be added within the ±5% of setting point.)



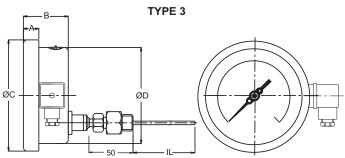
All SS Industrial Dial Thermometer Gas Filled System With 4 to 20 mA out put

Dimensions - Standard Version



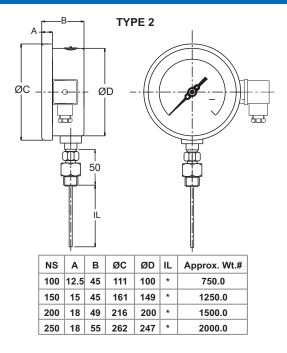
(* As per customer requirement.)

(# Weight in grams with box for 250 mm stem length & 3 meter capillary.)

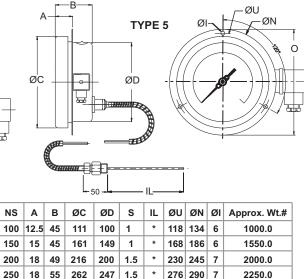


NS	Α	в	øc	ØD	IL	Approx. Wt.#
100	12.5	45	111	100	*	750.0
150	15	45	161	149	*	1250.0
200	18	49	216	200	*	1500.0
250	18	55	262	247	*	2000.0

(* As per customer requirement.) (# Weight in grams with box for 250 mm stem length.)



(* As per customer requirement.) (# Weight in grams with box for 250 mm stem length.)

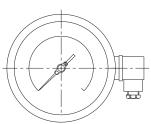


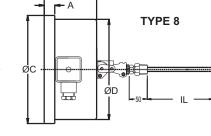
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(# Weight in grams with box for 250 mm stem length & 3 meter capillary.)

	NS	A	в	øc	ØD	١L	Approx. Wt.#
	100	12.5	45	111	100	*	750.0
	150	15	45	161	149	*	1250.0
	200	18	49	216	200	*	1500.0
<u></u>	250	18	55	262	247	*	2000.0

(* As per customer requirement.) (# Weight in grams with box for 250 mm stem length.)





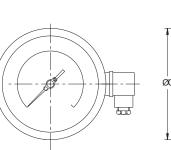
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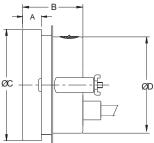


TYPE 9

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Dimensions - Standard Version





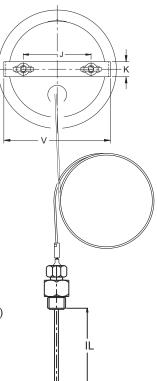
NS	A	в	ØC	ØD	IL	J	к	v	Approx. Wt.#
100	12.5	45	111	100	*	72	16	108	1100.0
150	15	45	161	149	*	106	16	166	1600.0
200	18	49	216	200	*	165	16	208	2150.0
250	18	55	262	247	*	180	30	270	2400.0

(* As per customer requirement.)

(# Weight in grams with box for 300 mm stem length & 3 meter capillary.)

