

# Product data sheet

✉ [sales@brannan.co.uk](mailto:sales@brannan.co.uk)

☎ +44 (0)1946 816600

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## XT045 - STAINLESS STEEL CASED LIQUID EXPANSION THERMOMETER WITH CAPILLARY



### Features:

- Weatherproof capillary thermometer with stainless steel case
- Back flange for surface mounting
- High quality liquid expansion measuring system
- Choice of dial diameters
- Supplied complete with stainless steel pocket or sliding union
- Wide choice of temperature ranges and capillary lengths
- **Brannan** quality and accuracy
- For outdoor and high humidity installations
- Wide range of associated accessories available (see Accessories section of this catalogue)

### Standard product specifications:

Dial diameters	100mm & 150mm
Design	BS EN 13190
Accuracy class	2
Ranges	-40 to +40°C&F through to 0 to +250°C&F
Case	304 Stainless steel case, bezel and back flange
Seal	74 shore D polyurethane
Connection	1/2" BSP bottom connection
Stem lengths	140mm, 200mm & 250mm
Pocket lengths	63mm, 100mm & 150mm
Capillary	1.5m, 3m & 5m stainless interlocking (plastic coated bronze also available for temperature ranges up to 120°C)
Sensor mechanism	Liquid expansion (Kerosene filling)
Window	Glass
Pointer	Black plastic
Filling	Dry
Operating temperature	0 to +40°C (higher or lower temperatures can cause indication errors)
Storage temperature	-40 to +60°C
Protection	IP 67
Calibration	Certificate traceable to recognised national standard or statement of conformity, if required

Weights and packaging dimensions on request

Measurement for life.



