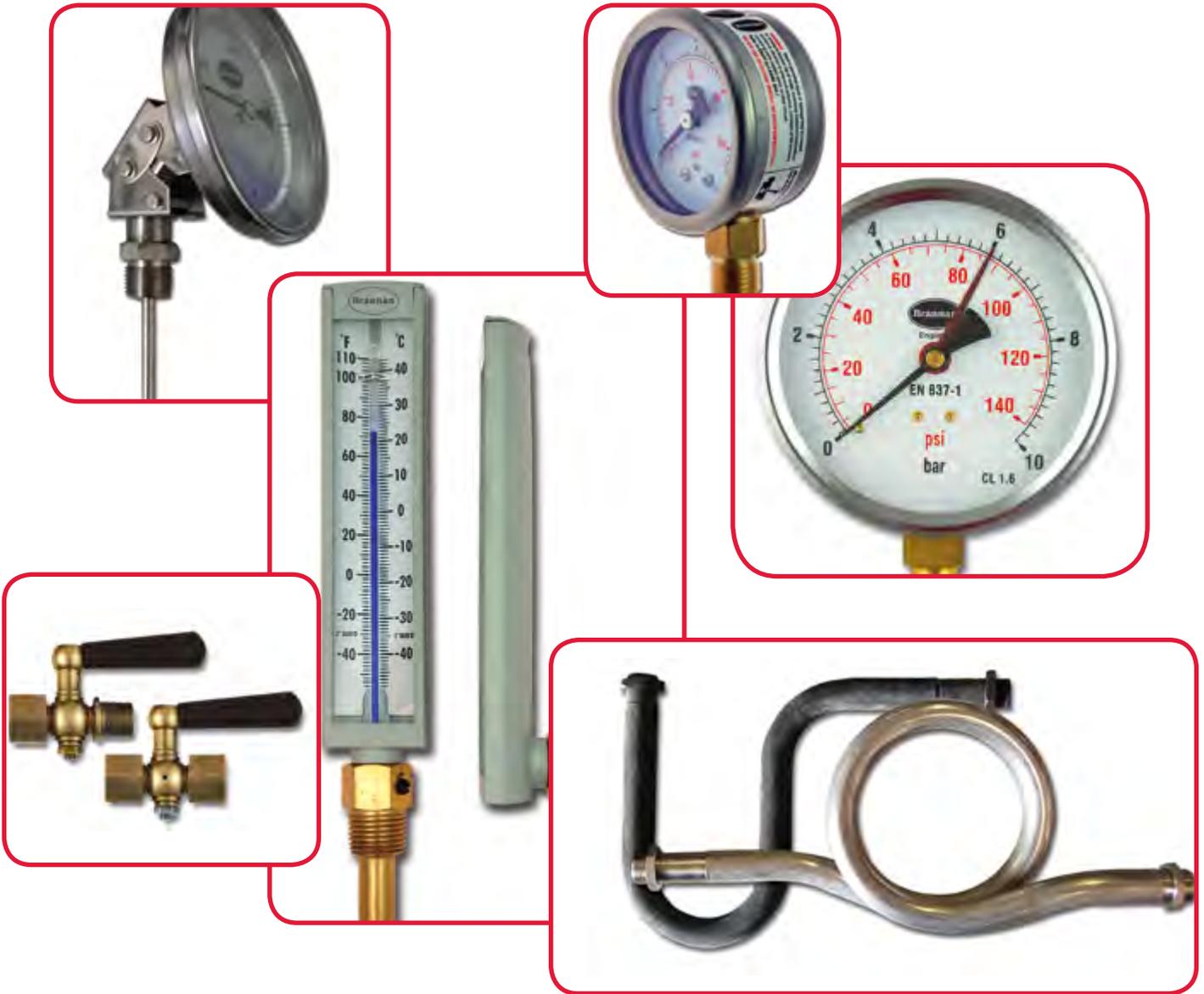




# Thermometers & Instrumentation



## Industrial Catalogue

- Pressure
- Temperature
- Accessories
- Calibration



Measuring Success

# Measuring Success

**S. Brannan & Sons** has manufactured and supplied thermometers, gauges and instrumentation since 1913.

Over a century of tradition, combined with modern manufacturing methods at our facilities in the UK ensure unequalled service.

