

Gas Filled Dial Thermometer

General

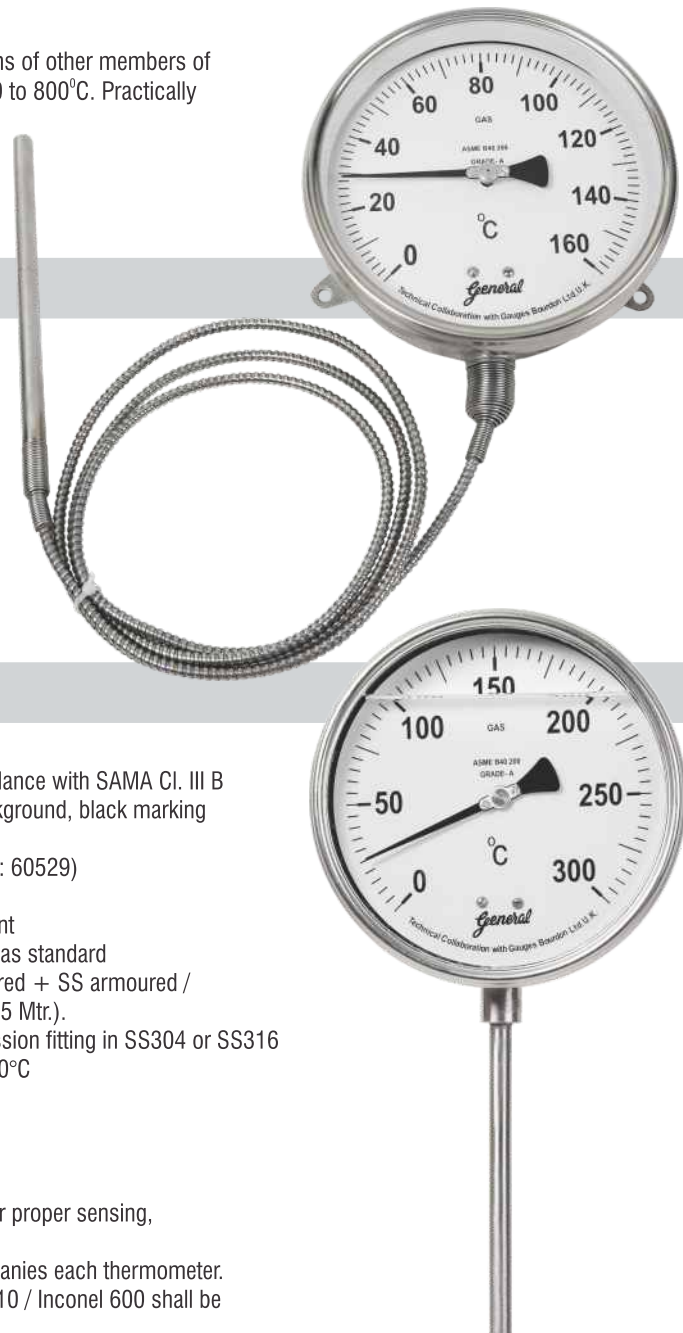
Gas filled Temperature Gauge overcomes most of the limitations of other members of family. It is offered in a very wide temperature range i.e. (-)200 to 800°C. Practically any stem length can be offered and capillary length as long as 25 mtr, without any loss of accuracy. Inert, non hazardous, non toxic nature of the filled system makes it virtually ideal choice of cross section of industries.

Features

- Use of inert gas - N₂
- Suitable for sanitary application
- All SS construction
- Rigid stem or capillary type
- Fast response
- Non-polluting, environment friendly
- Non-hazardous for the service
- High reliability
- IP-67 protection
- Accuracy $\pm 1\%$ FSD

Specifications

Ref. Standard	ASME B 40.200, EN 13190
System	Gas (N ₂) filled, case compensated in accordance with SAMA Cl. III B
Dial	100 mm / 150 mm in aluminium, white background, black marking
Case	SS304 / SS316 with bayonet bezel
Protection	Weatherproof to IP-67 (IS/IEC : 60947 / IEC : 60529)
Window	Shatterproof glass
Pointer	Aluminium, black with micrometer adjustment
Stem	SS316 in 6 mm, 8 mm, 10 mm, 12 mm dia as standard
Capillary	SS Covered / SS Covered + PVC / SS Covered + SS armoured / SS Covered + SS Armoured +PVC (up to 25 Mtr.).
Connection	1/2"NPT (M) adjustable three piece compression fitting in SS304 or SS316
Range	(-) 200°C to 800°C with minimum span of 80°C
Accuracy	$\pm 1\%$ FSD
Overrange	125% FSD
Reset	Micrometer Pointer
Optional	Silicon Oil Filled Case
Note	1) For minimum insertion length essential for proper sensing, contact our design department. 2) Three point calibration certificate accompanies each thermometer. 3) For operating temp > 600°C; stem of SS310 / Inconel 600 shall be recommended.



Under Technical Collaboration with M/s. Gauges Bourdon, U.K.

Ordering Information

GDT-R - Rigid Stem
GDT-C - Capillary Type

MODEL : GDT-R / GDT-C



MOUNTING
 V Bottom Entry, Local Mounting
 C Back Entry, Local Mounting
 E Every Angle, Local Mounting
 S Bottom Entry, Surface Mounting
 P Back Entry, Panel Mounting
 Y Bottom Entry, 2" Pipe Mounting

DIAL
 10 - 100 mm 15 - 150 mm

CASE
 S4 SS304
 S6 SS316

STEM-OD
 A 6 mm C 10 mm
 B 8 mm D 12 mm

STEM LENGTH
 Specify in mm

STEM MATERIAL
 S0 - SS310 S4 - SS304
 S6 - SS316 I6 - Inconel 600

CAPILLARY	
TYPE	LENGTH
SC SS Covered	Specify in metre
SP SS Covered + PVC	
SA SS Covered + SS Armoured	
SAP SS Covered + SS Armoured + PVC	
N Not Applicable for GDT-R type.	

OPTION
 A Thermowell
 C Colour Band
 D Dual Scale
 L Nil
 S Silicone Oil Filled Case

UNIT
 C Deg C F Deg F

RANGE **

0 to 80	0 to 600
0 to 100	0 to 800
0 to 120	(-) 30 to (+) 50
0 to 160	(-) 20 to (+) 80
0 to 200	(-) 50 to (+) 30
0 to 250	(-) 50 to (+) 50
0 to 250	(-) 80 to (+) 120
0 to 350	(-) 100 to (+) 150
0 to 400	(-) 200 to (+) 50
0 to 500	(-) 200 to (+) 100

CONNECTION			
SIZE	TYPE	MALE / FEMALE	METRIC THREADS
6 1/4"	NT NPT	M Male	18 M - M 18 x 1.5
10 3/8"	BP BSP	F Female	20 M - M 20 x 1.5
15 1/2"	BT BSPT		24 M - M 24 x 1.5
20 3/4"	PF PF		XX - Any other
25 1"	GS Gas		
	NS NPS		

** Ranges mentioned are in °C. Equivalent unit in °F can be provided on request.

The recommendations made in this catalogue are to be used as intended guide. No guarantee of material can be undertaken since other factors may affect the performance. We reserve the right to change the specifications mentioned in this catalogue without any notice as improvements & development is a continuous process at "General". Responsibility of typographical errors is specifically disclaimed.