

Gas Filled Dial Thermometer

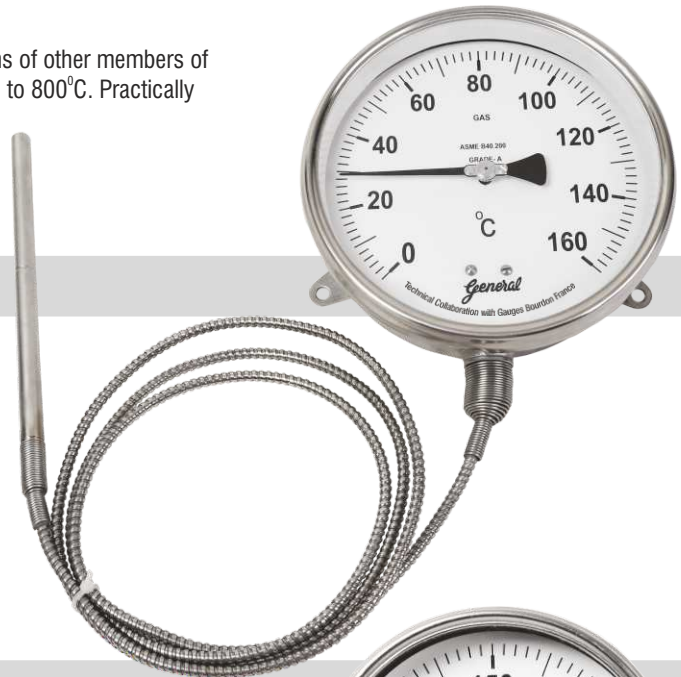
Gas filled Temperature Gauge overcomes most of the limitations of other members of family. It is offered in a very wide temperature range i.e. (-)200 to 800°C. Practically any stem length can be offered and capillary length as long as 30 mtr, without any loss of accuracy. Inert, non hazardous, non toxic 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-68 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 CI. III B
Dial	100 mm / 150mm / 250mm in aluminium, white background, black marking
Case	SS304 / SS316 with bayonet bezel
Protection	Weatherproof to IP-68 (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	SS316 with SS304 / SS316 armouring or SS316 with SS304 / SS316 armouring, with PVC covering
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.



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

- 100** 100 mm
- 150** 150 mm
- 250** 250 mm

CASE

- S4S** SS304
- S6S** SS316

STEM-OD

- S06** 6 mm **S10** 10 mm
- S08** 8 mm **S12** 12 mm

STEM LENGTH

Specify in mm

STEM MATERIAL

- S6S** SS316 **S4S** SS304
- 310** SS310** **600** Inconel 600**

CAPILLARY

- 4AR(*)** SS 316 Capillary, SS 304 Armoured
- 4PV(*)** SS 316 Capillary, SS 304 Armoured+PVC Covered
- 6AR(*)** SS 316 Capillary, SS 316 Armoured
- 6PV(*)** SS 316 Capillary, SS 316 Armoured+PVC Covered
- NIL** Not Applicable for GDT-R type.

* Specify the length of Capillary in Meters.

**Note: Stem material of SS310 is recommended for Temperature 600 Deg. C and Inconel 600 for temperature above 600 Deg.C

OPTION

- TW** Thermowell
- CLB** Colour Band
- DUS** Dual Scale
- L** Nil
- DC2** Silicone Oil Filled Case

UNIT

- DGC** Deg C **DGF** 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

Conn	Code	Size	Code	Type	Code	Male/ Female	Code
Thread	T	1/4"	06	NPS	NS	Male	M F
		3/8"	10	NPT	NT	Female	
		1/2"	15	BSP	BP		
		3/4"	20	BSPT	BT		
		1"	25	JIS-PF	PF		
		M20	M20	JIS-PT	PT		
				Gas	GS		
				R	RR		
				Rp	RP		
				Pitch 1.5		C	

e.g. For 1/2"NPT(M), Code: **T15NTM**
 For M20x1.5 (F), Code: **TM20CF**

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

Sample Model Code: GDT-C-P-150-S4S-S10-400-S6S-4AR(5)-T15NTM-(0-250)-DGC-TW

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.

Skin Type - Gas Filled Dial Thermometer

“General” Skin type Temperature Gauges are designed for measurement of Surface temperature of process lines. These Gauges are available 100 mm & 150 mm Dial sizes. Inert, non hazardous, non toxic nature of the filled system (Nitrogen) makes it virtually ideal choice of all type of industries. Micro-Switch can be provided as per process requirement.

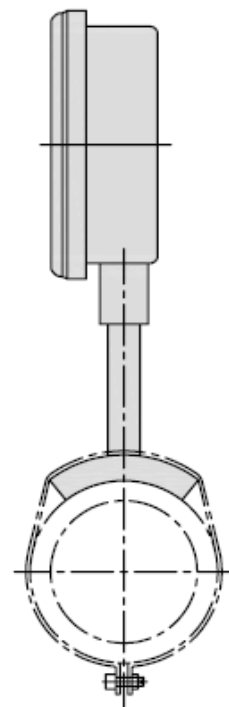
Features

- Suitable for surface temperature measurement
- Use of inert gas - Nitrogen (N₂)
- All SS construction
- Direct mounting or Remote mounting with Capillary
- Fast response
- Non-polluting, environment friendly
- Non-hazardous for the service
- High reliability
- IP-68 protection
- Accuracy $\pm 1\%$ FSD