The Company has operated a quality management system since 1991 and currently operates within the scope of ISO 9001: 2015.

Complimenting our production facilities, the Company provides a calibration service operating its own UKAS accredited laboratory where, in addition to having new thermometers tested, customers may also have existing instruments re-calibrated.

This catalogue describes a wide range of products for a variety of applications. Standard items are normally available for immediate delivery. Many can be supplied with customer branding or include modifications to suit special applications.

Products in this catalogue are generally supplied on **Brannan** standard packaging, or customer's own packaging (quantity dependant) and many are also available bulk packed.

All our products carry a 5 year warranty\*

Customers' requirements can be discussed with our Sales Team.

Please note:

- All electronic instruments are supplied with batteries and full instructions.
- All dimensions are for unpacked products
- All information is correct at time of printing but our policy is one of continuous product development. We reserve the right to change specification without notice.

\* Exclusions apply. Please check [www.brannan.co.uk](http://www.brannan.co.uk) for further information.



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**Brannan Thermometers & Instrumentation** is

Located in Cleator Moor on the western fringe of the English Lake District.

Please see below contact details for assistance with your enquiries or to place an order. All of our prices are competitive and quantity discounts apply. Alternatively, small orders can be placed on our webshop.

**WEBSITE**

website: [www.brannan-industrial.co.uk](http://www.brannan-industrial.co.uk)

website: [www.brannan.co.uk](http://www.brannan.co.uk)

**EMAIL**

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Leconfield Industrial Estate  
Cleator Moor  
Cumbria  
UK  
CA25 5QE





# Pressure



# PG010 - Black Case Pressure Gauges



## Features

- Low price commercial pressure gauge
- **Brannan** quality and accuracy
- Wide choice of ranges and dial diameters
- For dry indoor installations
- Wide range of associated accessories available
- UKAS calibration available

## Standard Product Specifications

<b>Dial Diameters</b>	40mm, 50mm, 63mm & 80mm (100mm diameter available on request)
<b>Design</b>	BS EN 837
<b>Accuracy Class</b>	2.5 (80mm dia: Class 1.6)
<b>Ranges</b>	0 to 1 bar & psi through to 0 to 400 bar & psi
<b>Case</b>	40 & 50mm : Black steel 80mm: Plastic
<b>Connection</b>	40mm dia: 1/8" BSP Brass bottom or back entry (NPT or BSPT on request) 50 & 63mm dia: 1/4" BSP Brass bottom or back entry (NPT or BSPT on request) 80mm dia: 1/2" BSP Brass bottom or back entry (NPT or BSPT on request)
<b>Window</b>	Clear plastic, snap fit
<b>Pointer</b>	Black aluminium
<b>Filling</b>	Dry
<b>Working Pressure</b>	Steady: 75% full scale range Fluctuating: 60% full scale range Short Time: full scale range
<b>Operating Temperature</b>	Ambient: -20 to +60°C Medium: -20 to +60°C
<b>Storage Temperature</b>	-40 to +60°C
<b>Temperature Effect</b>	When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is +/-0.4 per 10°C of the span rising and falling
<b>Bourdon</b>	Cu-Alloy C-type
<b>Bourdon Movement</b>	Cu-Alloy
<b>Protection</b>	40mm dia: IP 33 (BS EN 50629:1992) 50, 63 & 80mm dia: IP 43 (BS EN 60529:1992)
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

## Accessories

Please see Accessories section of this catalogue for associated items for use with these gauges.

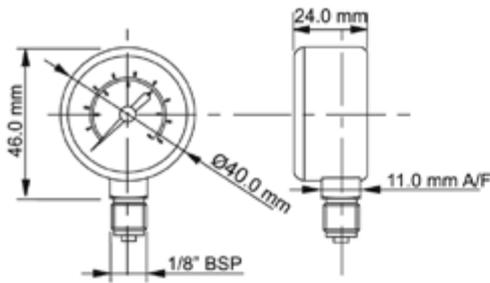
- Syphons
- Gauge Cocks
- Adaptors
- Snubbers



