

# Product data sheet

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## BT030 - STAINLESS STEEL BIMETAL THERMOMETERS (CLASS 2)



### Product features:

- Thermometer with heavy duty stainless steel 304 case and bayonet style bezel
- Choice of temperature ranges, dial diameters and stem lengths
- Back entry, bottom entry or adjustable angle connections
- Recalibration screw (back connection and adjustable connection only)
- Stainless steel pockets can be supplied as extra.  
Use of a thermowell (pocket) is always recommended

### Applications:

- Wide range of applications including general industrial process, ventilation, heating and air conditioning, water/wastewater.

### Standard product specifications:

<b>Dial diameters</b>	63mm, 75mm, 100mm, 125mm & 150mm
<b>Design</b>	BS EN 13190 / ASME B40.200 Compliant
<b>Accuracy class</b>	2
<b>Ranges</b>	-40 to +650°C&F
<b>Case</b>	Stainless steel AISI 304
<b>Bezel</b>	Stainless steel AISI 304 - bayonet
<b>Connection</b>	Stainless steel 304, size as requested
<b>Stem</b>	Stainless steel 304 (316 optional)
<b>Stem length</b>	min. 63mm, max. 1000mm
<b>Stem diameter</b>	6.3mm, 8mm, 10mm or 12mm
<b>Sensor mechanism</b>	Bimetal coil
<b>Window</b>	Glass (laminated safety glass optional)
<b>Pointer</b>	Black aluminium
<b>Dial</b>	Black numbering on white background
<b>Filling</b>	Dry (contact us for silicone filling option)
<b>Protection</b>	IP 65 (contact us for IP 67/IP68 options)
<b>Calibration</b>	Certificate traceable to recognised national standard or statement of conformity, if required

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### Note:

Loosen the screws on either side of the adjustable bracket before gently angling thermometer as required.  
Tighten screws again before use.  
See notes on page 4 of this document.

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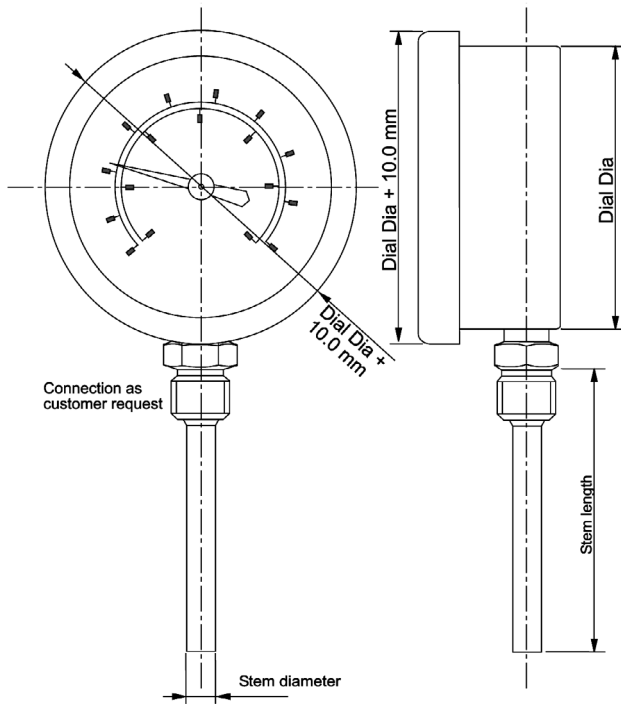
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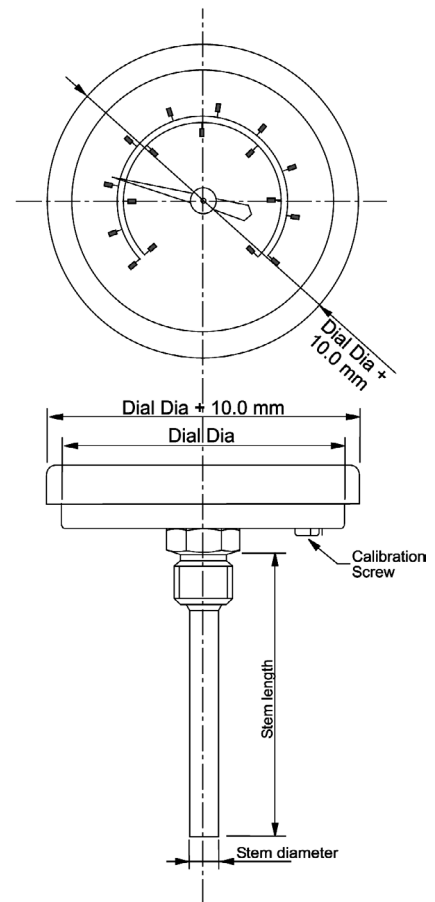
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## Dimensions:

