



MT

All SS Industrial Dial Thermometer Mercury Filled system



Special Features

- C € approved electrical contacts.
- Mercury filled expansion system.
- Stainless steel case & stem
- With or without thermowell
- Silicon oil filled (optional)
- Standard followed EN 13190.

Application

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

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Standard Version	ı : 63.mm	100 mm.	. 150 mm.	. 200 mm	& 250	mm

Accuracy : Class 1 as per EN 13190

Ambient temperature : -25°C to 65°C

Operating pressure : 15 kg/cm² (without thermowel)

Over range limit : 120 % of Full Scale

Stem diameter : 8 mm

Process connection : $\frac{1}{2}$ " BSP (M) Adjustable

Case & bezel : AISI 304 SS (Bayonet Type) Stem & connection : AISI 316 SS

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Joints : Tig Argon arc welding

Protection : IP 68

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

Window : Toughened Glass

Gasket & Filling Plug : Neoprene

Standard version: Electrical contacts

Accuracy : Class 1 as per EN 13190
Ambient Temperature : Maximum 65°C
Window : Polycarbonate Dome
Dampening Liquids : Dielectric Oil (Optional)

Other Features : Refer Specification of Standard Version

Standard version : Silicon oil filled

Accuracy : Class 1 as per EN 13190

Ambient Temperature : Maximum 65°C Window : Plexi Glass

Dampening Liquids : Silicon Oil (Option QA)

Gasket & Filling Plug* : Viton

Other Features : Refer Specification of Standard Version

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.)

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

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

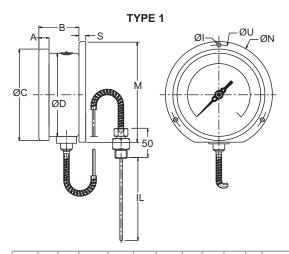
^{*}Gasket & Filling plug of Viton.



MT

All SS Industrial Dial Thermometer Mercury Filled System

Dimensions - Standard Version



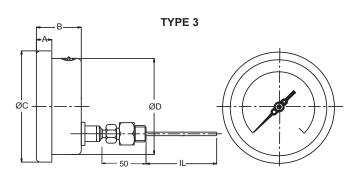
NS	A	В	øс	ØD	s	М	IL	Øυ	ØN	ØΙ	Approx. Wt.#
100	12.5	43	111	100	6	128	*	118	134	6	1000.0
150	15	43	161	149	6	174.5	*	168	186	6	1550.0
200	18	49	216	200	1.5	229	*	230	245	7	2000.0
250	18	55	262	247	1.5	286.5	*	276	290	7	2250.0

TYPE 2

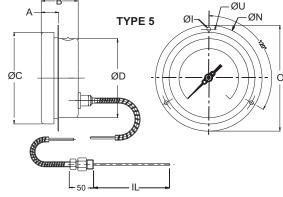
NS	Α	В	øс	ØD	IL	Approx. Wt.#
100	12.5	45	111	100	*	750.0
150	15	45	161	149	*	1250.0
200	18	49	216	200	*	1500.0
250	18	55	262	247	*	2000.0

(* As per customer requirement.) (# Weight in grams with box for 250 mm stem length & 3 meter capillary.)

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



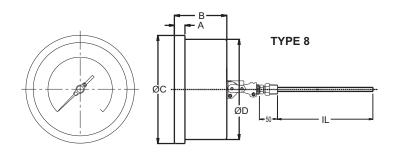
NS	Α	В	øс	ØD	IL	Approx. Wt.#
100	12.5	45	111	100	*	750.0
150	15	45	161	149	*	1250.0
200	18	49	216	200	*	1500.0
250	18	55	262	247	*	2000.0



NS	Α	В	øс	ØD	s	IL	øυ	ØN	ØΙ	Approx. Wt.#
100	12.5	45	111	100	1	*	118	134	6	1000.0
150	15	45	161	149	1	*	168	186	6	1550.0
200	18	49	216	200	1.5	*	230	245	7	2000.0
250	18	55	262	247	1.5	*	276	290	7	2250.0

(* 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 & 3 meter capillary.)



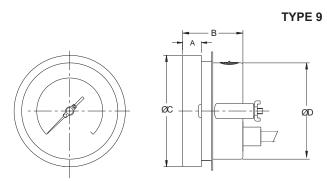
NS	Α	В	øс	ØD	IL	Approx. Wt.#
100	12.5	45	111	100	*	750.0
150	15	45	161	149	*	1250.0
200	18	49	216	200	*	1500.0
250	18	55	262	247	*	2000.0

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



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Dimensions - Standard Version



NS	Α	В	øс	ØD	IL	J	K	٧	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

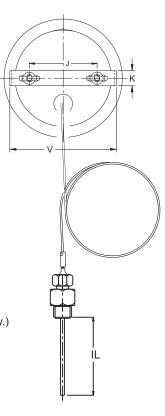
(* As per customer requirement.)

