

GT+BEC

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



CE

Special Features

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

Specifications

Standard Version : 100 mm & 150 mm

Accuracy	: Class 1 as per EN 13190
Ambient temperature	: -25°C to 65 °C
Operating pressure	: 15 kg/cm ² (without thermowell)
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	: Plexi / Acrylic
Gasket & Filling Plug	: Neoprene

Standard version : Dielectric oil filled

Accuracy	: Class 1 as per EN 13190
Ambient Temperature	: Maximum 65°C
Window	: Toughened Glass
Dampening Liquids	: Dielectric Oil (Optional)
Gasket & Filling Plug*	: NBR
Other Features	: Refer Specification of Standard Version

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

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.)

Standard Ranges

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
0/60	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	Range	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)

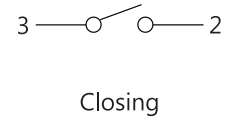
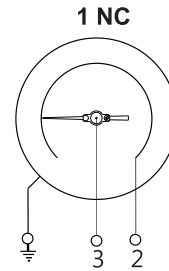
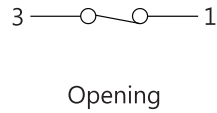
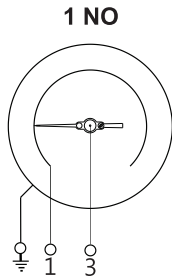
ACCESSORIES (* Refer datasheet for Thermowells)

* **Thermowell**

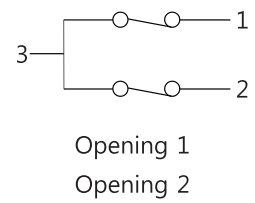
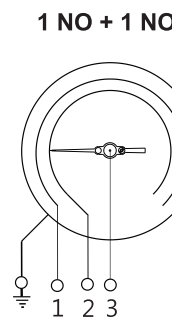
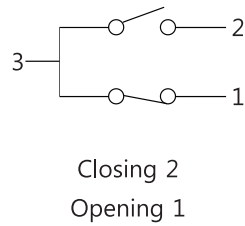
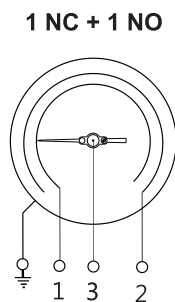
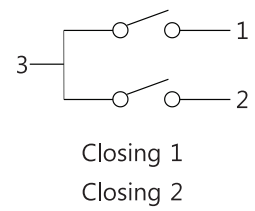
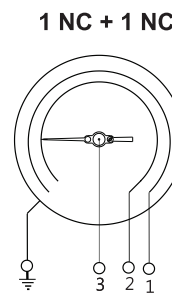
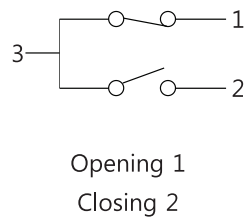
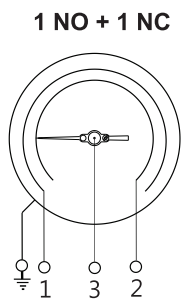
Electrical Contact Wiring Information

Wiring diagrams for electric contacts

Single Contact



Double contact



How To Order								Example
Basic Model								GT+BEC
Code								
Nominal Size				25	40	60		XX or XXX
Type of Mounting(*without Capillary option)				63 mm	100 mm	150 mm		
1	Wall/surface/projection mounting With bottom entry			4	Direct Center back entry			X
2	Direct bottom entry*			5	Lower back entry with front flange			
3	Direct lower back entry*			8	Every angle back entry*			
				9	Lower back entry with mounting bracket			
Process Connection (# Not recommended for Revolving/ Swivel connections.)								XXX
3BM	3/8" BSP (M)*		4BM	1/2" BSP (M) (Standard)*		5BM 3/4" BSP (M)		
3NM	3/8" NPT (M)*#		4NM	1/2" NPT (M)*#		6BM 1" BSP (M)		
3TM	3/8" BSPT (M)*#		4TM	1/2" BSPT (M)*#		4MM M20 x 1.5 (M)*		
* Suitable for stem diameter 6 to 10 mm								
Process Connection Type								XX
AD	Adjustable (Standard)		FX	Fixed		SL Revolving / Swivel		
Stem Diameter								XXXX
SD04	4 mm		SD06	6 mm (Standard)		SD08	8 mm	
						SD10	10 mm	
						SD12	12 mm	
Stem Length (Below thread Max. 600 mm)								100 mm
Please specify in mm		Minimum stem Length (Below Thread)			120 mm	100 mm	100 mm	
		Stem OD			6 mm	8 mm	10 mm	12 mm
Range								0/100°C
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 meters)								3Mtr.
Capillary	S4	AISI 304 SS		S6	AISI 316 SS			XX
Capillary covered with armour (Applicable with S4 or S6 if selected)								XX
S4	AISI 304 SS		S6	AISI 316 SS		PV PVC (Ambient Temp. Max. 60°C)		
Electric Contacts (FOR NS 100 mm & 150 mm Only) (C € Approved)								XX
(With IP protection up to IP 55 & window polycarbonate dome type)								
A) Single insulated magnetic snap action type (230 V AC, 1 Amp.) (48 V DC, 0.5 Amp.)				B) Inductive type (220 V AC, 0.4 Amp.)				XX
M1	Single; normally closed (1 NC)			D1	Single; normally open (1 NO)			
M2	Double; normally closed + normally open (1 NC + 1 NO)			D2	Single; normally closed (1 NC)			
M3	Single; normally open (1 NO)			D3	Double; normally closed + normally open (1 NC + 1 NO)			
M4	Double; normally open + normally closed (1 NO + 1 NC)			D4	Double; normally open (both NO)			
M5	Double; normally closed (both NC)			D5	Double; normally closed (both NC)			
M6	Double; normally open (both NO)			D6	Double; normally open + normally closed (1 NO + 1 NC)			
Optional Extras								XXX
CBS AISI 316 SS case & bezel**				DOF Dielectric oil filled***				
CDD Custom designed dial								
TND Tag No. marking on Dial								
STP SS tag plate								
MTC Material test certificates#								

** 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 - 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.