



All SS Industrial Dial Thermometer with Electrical Contact Gas Filled system (Dome Type)

Special Features

- C € approved electrical contacts.
- Inert gas filled expansion system.
- Stainless steel case & stem
- With or without thermowell
- 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.

220 80 100 100 100 CE

Specifications

Standard Version: 63,mm 100 mm & 150 mm

Accuracy : Class 1 as per EN 13190

Ambient temperature : -25°C to 65 °C

Operating pressure : 15 kg/cm² (without thermowell)

Over range limit : 120% of Full Scale

Stem diameter : 8 mm

Process connection : 1/2" 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 : Polycarbonate Dome

Gasket & Filling Plug : Neoprene

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

or error as per Liv 13130									
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							

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.)



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Standard Ranges

Note : We offer National / International Scales like $^{\circ}$ C, $^{\circ}$ F & Dual scale in $^{\circ}$ C, $^{\circ}$ F & scales as per the requirement can be provided on request. following are the example tables for $^{\circ}$ 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)

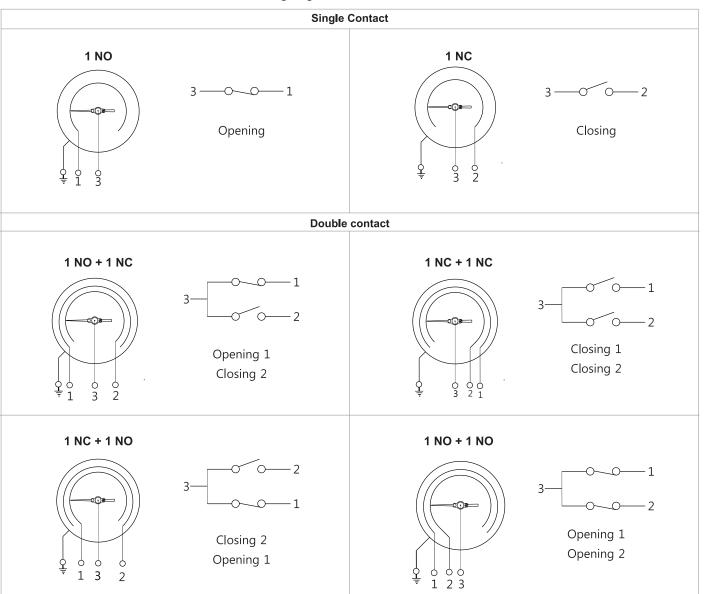
ACCESSORIES (* Refer datasheet for Thermowells)

* Thermowell

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Electrical Contact Wiring Information

Wiring diagrams for electric contacts





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How To Order							Examp
Basic Model							
Code				25			GT+E
Iominal Size					40	60	XX
Type of Mounting(*without Capillary option)				63 mm	100 mm	150 mm	or XXX
With bottom entry 5 Lc 2 Direct bottom entry* 8 Ex	wer back ery angle	ter back entry centry with fro e back entry* centry with m	ont flange	acket			X
Process Connection (# Not recommended for Revolving/ St	wivel coni	nections.)					
3BM 3/8" BSP (M)* 4BM ½" BSP (M) (Standard) 3NM 3/8" NPT (M)*# 4NM ½" NPT (M)#* 3TM 3/8" BSPT (M)*# 4TM ½" BSPT (M)#*	6BN	`)				XXX
* Suitable for stem diameter 6 to 10 mm							
Process Connection Type							
AD Adjustable (Standard) FX Fixed	SL	Revolving	/ Swivel				XX
Stem Diameter							
SD04 4 mm SD06 6 mm (Standard) SD08 8	mm	SD	10 10 mm	SD1	2 12 mm		XXXX
Stem Length (Below thread Max. 600 mm)							
Please specify in mm Minimum stem Length (Below T	hread)	120 mm	100 mm	100 mm	80 mm		100 mr
Stem OD		6 mm	8 mm	10 mm	12 mm		
Range							
Refer range table	Refer range table						
Type ST With rigid stem CP With capillary							XX
Capillary length (Max up to 15 Mtrs.) In meters (e.g. 1.5 = 1	.5 meters	2.0 = 2 met	ers)				3Mtr.
Capillary S4 AISI 304 SS S6 AISI 316 SS							XX
Capillary covered with armour (Applicable with S4 or S6 if s	elected)						
S4 AISI 304 SS S6 AISI 316 SS	PV F	PVC (Ambient	Temp. Ma	x. 60°C)			XX
Electric Contacts (FOR NS 100 mm & 150 mm Only) (C € Ap	proved)						
(With IP protection up to IP 55 & window polycarbonate do	me tvpe))					
A) Single insulated magnetic snap action type (230 V AC, 1 Amp.) (48 V DC, 0.5 Amp.)		ductive type	(220 V AC	, 0.4 A mp.)			
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 NO + 1 NC) M5 Double; normally closed (both NC) M6 Double; normally open (both NO) M6 Double; normally open (both NO) M7 Double; normally open (both NO) M8 Double; normally open (both NO) M9 Double; normally open (both NO) M9 Double; normally open + normally closed (1 NO + 1 NO) M9 Double; normally open + normally closed (1 NO + 1 NO) M9 Double; normally open + normally closed (1 NO + 1 NO)					,	XX	
Optional Extras							
CBS AISI 316 SS case & bezel** CDD Custom designed dial TND Tag No. marking on Dial							XXX
STP SS tag plate MTC Material test certificates#							700

 $^{^{\}star\star}$ Available for NS 100 mm to 150 mm. Consult factory for minimum order quantity & delivery.

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: GT+EC - 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.