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

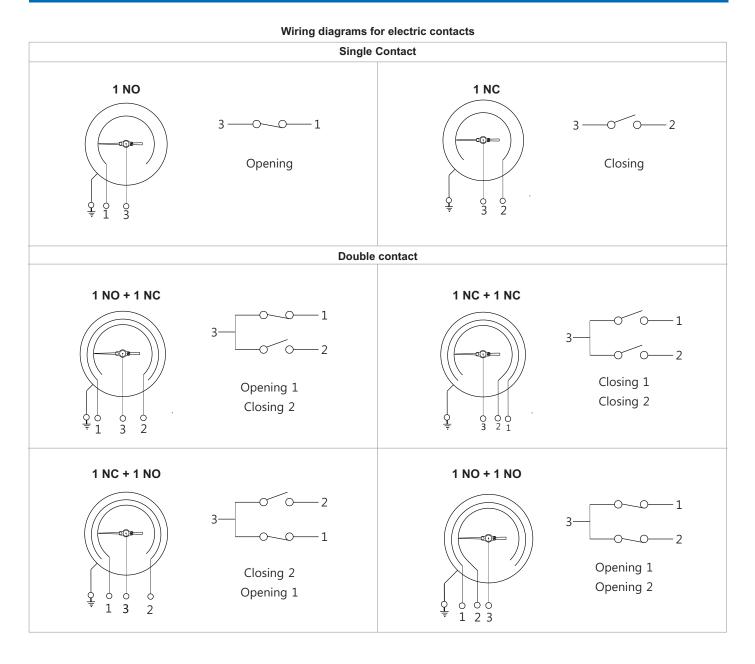
Note: *Compound ranges are not recommended for electrical contact option. Refer table for limits of error as per EN13190 (On First Page)
ACCESSORIES (* Refer datasheet for Thermowells)

* Thermowell



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Electrical Contact Wiring Information





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How	To Order										Example	
Basic	Model											
Code											GTMA	
Nomir	nal Size							60	80	100	xx	
Туре с	of Mounting(*withou	t Capillary	option)					150 mm	200 mm	250 mm	or XXX	
1												
•	With bottom entry8Every angle back entry*2Direct bottom entry*9Lower back entry with mounting bracket											
2 3	Direct bottom entry* Direct lower back er			9 Lower	раск е	entry with n	nounting	Dracket				
			mended for Revol	vina/ Swive	l conne	ections)					-	
	3/8" BSP (M)*	4BM	¹ / ₂ " BSP (M) (Sta	-	5BM	,	<i>(</i> 1)				-	
	3/8" NPT (M)*#	4NM	¹ / ₂ " NPT (M)#*	andaraj	4MM		,				XXX	
3TM	3/8" BSPT (M)*#	4TM	1⁄2" BSPT (M)#*									
* Suita	ble for stem diameter	6 to 10 mi	m									
Proce	ss Connection Type										-	
AD	Adjustable (Standar	d)	FX Fixed		SL	Revolving	/ Swivel				XX	
Stem	Diameter											
SDO	4 4 mm SD06	6 mm (8	Standard) S	D08 8 mm	ı	SD	10 10 m	mm S	D12 12 mr	n	XXXX	
Stem	Length (Below threa	d Max. 60	0 mm)									
Please	e specify in mm	Minimu	um stem Length (E	Below Threa	id)	120 mm	100 m	ım 100 n	nm 80 mm	1	100 mm	
		Stem C	DD			6 mm	8 mr	n 10 m	m 12 mm	ı		
Range	•										-	
Refer	range table										0/100°C	
Туре	ST With rig	id stem	CP With cap	pillary							XX	
Capill	ary length (Max up t	o 15 Mtrs.)) In meters (e.q.	1.5 = 1.5 m	eters	2.0 = 2 met	ers)				3Mtr.	
Capilla	ary S4 AISI 30)4 SS	56 AISI 31	6 SS			,				XX	
•	ary covered with arr				cted)							
	AISI 304 SS		SI 316 SS			/C (Ambient	t Temp. I	/lax. 60°C)			XX	
	Connection	20 . 10		•	•	- (,						
PG9	: PG 9 : 4 PIN DIN CONNE	CTOR									XXX	

* Dry version & except electrical contacts. ** Available for NS 100 mm to 150 mm. Consult factory for minimum order quantity & delivery. *** Gasket & Filling plug of Viton. # Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory. **Five Point Calibration Certificate Provided With Each Gauge For Measuring Range Only.**

Ordering Example: GTMA - XX or XXX - X - XXX - XX - XXXX - 100 mm - 0/أال C - XX - 3Mtr - XX - XXX - XXX

For other optional items, please contact factory for delivery and minimum quantity of order. Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.