

# All stainless steel gas actuated thermometer

## Model GTS

Nominal size 100 mm, 115mm or 150 mm  
Accuracy: Class 1 (1%)

### Features

- Rugged stainless steel construction
- Fast response
- Protection IP65, IP66, IP67 and IP68
- High repeatability and small hysteresis
- Dry or liquid filled
- Rigid stem or bulb with capillary

### Ranges

-200 ... 50 °C up to 0 ... 800 °C  
-330 ... 120 °F up to 30 ... 1450 °F

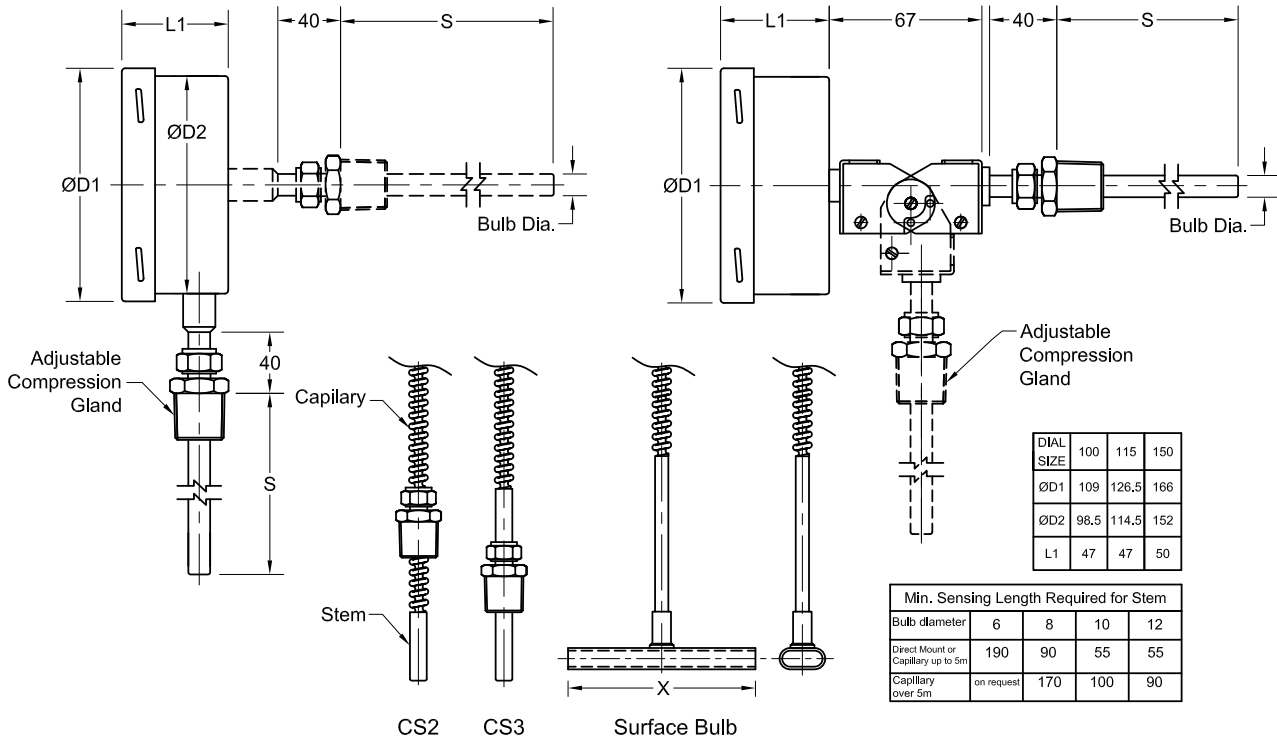
### Applications

Chemical and petrochemical industry  
Machine and apparatus construction  
Food and beverage industry  
Pulp and paper industry



