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
- High repeatability and small hysteresis
- Dry or liquid filled
- Rigid stem or bulb with capillary

Ranges

-50 ... 50 °C up to 0 ... 600 °C
-60 ... 120 °F up to 30 ... 1100 °F

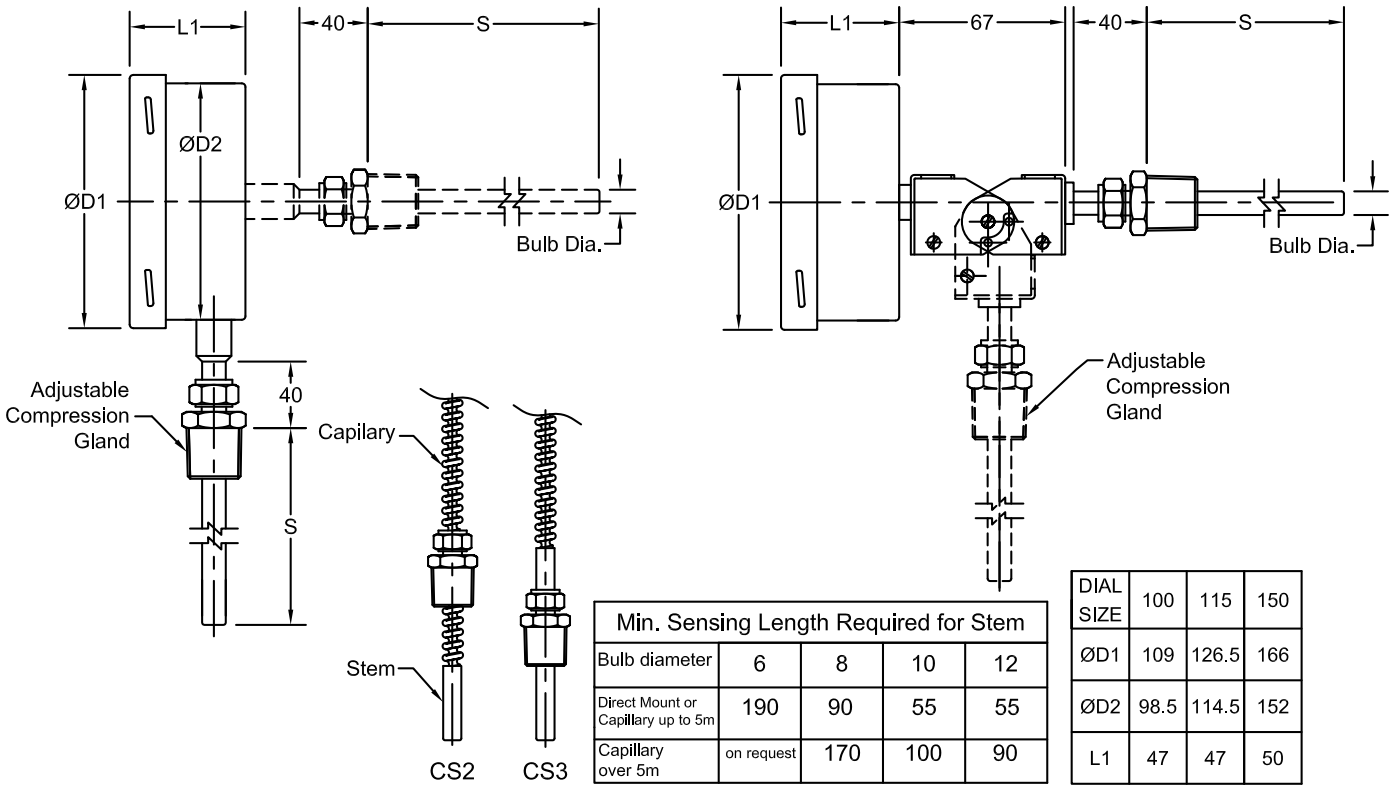
Applications

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

Technical specification	Rigid stem			With capillary		
Dial size in mm	100	115	150	100	115	150
Construction	Cylindrical case with bayonet ring					
Measuring principle Range in °C Over temperature limit	Inert gas actuated 0/60 0/80 0/100 0/120 0/160 0/200 0/250 0/300 0/400 0/500 0/600 -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 Ranges in °F and dual scales on request Max. 130 % F.S. Subjected to Max. 800°C Over temperature					
Stem or bulb diameter	6 mm, 8 mm,10 mm, 12mm					
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, knee joint bendable (180°), knee joint bendable (360°)					
Material Connection Stem Case/ring Capillary Armor Window Dial Pointer Movement	 Stainless steel 316 Stainless steel 316L Stainless steel 304 , optional 316L Instrument glass, optional laminated safety glass Aluminum, black markings on white background Aluminum, black, optional micrometer pointer others on request Stainless steel 304			 Stainless steel 316 Flexible, SS 304, optional PVC covered		
Accuracy	Class 1					
Protection	IP65					
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					

All specifications are subject to change without notice.

General dimensions in mm



Min. Sensing Length Required for Stem				
Bulb diameter	6	8	10	12
Direct Mount or Capillary up to 5m	190	90	55	55
Capillary over 5m	on request	170	100	90

DIAL SIZE	100	115	150
ØD1	109	126.5	166
ØD2	98.5	114.5	152
L1	47	47	50

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 **(115)** 115mm **(150)** 150mm	**(06)** 6 mm **(08)** 8 mm **(10)** 10 mm **(12)** 12 mm	**115 to 4000 mm**[2]	**(R)** Rigid stem **(A)** Capillary SS armored[1] **(P)** Capillary SS armored with PVC covering[1] 1) Max length 30m, specify length in m EG. A1.5 =A with 1.5m	**(T)** Turning nut **(CS2)** Adjustable union connection sliding on capillary **(CS3)** Adjustable union connection sliding on stem others on request	**(50)** 1/2" BSP **(75)** 3/4" BSP **(10)** 1" BSP **(50N)** 1/2" NPT **(75N)** 3/4" NPT **(10N)** 1" NPT **(M20)** M20x1.5 **(M32)** M32x2 others on request	**(L)** Lower **(B)** Back **(E1)** Every angle	**0/ 60** **0/ 80** **0/100** **0/120** **0/160** **0/200** **0/250** **0/300** **0/400** **0/500** **0/600** **-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**	**°C** °F and dual scale on request	**(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 **(EC)** Contact type and function (see EC.1) **(GR)** Glycerin (max. up to 100˚C) **(GV)** Silicon (max. up to 300˚C) **(YW)** 316L housing other options on request

2) Minimum stem length depends on stem diameter refer above table

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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