

BT041

General industrial stainless steel slim case bimetal thermometer (Class 1)



Product features:

- Thermometer with stainless steel 304 case and crimped bezel
- Anti-parallax dial that reduces error
- Choice of temperature ranges, dial diameters and stem lengths
- Back entry, bottom entry or adjustable angle connections
- Recalibration screw
- Stainless steel pockets can be supplied as extra.
Use of a thermowell (pocket) is always recommended
- **Brannan** quality and accuracy

Applications:

- Ventilation, heating and air conditioning
- Water and wastewater
- General industrial process

Standard product specifications:

BT041	
Standards & categories	
Design	ASME B40.200 Compliant
Dial construction	
Case	Stainless steel AISI 304
Bezel	Stainless steel AISI 304 - crimped
Connection orientation	Bottom, centre back or adjustable angle
Connection material	Stainless steel
Stem material	304 stainless steel (316 also available on request)
Pointer	Black aluminium
Sensor mechanism	Bimetal coil
Window	Glass
Ranges & parameters	
Dial diameters	75mm (3"), 100mm (4"), 125mm (5") & 150mm (6")
Stem length	100mm (50mm, 150mm, 200mm, 250mm or 300mm available on request)
Ranges	-50 to +150°C and -60 to +300°F through to 0 to +600°C and +32 to +1110°F
Thread size	1/2" BSP (NPT or BSPT on request)
Accuracy class	+/-1% (ASME B40.200 Grade A)
Filling	Dry (glycerine filled available on request)
Protection	IP 67
Optional extras	
Calibration	Certificate traceable to recognised national standard or statement of conformity if required
Accessories	Pockets, self sealing test plugs

Note:

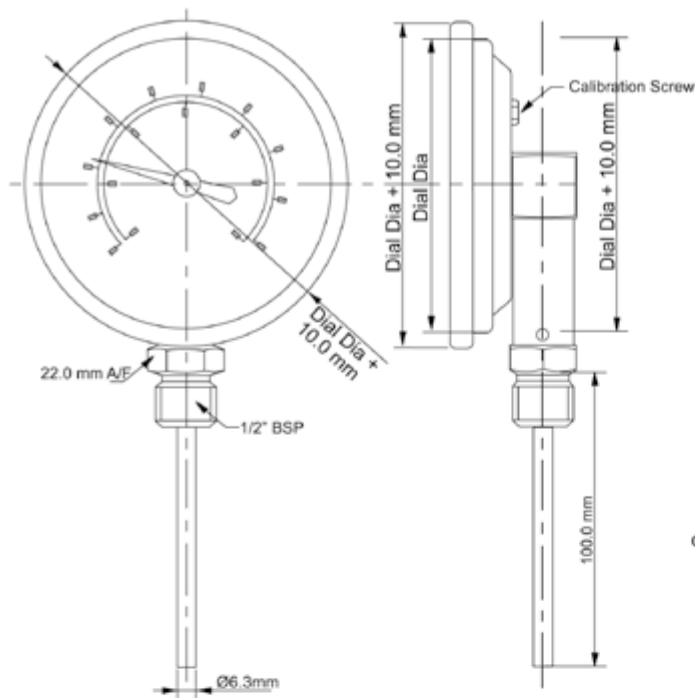
Loosen the screws on either side of the adjustable bracket before gently angling thermometer as required.
Tighten screws again before use.
See notes on page 4 of this document.