Technical specification	Rigid stem			With capillary																				
	100	115	150	100	115	150																		
Dial size in mm	100	115	150	100	115	150																		
Construction	Cylindrical case with bayonet ring																							
Measuring principle	Inert gas actuated																							
Range in °C	0/60 0/80 0/100 0/120 0/160 0/200 0/250 0/300 0/400 0/500 0/600 0/700 0/800 -10/50 -10/110 -20/40 -20/100 -20/120 -20/180 -30/50 -30/70 -30/170 -40/40 -40/60 -40/160 -50/50 -40/60 -40/160 -50/50 -60/40 -80/40 -100/50 -120/40 -200/50																							
Over temperature limit	Ranges in °F and dual scales on request Max. 130 % F.S. Subjected to Max. 825°C Over temperature																							
Stem or bulb diameter	6 mm, 8 mm, 10 mm, 12mm, others on request																							
Lengths	100 ... 4000 mm, other length on request, min. length depends on bulb diameter																							
Capillary length	N.A.			Max. 30 m																				
Process connection	Plain 1/4" 3/4" 1" BSP / NPT (M), M20x1.5, M24x1.5, M27x2 Fixed, adjustable or with swivel nut																							
Connection location	Back / lower / Every angle																							
Material	<table border="0"> <tr> <td>Connection</td> <td>Stainless steel 316</td> </tr> <tr> <td>Stem</td> <td>Stainless steel 316 (SS 321 for range ≥ 600C )</td> </tr> <tr> <td>Case/ring</td> <td>Stainless steel 304 , optional 316L</td> </tr> <tr> <td>Capillary</td> <td>Stainless steel 316</td> </tr> <tr> <td>Armor</td> <td>Flexible, SS 304, optional PVC covered</td> </tr> <tr> <td>Window</td> <td>Instrument glass, optional laminated safety glass</td> </tr> <tr> <td>Dial</td> <td>Aluminum, black markings on white background</td> </tr> <tr> <td>Pointer</td> <td>Aluminum, black, optional micrometer pointer others on request</td> </tr> <tr> <td>Movement</td> <td>Stainless steel 304</td> </tr> </table>						Connection	Stainless steel 316	Stem	Stainless steel 316 (SS 321 for range ≥ 600C )	Case/ring	Stainless steel 304 , optional 316L	Capillary	Stainless steel 316	Armor	Flexible, SS 304, optional PVC covered	Window	Instrument glass, optional laminated safety glass	Dial	Aluminum, black markings on white background	Pointer	Aluminum, black, optional micrometer pointer others on request	Movement	Stainless steel 304
Connection	Stainless steel 316																							
Stem	Stainless steel 316 (SS 321 for range ≥ 600C )																							
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Window	Instrument glass, optional laminated safety glass																							
Dial	Aluminum, black markings on white background																							
Pointer	Aluminum, black, optional micrometer pointer others on request																							
Movement	Stainless steel 304																							
Accuracy	Class 1 as per EN 13190																							
Protection	IP65 / IP66 / IP67 / IP68																							
Filling liquids	Silicone																							
Weight dry/filled in kg	Depend on dial size length of stem and capillary																							
Accessories, options	Thermowells, dual scales, magnet spring- or inductive contacts, calibration certification																							

### General dimensions in mm



### Order information

Size	Bulb diameter	Length of bulb/stem	Length of capillary	Process connection	Connection size	Connection orientation	Range	Engineering units	Options
(100) 100 mm	(06) 6 mm <sup>1)</sup> (08) 8 mm <sup>1)</sup>	115 to 4000 mm <sup>2)</sup>	(R) Rigid stem	(T) Turning nut	(50) 1/2" BSP (75) 3/4" BSP	(L) Lower (B) Back	0/ 60 0/ 80 0/100 0/120 0/160 0/200 0/250 0/300 0/400 0/500 0/600 <sup>3)</sup> 0/700 <sup>3)</sup> 0/800 <sup>3)</sup>	°C	(NH) Tagging wired (DA) Dial marking (CS) Dual scale (SG) Safety glass (MP) Micro pointer (FX) Front panel (FW) Surface plate (UF) U-clamp (TM) 2" pipe mounting bracket
(115) 115mm	(10) 10 mm		(A) Capillary SS armored*	(CS2) Adjustable union connection sliding on capillary	(50N) 1/2" NPT (75N) 3/4" NPT	(E1) Every angle <sup>4)</sup>	-10/ 50 -10/110 -20/ 40 -20/100 -20/120 -20/180 -30/ 50 -30/ 70 -30/170 -40/ 40 -40/ 60 -40/160		(EC) Contact type and function (see EC.1) (GR) Glycerin (GV) Silicon (YW) 316L housing
(150) 150mm	(12) 12 mm		(P) Capillary SS armored with PVC covering*	(CS3) Adjustable union connection sliding on stem	(M20) M20x1.5 (M32) M32x2		-50/ 50 -60/ 40 -80/ 40 -100/ 50 -120/ 40 -200/ 50		(EZ) External zero adjustment (STB) Surface Temperature type bulb
			* Max length 30m, specify length in m EG. A1.5 =A with 1.5m	others on request	others on request			°F and dual scale on request	other options on request

1) Range up to 500 °C only 2) Minimum stem length depends on stem diameter refer above table

3) Stem material will be SS321. Only with bulb diameter 10 mm and 12mm. For rigid stem type minimum length 250mm.

4) for rigid stem type only.

### How to order

Size	Type	Bulb diameter	Length of bulb/stem	Length of capillary	Process connection	Connection size	Connection orientation	Range	Engineering unit	Options
100	GTS	08	125	R	CS3	50N	L	0/100	°C	FW

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