(# 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 \mathbb{C} , \mathbb{F} & Dual scale in \mathbb{C} , \mathbb{F} & scales as per the requirement can be provided on request. following are the example tables for \mathbb{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	0/100 0/200		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)

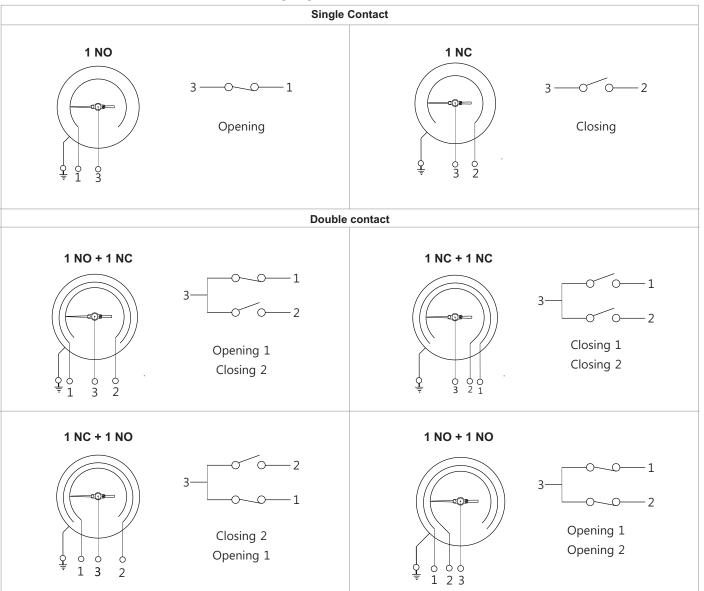
* Thermowell



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Electrical Contact Wiring Information

Wiring diagrams for electric contacts





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Basic Model							
Code							MT
Nominal Size	25	40	45	60	80	100	XX
Type of Mounting(*without Capillary option)	63 mm	100 mm	125 mm	150 mm	200 mm	250 mm	or XXX
 Wall/surface/projection mounting With bottom entry Direct bottom entry* Direct lower back entry* Process Connection (# Not recommended for Revo	8 Every 9 Lower	angle back back entry	with mountir				X
,							
3BM 3/8" BSP (M)* 4BM ½" BSP (M) (St 3NM 3/8" NPT (M)*# 4NM ½" NPT (M)#* 3TM 3/8" BSPT (M)*# 4TM ½" BSPT (M)#*	•	4MM M20	3SP (M) x 1.5 (M)*				XXX
Suitable for stem diameter 6 to 10 mm							
Process Connection Type							
AD Adjustable (Standard) FX Fixed		SL Rev	olving / Swiv	/el			XX
Stem Diameter							
SD04 4 mm SD06 6 mm (Standard) S	SD08 8 mm		SD10 1	0 mm 💲	SD12 12 mm		XXXX
Stem Length (Below thread Max. 600 mm)							
Please specify in mm Minimum stem Length (Below Threa	d) 120	mm 100	mm 100 r	mm 80 mm		100 mr
Stem OD		6 m	m 8 r	mm 10 m	ım 12 mm		
Range			I	l	I		
Refer range table							0/100 °
Type ST With rigid stem CP With ca	pillary						XX
Capillary length (Max up to 15 Mtrs.) In meters (e.g	. 1.5 = 1.5 m	eters 2.0 =	2 meters)				3Mtr.
Capillary S4 AISI 304 SS S6 AISI 3			,				XX
Capillary covered with armour (Applicable with S4 o		ted)					, , ,
S4 AISI 304 SS S6 AISI 316 SS			mbient Temp	o. Max. 60°C)		XX
Electric Contacts (FOR NS 100 mm & 150 mm Only)		`	motoric romp	7. Wax. 00 0	/		///
(With IP protection up to IP 55 & window polycarbo	`						
· · · · · · · · · · · · · · · · · · ·		· · ·					
A) Single insulated magnetic snap action type (230 V AC, 1 Amp.)(48 V DC, 0.5 Amp.)		,	J. (V AC, 0.4 An ⋅WC & abov	. ,		
Available for 1 kg/cm² & above)	,	Available	JI 1000 IIIIII	WC & abov	e)		
M1 Single; normally closed (1 NC)		D1 Single	e; normally o	pen (1 NO)			XX
M2 Double; normally closed + normally open (1 NC	+ 1 NO)			closed (1 NC)		NO - 4 NO	^^
M3 Single; normally open (1 NO)M4 Double; normally open + normally closed (1 NO)) + 1 NC)			closed + no open (both I	rmally open (1	NC + 1 NO)	
M5 Double; normally closed (both NC)	, , , , , , , , , , , , , , , , , , , ,			closed (both			
M6 Double; normally open (both NO)					nally closed (1	NO + 1 NC)	
Optional Extras							
•		CDD Custo	om designed	l dial			
CBS AISI 316 SS case & hezel**		J Cust	400191100				
CBS AISI 316 SS case & bezel** LGF Dampening liquid glycerin filled (ambient temp. I	Max. 65°C)*	STG Shatt	erproof/safe	ty glass			
	/e 65°C)*		No. markin	, ,			XXX

^{*} Dry version & except electrical contacts. ** Available for NS 100 mm to 150 mm. Consult factory for minimum order quantity & delivery.

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

^{***} 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.