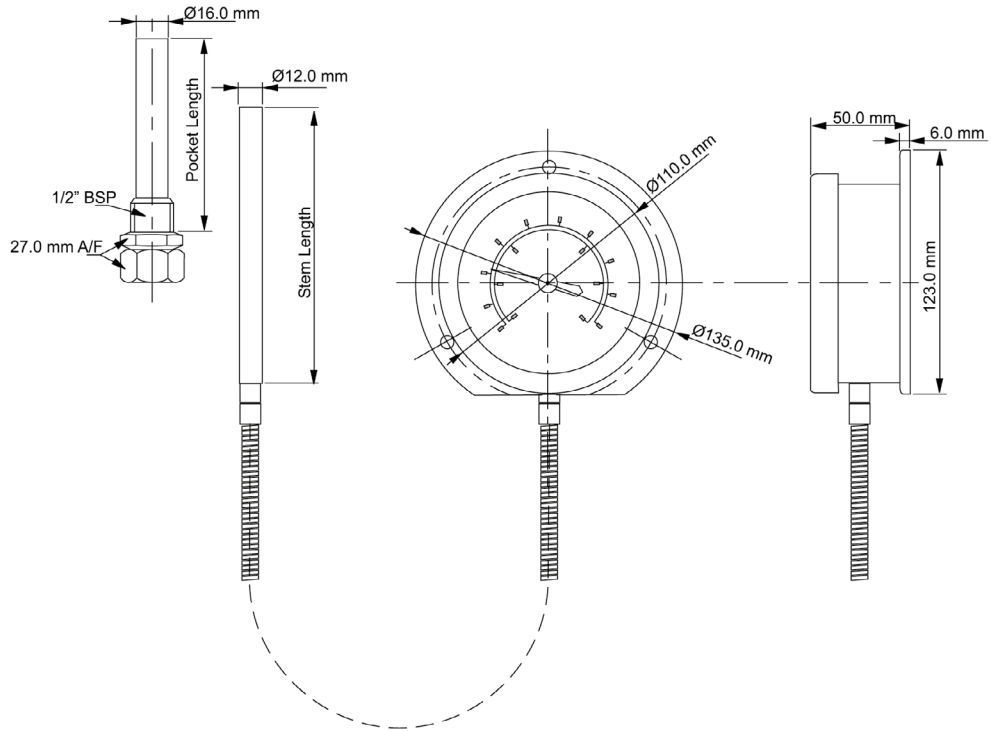
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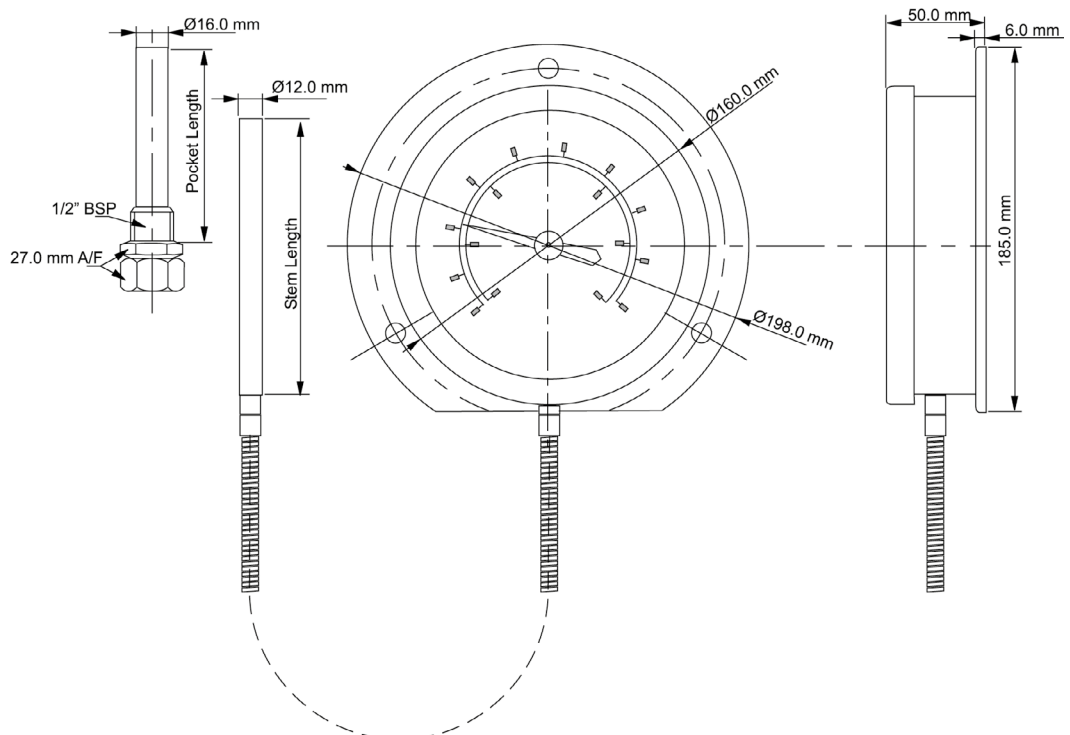
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## Dimensions: 100mm Dial thermometer - bottom entry




## 150mm Dial thermometer - bottom entry



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## Standard Product numbers:


The following are our standard product numbers for dial thermometers supplied complete with pocket or sliding union (no pocket). Special products can be supplied on request, for example, customer own branding, alternative pocket length, range, etc. Minimum order quantities apply. Please contact our Sales Team for further information.