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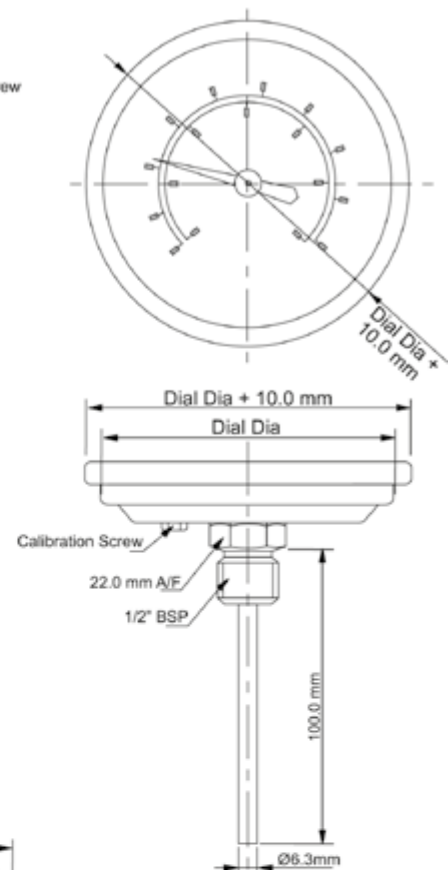
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Dimensions:

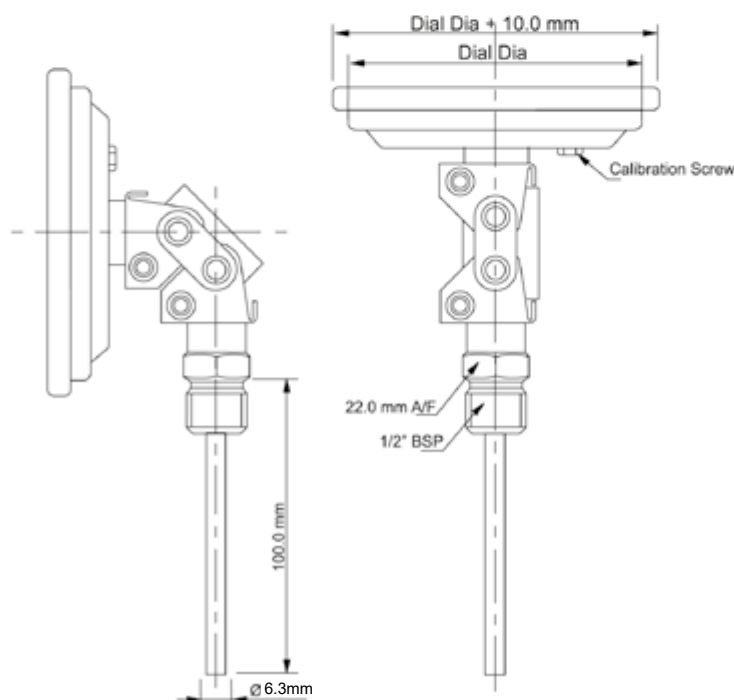
Bottom entry



Back entry



Adjustable entry



Weights & packaging dimensions available on request

Measurement for life.



Brannan

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Standard product numbers:

The following are our standard product numbers for 100mm diameter, adjustable angle thermometers. Special products can be supplied on request, for example, customer own branding, alternative connection, range, etc. Minimum order quantities apply. Please contact our Sales Team for further information.

Thermometer product numbers:

Range	Stem length	Thermometer product number	
		1/2" BSP (M)	1/2" NPT (M)
-10 to +60°C&F	63mm	74/225/0	74/225/1
0 to +120°C&F		74/227/0	74/227/1
-10 to +60°C&F	100mm	74/226/0	74/226/1
0 to +120°C&F		74/228/0	74/228/1
-10 to +60°C&F	150mm	74/235/0	74/235/1
0 to +120°C&F		74/237/0	74/237/1
-10 to +60°C&F	225mm	74/236/0	74/236/1
0 to +120°C&F		74/238/0	74/238/1

Corresponding thermowell product numbers:

Stem length	Thermowell material	Corresponding thermowell product number (M x F)	
		1/2" BSP	1/2" NPT
63mm	Brass	74/233/0	74/233/6
	SS304	74/216/1	74/216/6
	SS316	74/234/0	74/234/6
100mm	Brass	74/233/1	74/233/7
	SS304	74/216/0	74/216/7
	SS316	74/234/1	74/234/7
150mm	Brass	74/233/2	74/233/8
	SS304	74/216/2	74/216/8
	SS316	74/234/2	74/234/8
225mm	Brass	74/233/3	74/233/9
	SS304	74/216/3	74/216/9
	SS316	74/234/3	74/234/9

All thermometer stem diameter. 6.3mm

All thermowell to fit 6.3mm diameter stem

Please note: These instruments are not supplied with thermowells (pockets) as standard. If thermowell is required, this must be requested at time of ordering.