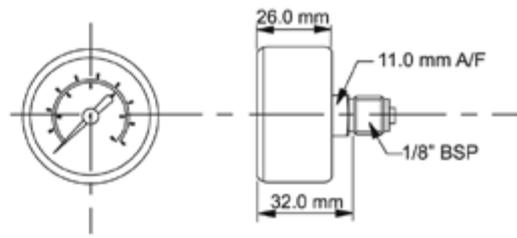
# Black Case Pressure Gauges - PG010

## Dimensions

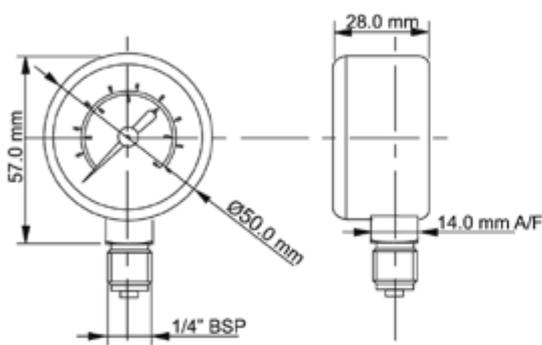
### 40mm Dial Pressure Gauge - Bottom Entry



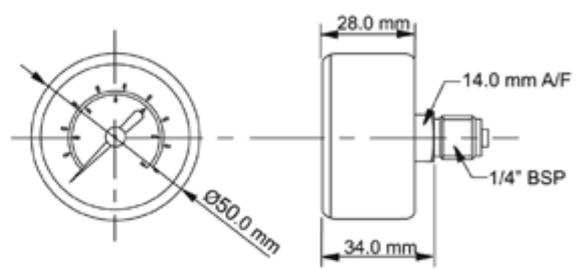
### 40mm Dial Pressure Gauge - Back Entry



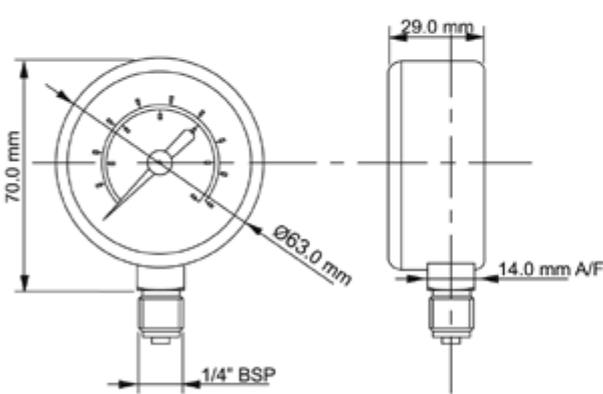
### 50mm Dial Pressure Gauge - Bottom Entry



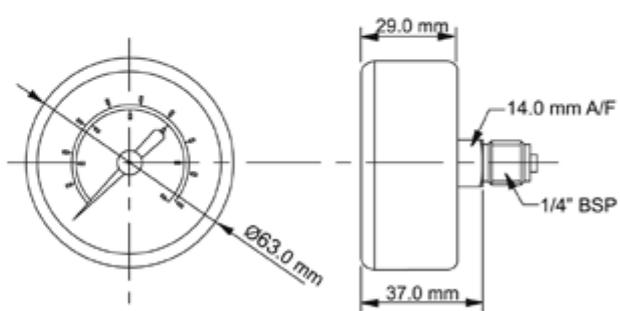
### 50mm Dial Pressure Gauge - Back Entry



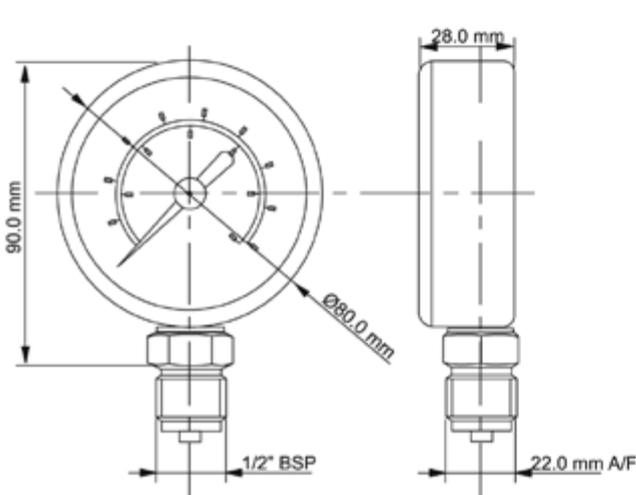
### 63mm Dial Pressure Gauge - Bottom Entry