100mm Diameter Dial with 1.5m Capillary - Stem(S) Length / Pocket(P) Length							
Range	With Pocket				With Sliding Union		
	S=140mm P=63mm	S=140mm P=100mm	S=200mm P=150mm	S=250mm P=150mm	S=140mm	S=200mm	S=250mm
-40 to +40°C only	302/621/0	302/621/1	302/621/2	302/621/3	312/621/1	312/621/2	312/621/3
-40 to +40°C&F	302/622/0	302/622/1	302/622/2	302/622/3	312/622/1	312/622/2	312/622/3
-20 to +60°C only	302/623/0	302/623/1	302/623/2	302/623/3	312/623/1	312/623/2	312/623/3
-20 to +60°C&F	302/624/0	302/624/1	302/624/2	302/624/3	312/624/1	312/624/2	312/624/3
0 to +120°C only	302/625/0	302/625/1	302/625/2	302/625/3	312/625/1	312/625/2	312/625/3
0 to +120°C&F	302/626/0	302/626/1	302/626/2	302/626/3	312/626/1	312/626/2	312/626/3
0 to +160°C only	302/627/0	302/627/1	302/627/2	302/627/3	312/627/1	312/627/2	312/627/3
0 to +160°C&F	302/628/0	302/628/1	302/628/2	302/628/3	312/628/1	312/628/2	312/628/3
0 to +200°C only	302/629/0	302/629/1	302/629/2	302/629/3	312/629/1	312/629/2	312/629/3
0 to +200°C&F	302/630/0	302/630/1	302/630/2	302/630/3	312/630/1	312/630/2	312/630/3
0 to +250°C only	302/631/0	302/631/1	302/631/2	302/631/3	312/631/1	312/631/2	312/631/3
0 to +250°C&F	302/632/0	302/632/1	302/632/2	302/632/3	312/632/1	312/632/2	312/632/3

100mm Diameter Dial with 3m Capillary - Stem(S) Length / Pocket(P) Length							
Range	With Pocket				With Sliding Union		
	S=140mm P=63mm	S=140mm P=100mm	S=200mm P=150mm	S=250mm P=150mm	S=140mm	S=200mm	S=250mm
-40 to +40°C only	303/621/0	303/621/1	303/621/2	303/621/3	313/621/1	313/621/2	313/621/3
-40 to +40°C&F	303/622/0	303/622/1	303/622/2	303/622/3	313/622/1	313/622/2	313/622/3
-20 to +60°C only	303/623/0	303/623/1	303/623/2	303/623/3	313/623/1	313/623/2	313/623/3
-20 to +60°C&F	303/624/0	303/624/1	303/624/2	303/624/3	313/624/1	313/624/2	313/624/3
0 to +120°C only	303/625/0	303/625/1	303/625/2	303/625/3	313/625/1	313/625/2	313/625/3
0 to +120°C&F	303/626/0	303/626/1	303/626/2	303/626/3	313/626/1	313/626/2	313/626/3
0 to +160°C only	303/627/0	303/627/1	303/627/2	303/627/3	313/627/1	313/627/2	313/627/3
0 to +160°C&F	303/628/0	303/628/1	303/628/2	303/628/3	313/628/1	313/628/2	313/628/3
0 to +200°C only	303/629/0	303/629/1	303/629/2	303/629/3	313/629/1	313/629/2	313/629/3
0 to +200°C&F	303/630/0	303/630/1	303/630/2	303/630/3	313/630/1	313/630/2	313/630/3
0 to +250°C only	303/631/0	303/631/1	303/631/2	303/631/3	313/631/1	313/631/2	313/631/3
0 to +250°C&F	303/632/0	303/632/1	303/632/2	303/632/3	313/632/1	313/632/2	313/632/3

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100mm Diameter Dial with 5m Capillary - Stem(S) Length / Pocket(P) Length							
Range	With Pocket				With Sliding Union		
	S=140mm P=63mm	S=140mm P=100mm	S=200mm P=150mm	S=250mm P=150mm	S=140mm	S=200mm	S=250mm
-40 to +40°C only	304/621/0	304/621/1	304/621/2	304/621/3	314/621/1	314/621/2	314/621/3
-40 to +40°C&F	304/622/0	304/622/1	304/622/2	304/622/3	314/622/1	314/622/2	314/622/3
-20 to +60°C only	304/623/0	304/623/1	304/623/2	304/623/3	314/623/1	314/623/2	314/623/3
-20 to +60°C&F	304/624/0	304/624/1	304/624/2	304/624/3	314/624/1	314/624/2	314/624/3
0 to +120°C only	304/625/0	304/625/1	304/625/2	304/625/3	314/625/1	314/625/2	314/625/3
0 to +120°C&F	304/626/0	304/626/1	304/626/2	304/626/3	314/626/1	314/626/2	314/626/3
0 to +160°C only	304/627/0	304/627/1	304/627/2	304/627/3	314/627/1	314/627/2	314/627/3
0 to +160°C&F	304/628/0	304/628/1	304/628/2	304/628/3	314/628/1	314/628/2	314/628/3
0 to +200°C only	304/629/0	304/629/1	304/629/2	304/629/3	314/629/1	314/629/2	314/629/3
0 to +200°C&F	304/630/0	304/630/1	304/630/2	304/630/3	314/630/1	314/630/2	314/630/3
0 to +250°C only	304/631/0	304/631/1	304/631/2	304/631/3	314/631/1	314/631/2	314/631/3
0 to +250°C&F	304/632/0	304/632/1	304/632/2	304/632/3	314/632/1	314/632/2	314/632/3