Calibration product numbers:

Calibration	No of points	Product number
UKAS	3pt	49/070/0
	1pt	49/099/0
Traceable to National Standards	3pt	49/101/0
	4pt	49/104/0
	5pt	49/105/0

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Product numbers:

All BT041 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 dia.	Range		Units	Stem length	Stem dia.	Connection size/type	Connection orientation	Extras		
Brannan (BRN)	BT041 (BT41)	75mm (75)	°C:	°F:	°C outer / °F inner (CF)	63mm to 1000mm	6.3mm (6)	Plain stem (0)	Bottom (BO)	SS304 thermowell (TW304)		
			-50+150	-60+300				Fixed 1/2" BSP (7)				
		100mm (100)	-50+100	-60+212	Fixed 1/2" NPT (8)	Centre back (CB)						
			-50+50	-60+120	Fixed 3/8" BSP (5)		SS316L thermowell (TW316L)					
		125mm (125)	-40+40	-40+100	Fixed 3/8" NPT (6)	Adjustable angle (AD)						
			-40+60	-40+140	Fixed 1/4" BSP (3)							
		150mm (150)	-40+160	-40+320	Fixed 1/4" NPT (4)		Glycerine filling (G)					
			-30+50	-20+120	Fixed 1/4" BSPT (10)							
			-30+70	-20+160	Fixed 3/8" BSPT (11)							
			-20+40	+0+100	Fixed 1/2" BSPT (12)							
			-20+60	+0+140	Sliding union 1/2" BSP (S7)							
			-20+180	+0+350	Sliding union 1/2" NPT (S8)							
			-10+50	+10+120	Sliding union 3/8" BSP (S5)							
			-10+110	+10+230	Sliding union 3/8" NPT (S6)							
			0+50	+32+120	Sliding union 1/4" BSP (S3)							
			0+60	+32+140	Sliding union 1/4" NPT (S4)							
			0+80	+32+180	Sliding union 1/4" BSPT (S10)							
			0+100	+32+212	Sliding union 3/8" BSPT (S11)							
			0+120	+32+250	Sliding union 1/2" BSPT (S12)							
			0+150	+32+300								
			0+160	+32+320								
			0+200	+32+400								
			0+250	+32+500								
			0+300	+32+570								
			0+400	+32+750								
			0+450	+32+840								
			0+500	+32+930								
			0+550	+32+1000								
			0+600	+32+1110								
		NB. Others available on request								* Bottom connection not for 63mm.	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 dia.	Range	Units	Stem length	Stem dia.	Connection size/type	Connection orientation	Extras
BRN	BT41	100	-50+150	CF	200	10	7	AD	TW304

Product reference: BRNBT41/100/-50+150/CF/200/10/7/AD/TW304

Please note: These instruments are not supplied with thermowells (pockets) as standard. If thermowell is required, this must be added in the extras column, ie TW304.

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

Setting the connection angle



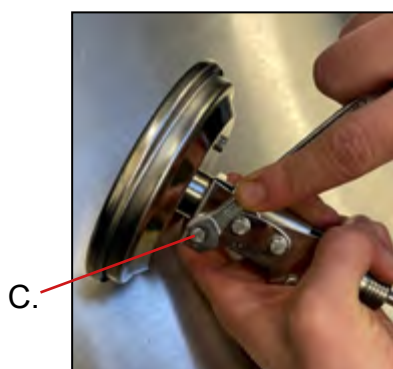
To adjust the thermometer
face display angle,
firstly, loosen off screws
A. & B. on either side of
the adjustable bracket.



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).