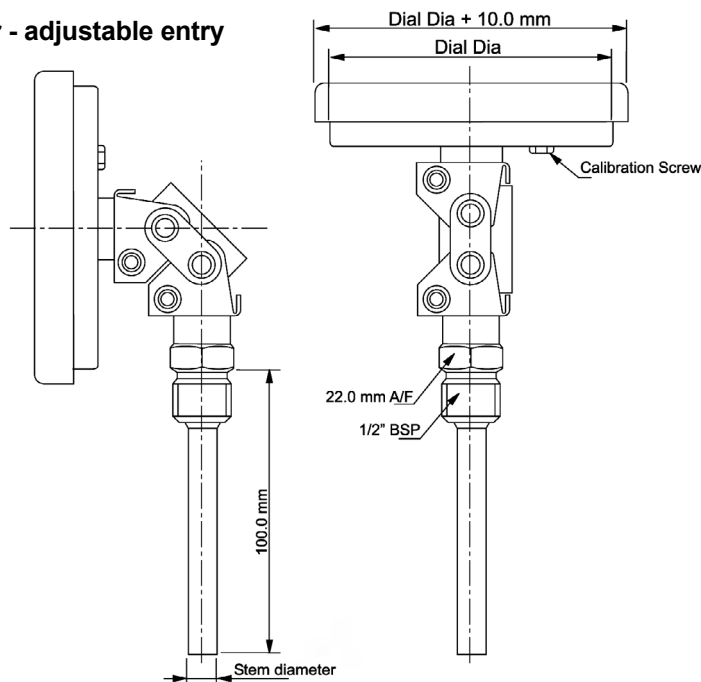
### Dial thermometer - bottom entry




### Dial thermometer - back entry



### Dial thermometer - adjustable entry



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## Product numbers:

All BT030 dials are ordered to specific customer specifications. Please use below matrix to create your unique ordering product reference, using the values in bold.

Make	Model	Dial diameter	Range	Units	Stem length	Stem diameter	Connection size/type	Connection orientation	Extras
Brannan (BRN)	BT030 (BT30)	63mm (63)	Celsius: <b>-40+60</b> <b>-30+70</b>	°C outer / °F inner (CF)	<b>63mm to 1000mm</b>	6.3mm (6)	Plain stem (0) Fixed 1/2" BSP (7)	Bottom (BO)	Laminated safety glass (LG)
		75mm (75)	<b>-20+60</b> <b>-20+120</b>	°F outer / °C inner (FC)		8mm (8)	Fixed 1/2" NPT (8) Fixed 3/8" BSP (5)	Centre back (CB)	SS316 stem (316)
		100mm (100)	<b>0+100</b> <b>0+120</b> <b>0+150</b> <b>0+160</b>	°C only (C)		10mm (10)	Fixed 3/8" NPT (6) Fixed 1/4" BSP (3) Fixed 1/4" NPT (4)	Adjustable angle (AD)	SS304 thermowell (TW304)
		125mm (125)	<b>0+200</b> <b>0+250</b> <b>0+300</b> <b>0+400</b> <b>0+500</b> <b>0+600</b> <b>+100+550</b> <b>+50+650</b>	°F only (F)		12mm (12)	Fixed 1/4" BSPT (10) Fixed 3/8" BSPT (11) Fixed 1/2" BSPT (12)		SS316 thermowell (TW316)
		160mm (160)	Fahrenheit: <b>-40+120</b> <b>-40+160</b> <b>0+140</b> <b>0+200</b> <b>0+250</b> <b>+50+300</b> <b>+50+400</b> <b>+50+550</b> <b>+150+750</b> <b>0+800</b> <b>+20+1000</b> <b>+50+750</b>				Sliding union 1/2" BSP (S7) Sliding union 1/2" NPT (S8) Sliding union 3/8" BSP (S5) Sliding union 3/8" NPT (S6) Sliding union 1/4" BSP (S3) Sliding union 1/4" NPT (S4) Sliding union 1/4" BSPT (S10) Sliding union 3/8" BSPT (S11) Sliding union 1/2" BSPT (S12)		
			NB. Other ranges available on request				NB. Others available on request		NB. When more than one extra is required, please separate each code with a hyphen when building your product reference

## Order example:

Make	Model	Dial diameter	Range	Units	Stem length	Stem diameter	Connection size/type	Connection orientation	Extras
BRN	BT30	100	0+120	CF	200	10	7	AD	LG-TW304

Product reference: BRNBT30/100/0+120/CF/200/10/7/AD/LG-TW304

## Calibration product numbers:

Calibration	No of points	Product number
Traceable to National Standards	1pt	49/099/0
	3pt	49/101/0
	4pt	49/104/0
	5pt	49/105/0

**Measurement for life.**



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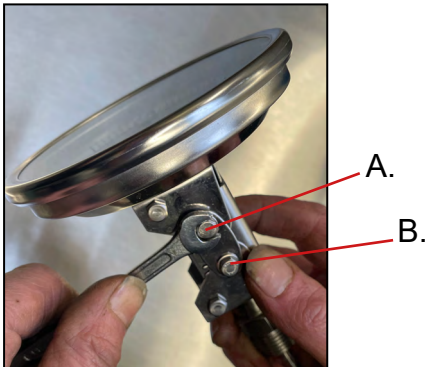
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**Please read before attempting to change angle of adjustable angle bimetal thermometers.**

## Setting the connection angle



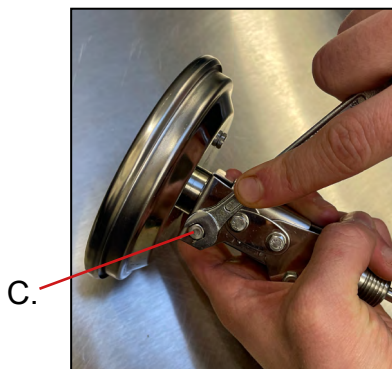
To adjust the thermometer face display angle, firstly, loosen off screws A. & B. on either side of the adjustable bracket.



Set the thermometer face to the required angle. Retighten the screws.

## Face alignment

Before rotating the thermometer face ensure the thermometer is set in the back connection alignment. Never rotate the thermometer face when the bracket is set in an angled alignment.



Loosen off the screws C. on either side of the adjustable bracket.



Holding both the thermometer face and the adjustable bracket, rotate the thermometer face to the desired position. No more than minimum force should be required. Retighten the screw(s).