## Standard product numbers:

The following are our standard product numbers for dial thermometers supplied complete with pocket or sliding union (no pocket). Special products can be supplied on request, for example, customer own branding, alternative pocket length, range, etc. Minimum order quantities apply. Please contact our Sales Team for further information.

150mm Diameter Dial with 1.5m Capillary - Stem(S) Length / Pocket(P) Length							
Range	With Pocket				With Sliding Union		
	S=140mm P=63mm	S=140mm P=100mm	S=200mm P=150mm	S=250mm P=150mm	S=140mm	S=200mm	S=250mm
-40 to +40°C only	305/621/0	305/621/1	305/621/2	305/621/3	315/621/1	315/621/2	315/621/3
-40 to +40°C&F	305/622/0	305/622/1	305/622/2	305/622/3	315/622/1	315/622/2	315/622/3
-20 to +60°C only	305/623/0	305/623/1	305/623/2	305/623/3	315/623/1	315/623/2	315/623/3
-20 to +60°C&F	305/624/0	305/624/1	305/624/2	305/624/3	315/624/1	315/624/2	315/624/3
0 to +120°C only	305/625/0	305/625/1	305/625/2	305/625/3	315/625/1	315/625/2	315/625/3
0 to +120°C&F	305/626/0	305/626/1	305/626/2	305/626/3	315/626/1	315/626/2	315/626/3
0 to +160°C only	305/627/0	305/627/1	305/627/2	305/627/3	315/627/1	315/627/2	315/627/3
0 to +160°C&F	305/628/0	305/628/1	305/628/2	305/628/3	315/628/1	315/628/2	315/628/3
0 to +200°C only	305/629/0	305/629/1	305/629/2	305/629/3	315/629/1	315/629/2	315/629/3
0 to +200°C&F	305/630/0	305/630/1	305/630/2	305/630/3	315/630/1	315/630/2	315/630/3
0 to +250°C only	305/631/0	305/631/1	305/631/2	305/631/3	315/631/1	315/631/2	315/631/3
0 to +250°C&F	305/632/0	305/632/1	305/632/2	305/632/3	315/632/1	315/632/2	315/632/3

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Range	With Pocket				With Sliding Union		
	S=140mm P=63mm	S=140mm P=100mm	S=200mm P=150mm	S=250mm P=150mm	S=140mm	S=200mm	S=250mm
-40 to +40°C only	306/621/0	306/621/1	306/621/2	306/621/3	316/621/1	316/621/2	316/621/3
-40 to +40°C&F	306/622/0	306/622/1	306/622/2	306/622/3	316/622/1	316/622/2	316/622/3
-20 to +60°C only	306/623/0	306/623/1	306/623/2	306/623/3	316/623/1	316/623/2	316/623/3
-20 to +60°C&F	306/624/0	306/624/1	306/624/2	306/624/3	316/624/1	316/624/2	316/624/3
0 to +120°C only	306/625/0	306/625/1	306/625/2	306/625/3	316/625/1	316/625/2	316/625/3
0 to +120°C&F	306/626/0	306/626/1	306/626/2	306/626/3	316/626/1	316/626/2	316/626/3
0 to +160°C only	306/627/0	306/627/1	306/627/2	306/627/3	316/627/1	316/627/2	316/627/3
0 to +160°C&F	306/628/0	306/628/1	306/628/2	306/628/3	316/628/1	316/628/2	316/628/3
0 to +200°C only	306/629/0	306/629/1	306/629/2	306/629/3	316/629/1	316/629/2	316/629/3
0 to +200°C&F	306/630/0	306/630/1	306/630/2	306/630/3	316/630/1	316/630/2	316/630/3
0 to +250°C only	306/631/0	306/631/1	306/631/2	306/631/3	316/631/1	316/631/2	316/631/3
0 to +250°C&F	306/632/0	306/632/1	306/632/2	306/632/3	316/632/1	316/632/2	316/632/3