Specifications

Ref. Standard System	ASME B 40.200, EN 13190 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 as standard (SS316 on request)
Protection	Weatherproof to IP-68
Window	Shatterproof glass
Pointer	Aluminium, black with micrometer adjustment
Sensor / Bulb	SS316 to suit OD of process pipe
Capillary	SS316 with SS304 / SS316 armouring or SS316 with SS304 / SS316 armouring, with PVC covering.
Connection	1/2"NPT (M) adjustable three piece compression fitting in SS304 or SS316
Range	(-) 200°C to 400°C with minimum span of 80°C
Accuracy	$\pm 1\%$ FSD
Over range	125% FSD
Reset	Micrometer Pointer
Optional	Silicon Oil Filled Case (Not Applicable for Gauge with Microswitch) 1SPDT / 2SPDT Microswitch Flame proof (IIA/ IIB/ IIC) enclosure in Die Cast Aluminium (applicable for Remote mounted Gauges with Microswitch only)

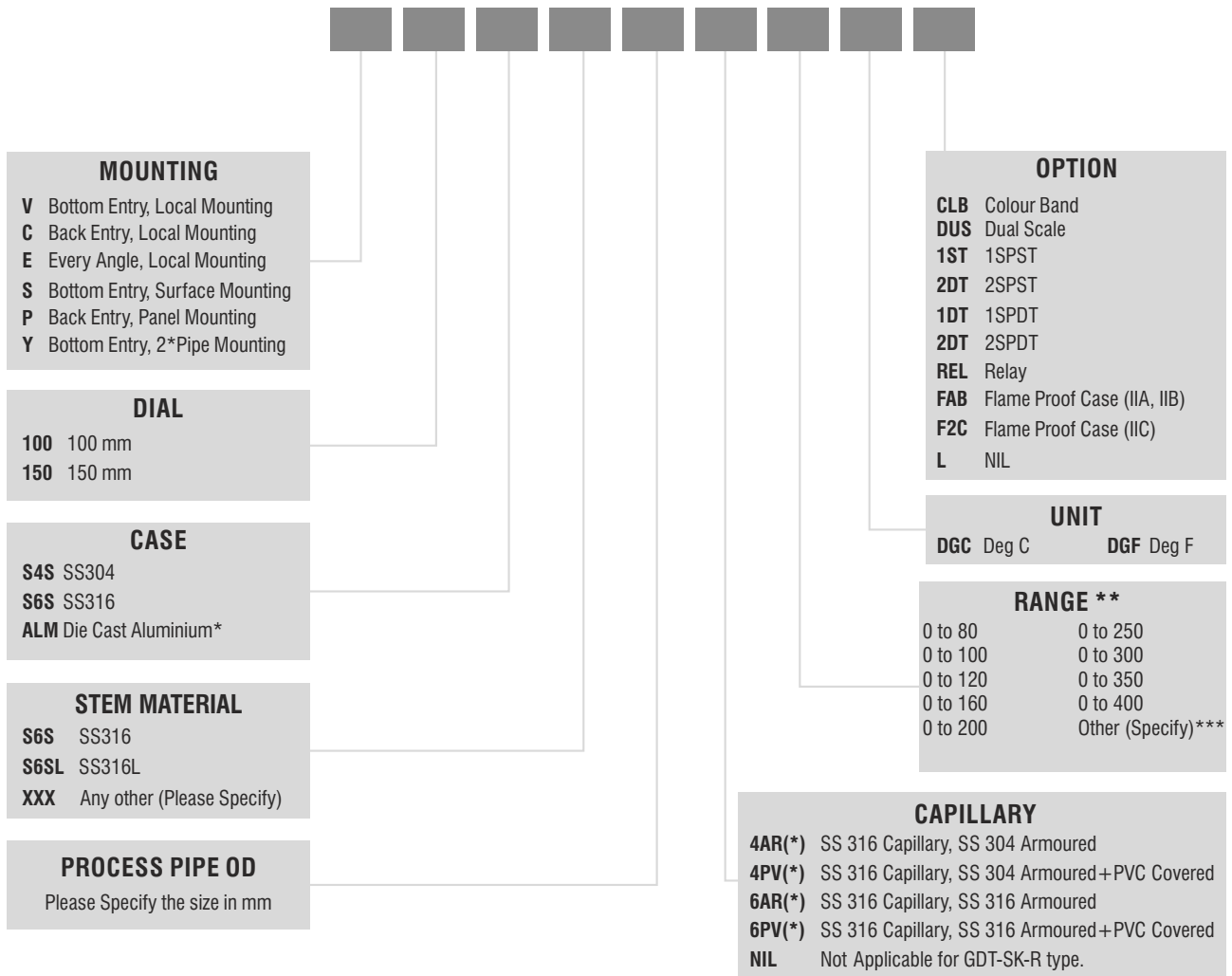


Ordering Information

GDT-SK-R : Rigid stem type

GDT-SK-C : Capillary type

MODEL : GDT-SK-R / GDT-SK-C



* Specify the Capillary length in Meter.

* Die Cast Aluminium Case available in Flameproof version only (for Gauge with Microswitch & Remote mounting)

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

***Compound Ranges with negative temperature also can be provided within the above span

Sample Model Code: GDT-SK-R-V-150-S4S-S6S-150-NIL-(0-250)-DGC-L

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