

# Product data sheet

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## GT040 - GAS FILLED DIAL THERMOMETER



### Product features:

- Gas actuated measuring principle, providing fast response.
- Temperature ranges up to 800°C.
- Capillary or rigid stem types available
- Dry or liquid filled.
- SS 316 stem/capillary allowing compatibility with a wide range of process media
- Can be supplied with or without thermowells

### Applications:

- Oil and gas
- Chemical and petrochemical
- Water and wastewater
- Pharmaceutical
- Food and beverage

### Standard product specifications:

<b>Dial diameters</b>	100mm, 115mm & 150mm
<b>Design</b>	BS EN 13190
<b>Accuracy class</b>	Class 1
<b>Ranges</b>	-200°C to +800°C
<b>Stem length</b>	Up to 4 metres
<b>Stem diameter</b>	6.3mm, 8mm, 10mm & 12mm
<b>Capillary length</b>	Up to 30 metres
<b>Case</b>	Stainless steel 304 (optional SS 316L)
<b>Process connection</b>	1/4", 3/8", 1/2" BSP/NPT/BSPT fixed or sliding union (others available on request)
<b>Connection orientation</b>	Bottom or centre back
<b>Capillary material</b>	Stainless steel 316 with SS 304 armour
<b>Connection material</b>	Stainless steel 316
<b>Stem material</b>	Stainless steel 316
<b>Bezel</b>	Stainless steel 304 bayonet bezel
<b>Measuring principle</b>	Gas actuated
<b>Movement</b>	Stainless steel 304
<b>Window</b>	Laminated safety glass
<b>Pointer</b>	Black aluminium, micro adjustable
<b>Filling</b>	Dry, Glycerine, or silicone filled
<b>Ingress protection</b>	IP 67

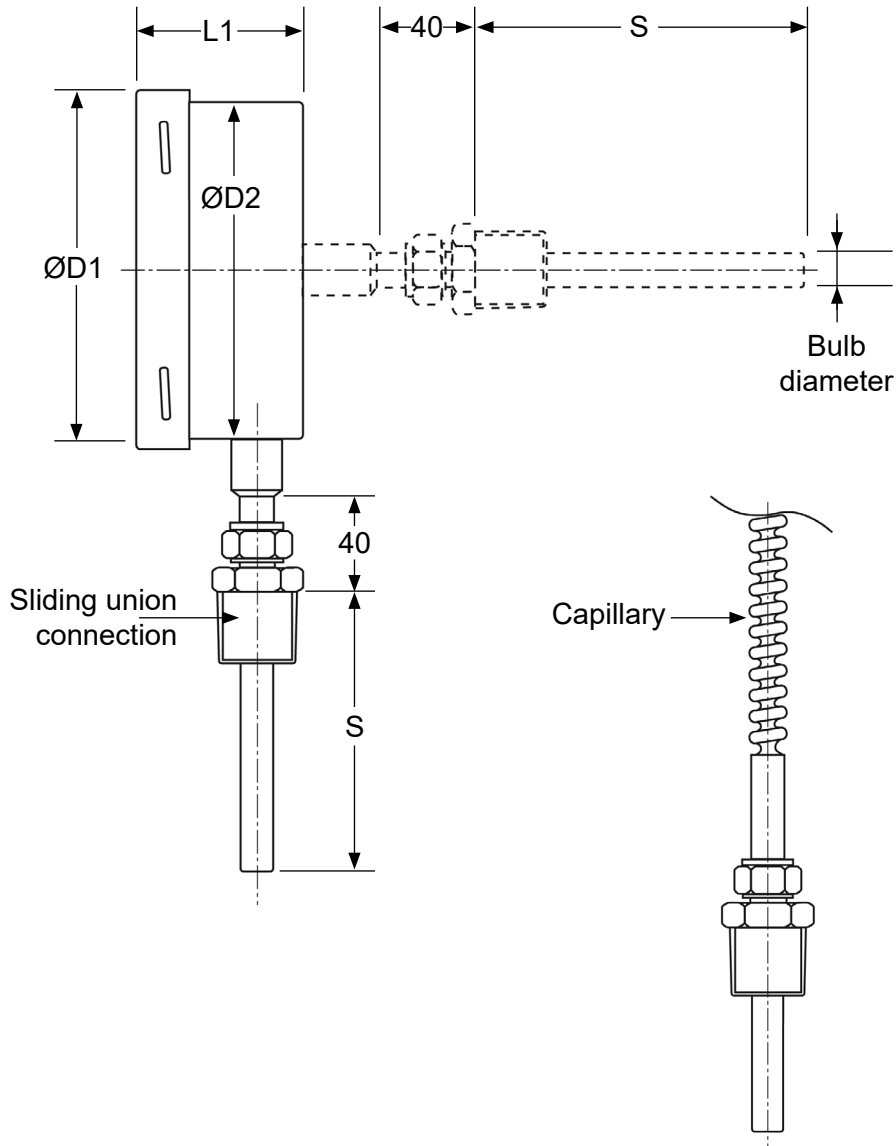
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## Dimensions (in mm):



Dial size	100mm diameter	115mm diameter	150mm diameter
ØD1	109mm	126.5mm	166mm
ØD2	98.5mm	114.5mm	152mm
L1	47mm	47mm	50mm

Min. sensing length required for stem				
Bulb diameter	6mm	8mm	10mm	12mm
Direct mount or capillary up to 5m	190mm	90mm	55mm	55mm
Capillary over 5m	on request	170mm	100mm	90mm

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## Product numbers:

All GT040 thermometers are ordered to specific customer specifications. Please use below matrix to create your unique ordering product reference, using the values in bold.

Make	Model	Type	Dial diameter	Range	Units	Stem length	Stem diameter	Capillary length	Connection size/type	Connection orientation	Filling	Extras
Brannan (BRN)	GT040 (GT40)	Rigid stem (R)	100mm (100)	-200°C (-328°F) up to +800°C (1472°F)	°C outer/ °F inner (CF)	Up to 4000mm. Specify in mm. eg; for 100mm, please specify (100)	6.3mm (6)	Up to 30m. Specify length in metres. eg; for 1.6m please specify (1.6)	Plain stem (0) <u>Fixed stem*</u> 1/2" BSP (7) 1/2" NPT (8) 3/8" BSP (5) 3/8" NPT (6) 1/4" BSP (3) 1/4" NPT (4) 1/4" BSPT (10) 3/8" BSPT (11) 1/2" BSPT (12)	Bottom (BO)  Centre back (CB)	Dry – no filling (D)  Glycerine (G)  Silicone (S)	Materials Test Certificate (MTC)  Front flange (FF)  Back flange (BF)  SS316L Thermowell (TW316L)
		Capillary type (C)	115mm (115) 150mm (150)	Specify as, eg; for -20 to +120 (-20+120)	°F outer/ °C inner (FC)  °C only (C)  °F only (F)		8mm (8) 10mm (10) 12mm (12)					
<small>* For rigid stem type only.</small>												

## Order example:

Make	Model	Type	Dial diameter	Range	Units	Stem length	Stem diameter	Capillary length	Connection size/type	Connection orientation	Filling	Extras
BRN	GT40	C	100	-20+120	CF	100	12	3	S8	BO	D	BF

Product reference: BRNGT40/C/100/-20+120/CF/100/12/3/S8/BO/D/BF