



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	: 03.111111	TUU IIIIII.	. TOU IIIIII.	. 200 111111	α Z 3	, 1111111

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 : ½" BSP (M) Adjustable

Case & bezel : AISI 304 SS (Bayonet Type)

Stem & connection : AISI 316 SS

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	0.5
-20 to +60	-10 to +50	1
-20 to +120	-10 to +110	2
-30 to +30	-20 to +20	0.5
-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
-20 to +80	-80 to +40	1
0 to 60	10 to 50	0.5
0 to 80	10 to 70	1
0 to 100	10 to 90	1
0 to 120	10 to 110	1
0 to 160	20 to 140	2
0 to 200	20 to 180	2
0 to 250	30 to 220	2
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	5

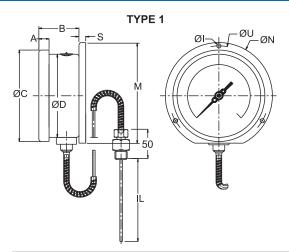
^{*}Gasket & Filling plug of Viton.



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All SS Industrial Dial Thermometer Mercury Filled System

Dimensions - Standard Version



NS	Α	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

A TYPE 2

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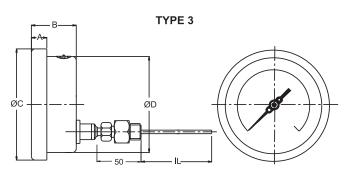
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IL

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

TYPE 5

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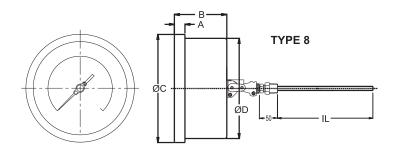
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N	ıs	Α	В	øс	ØD	s	IL	øυ	ØN	ØΙ	Approx. Wt.#
10	00	12.5	45	111	100	1	*	118	134	6	1000.0
1:	50	15	45	161	149	1	*	168	186	6	1550.0
20	00	18	49	216	200	1.5	*	230	245	7	2000.0
2	50	18	55	262	247	1.5	*	276	290	7	2250.0

(* 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.)



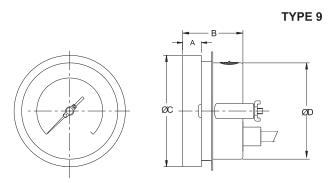
NS	Α	В	øс	ØD	IL	Approx. Wt.#
100	12.5	45	111	100	*	750.0
150	15	45	161	149	*	1250.0
200	18	49	216	200	*	1500.0
250	18	55	262	247	*	2000.0

^{(*} 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	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

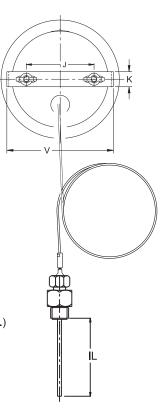
(* As per customer requirement.)

(# 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 \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	0/200	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)

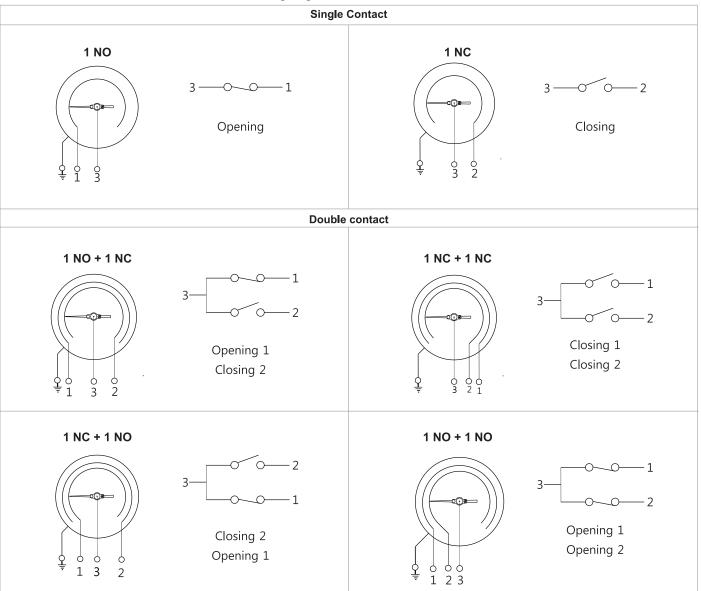
* Thermowell



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Electrical Contact Wiring Information