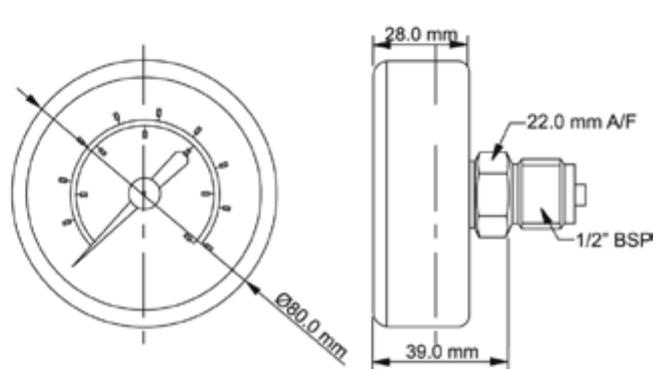
### 63mm Dial Pressure Gauge - Back Entry



### 80mm Dial Pressure Gauge - Bottom Entry



### 80mm Dial Pressure Gauge - Back Entry



# PG010 - Black Steel Case Pressure Gauges

## Standard Product Numbers

The following are our standard product numbers. 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.

Range Bar & PSI	40mm Diameter Connection		50mm Diameter Connection		63mm Diameter Connection		80mm Diameter Connection		
	Bottom	Back	Bottom	Back	Bottom		Bottom	Back	
	BSP	BSP	BSP	BSP	BSP	NPT	BSP	BSP	
0 to 1	-	-	-	-	34/421/0	-	34/441/0	34/501/0	34/521/0
0 to 1.6	-	-	34/122/0	34/142/0	34/422/0	-	34/442/0	34/502/0	34/522/0
0 to 2.5	34/023/0	34/043/0	34/123/0	34/143/0	34/423/0	-	34/443/0	34/503/0	34/523/0
0 to 4	34/024/0	34/044/0	34/124/0	34/144/0	34/424/0	34/424/3	34/444/0	34/504/0	34/524/0
0 to 6	34/025/0	34/045/0	34/125/0	34/145/0	34/425/0	34/425/3	34/445/0	34/505/0	34/525/0
0 to 10	34/026/0	34/046/0	34/126/0	34/146/0	34/426/0	34/426/3	34/446/0	34/506/0	34/526/0
0 to 16	34/027/0	34/047/0	34/127/0	34/147/0	34/427/0	34/427/3	34/447/0	34/507/0	34/527/0
0 to 25	34/028/0	34/048/0	34/128/0	34/148/0	34/428/0	34/428/3	34/448/0	34/508/0	34/528/0
0 to 40	34/029/0	34/049/0	34/129/0	34/149/0	34/429/0	34/429/3	34/449/0	34/509/0	34/529/0
0 to 60	-	-	-	-	34/460/0	-	34/480/0	34/510/0	34/530/0
0 to 100	-	-	-	-	34/461/0	-	34/481/0	34/511/0	34/531/0
0 to 160	-	-	-	-	34/462/0	-	34/482/0	34/512/0	34/532/0
0 to 250	-	-	-	-	34/463/0	-	34/483/0	34/513/0	34/533/0
0 to 400	-	-	-	-	34/464/0	-	34/484/0	34/514/0	34/534/0
-1 to 0	-	-	-	-	34/466/0	-	34/486/0	34/515/0	34/535/0
-1 to 3	-	-	-	-	34/469/0	-	34/489/0	34/516/0	34/536/0
-1 to 5	-	-	-	-	34/468/0	-	34/488/0	34/517/0	34/537/0
-1 to 9	-	-	-	-	34/467/0	-	34/487/0	34/518/0	34/538/0

## Calibration Product Numbers



Calibration	No of Points	Product Number
UKAS	5pt	49/075/0
Traceable to National Standards	5pt	49/060/0