150mm Diameter Dial with 5m Capillary - Stem(S) Length / Pocket(P) Length							
Range	With Pocket				With Sliding Union		
	S=140mm P=63mm	S=140mm P=100mm	S=200mm P=150mm	S=250mm P=150mm	S=140mm	S=200mm	S=250mm
-40 to +40°C only	307/621/0	307/621/1	307/621/2	307/621/3	317/621/1	317/621/2	317/621/3
-40 to +40°C&F	307/622/0	307/622/1	307/622/2	307/622/3	317/622/1	317/622/2	317/622/3
-20 to +60°C only	307/623/0	307/623/1	307/623/2	307/623/3	317/623/1	317/623/2	317/623/3
-20 to +60°C&F	307/624/0	307/624/1	307/624/2	307/624/3	317/624/1	317/624/2	317/624/3
0 to +120°C only	307/625/0	307/625/1	307/625/2	307/625/3	317/625/1	317/625/2	317/625/3
0 to +120°C&F	307/626/0	307/626/1	307/626/2	307/626/3	317/626/1	317/626/2	317/626/3
0 to +160°C only	307/627/0	307/627/1	307/627/2	307/627/3	317/627/1	317/627/2	317/627/3
0 to +160°C&F	307/628/0	307/628/1	307/628/2	307/628/3	317/628/1	317/628/2	317/628/3
0 to +200°C only	307/629/0	307/629/1	307/629/2	307/629/3	317/629/1	317/629/2	317/629/3
0 to +200°C&F	307/630/0	307/630/1	307/630/2	307/630/3	317/630/1	317/630/2	317/630/3
0 to +250°C only	307/631/0	307/631/1	307/631/2	307/631/3	317/631/1	317/631/2	317/631/3
0 to +250°C&F	307/632/0	307/632/1	307/632/2	307/632/3	317/632/1	317/632/2	317/632/3

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## Pockets for thermometers (Thermowells):

- Available in brass or stainless steel
- To suit stem lengths 50mm, 100mm or 150mm



## Standard product numbers:

Connection	Supplied as standard	Material	Product no		
			L=50mm	L=100mm	L=150mm
Sliding fit F x 1/2" BSP M	BT010, BT020	Brass	39/097/0	39/098/0	-
Sliding fit F x 1/2" BSP M	-	Stainless steel	39/095/0	39/096/0	-
3/8" BSP F x 1/2" BSP M	XT020, XT025	Brass	39/121/0	39/122/0	39/123/0
3/8" BSP F x 1/2" BSP M	XT040, XT045	Stainless steel	39/111/0	39/112/0	39/113/0
3/8" BSP F x 1/2" BSP M with 50mm Lagging extensions	-	Brass	39/160/0	39/161/0	-
3/8" BSP F x 1/2" BSP M with 50mm Lagging extensions	-	Stainless steel	39/170/0	39/171/0	-
3/8" BSP F x 3/4" BSP M	-	Brass	39/124/0	39/125/0	39/120/0
3/8" BSP F x 3/4" BSP M	-	Stainless steel	39/114/0	39/115/0	39/116/0

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