Wiring diagrams for electric contacts





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	To Order										Exam
	Model										
Code	-10:			0.5	40	45			00	400	MT
	al Size	Canillan.	4:>	25	40 100 mm	45 125 mm	450		08	100	XX
1 2 3	of Mounting(*without of Wall/surface/projection With bottom entry Direct bottom entry* Direct lower back entry	n mountin		8 Every	back entry angle back back entry	with front f	lange		00 mm	250 mm	XXX
roce	ss Connection (# N	ot recomr	nended for Revo	olving/ Swive	I connection	ns.)					
3NM 3TM	3/8" BSP (M)* 3/8" NPT (M)*# 3/8" BSPT (M)*# ble for stem diameter 6	4BM 4NM 4TM	½" BSP (M) (S ½" NPT (M)#* ½" BSPT (M)#	,		BSP (M) 0 x 1.5 (M)	*				XXX
	ss Connection Type	7 10 10 11111									
	Adjustable (Standard)	<u> </u>	FX Fixed		SL Re	volving / Sv	wival				XX
	Diameter	<i>'</i>	FA Fixed		SL NO	voiving / Ov	VIVCI				
	94 4 mm SD06	6 mm (S	itandard)	SD08 8 mn		SD10	10 mm	SD1	2 12 mm		XXXX
	Length (Below thread										
	specify in mm		m stem Length	(Below Threa	ad) 120) mm 10	00 mm	100 mm	80 mm		100 m
		Stem O		(6 r		8 mm	10 mm	12 mm		100 111
Range	<u> </u>	Otern O			01		C 111111	10 111111	12 111111		
	range table										0/100
Гуре	ST With rigid	l stam	CP With ca	anillary							. XX
	ary length (Max up to				neters 20=	: 2 metere)					3Mtr.
Capilla			S6 AISI 3	<u></u>	101013 2.0 -	<u> </u>					XX
	ary covered with armo				cted)						
	AISI 304 SS		I 316 SS		PV PVC (A	mhient Ter	nn May	60°C)			XX
	ic Contacts (FOR NS				•	unblent lei	iip. iviax.	00 0)			^^
	IP protection up to IP			• • • • • • • • • • • • • • • • • • • •							
`	•										
(230 V	gle insulated magneti AC, 1 Amp.)(48 V DC, able for 1 kg/cm² & ak	, 0.5 A mp			B) Inductiv (Available						
M1 Single; normally closed (1 NC) M2 Double; normally closed + normally open (1 NC + 1 NO) M3 Single; normally open (1 NO) M4 Double; normally open + normally closed (1 NC + 1 NC) M5 Double; normally closed (both NC) M6 Double; normally open (both NO) M6 Double; normally open (both NO) M6 Double; normally open (both NO) M7 Double; normally open (both NC) M8 Double; normally open (both NC) M9 Double; normally open + normally closed (1 NO + 1 NC) M9 Double; normally open + normally closed (1 NO + 1 NC)									XX		
Option	nal Extras										
CBS LGF LSI MRP MTC	AISI 316 SS case & both Dampening liquid glycon Dampening liquid silicon Maximum reading point Material test certificate Anti-vibration Spring A	erin filled on oil (am inter with es#	bient temp. Abo	ve 65°C)*	STG Sha TND Tag STP SS	tom design tterproof/sa No. mark ag plate ectric oil fill	afety glass ing on D				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 - 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.