Other calibration types available on request

# Black Steel Case Pressure Gauges with Bezel - PG020



## Features

- Pressure gauge with stainless steel bezel
- Adjustable loose red pointer
- Front or back flange available for panel mounting
- **Brannan** quality and accuracy
- Wide choice of pressure ranges (also available in metres and feet ranges)
- For dry indoor installations
- Wide range of associated accessories available

## Standard Product Specifications

<b>Dial Diameters</b>	100mm & 150mm
<b>Design</b>	BS EN 837
<b>Accuracy Class</b>	1.6 (Class 1.0 available on request)
<b>Ranges</b>	-1 to 0 bar & psi through to 0 to 100 bar & psi
<b>Case</b>	Black steel
<b>Bezel</b>	Stainless Steel
<b>Connection</b>	100mm diameter: 3/8" Brass bottom or back entry, 1/2" BSP/ NPT Brass bottom entry only 150mm diameter: 3/8" BSP Brass bottom entry only (BSPT or wider range NPT available on request)
<b>Window</b>	Clear plastic, snap fit
<b>Pointer</b>	Black aluminium and loose red pointers
<b>Filling</b>	Dry
<b>Working Pressure</b>	Steady: 75% full scale range Fluctuating: 60% full scale range Short Time: full scale range
<b>Operating Temperature</b>	Ambient: -20 to +60°C Medium: -20 to +60°C
<b>Storage Temperature</b>	-40 to +60°C
<b>Temperature Effect</b>	When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is +/-0.4 per 10°C of the span rising and falling
<b>Bourdon</b>	Cu-Alloy C-type
<b>Bourdon Movement</b>	Cu-Alloy
<b>Protection</b>	IP 43 (BS EN 60529:1992)
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

## Accessories

Please see Accessories section of this catalogue for associated items for use with these gauges.

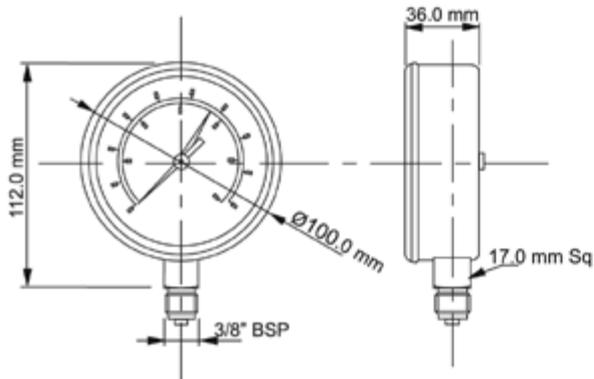
- Syphons
- Gauge Cocks
- Adaptors
- Snubbers



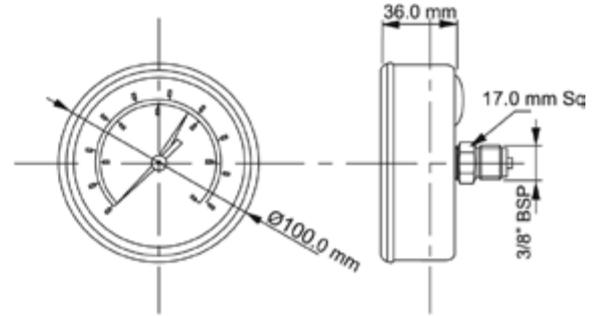
# PG020 - Black Steel Case Pressure Gauges with Bezel

## Dimensions

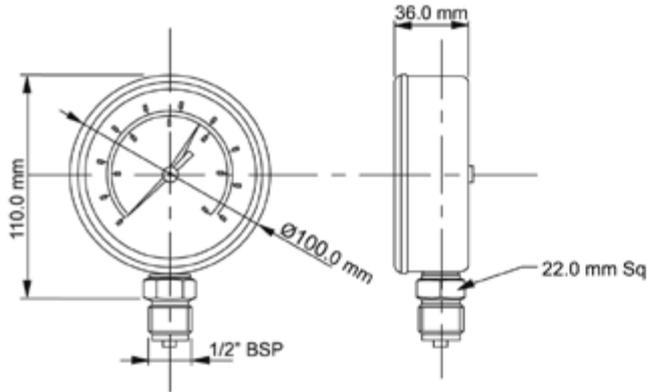
100mm Dial Pressure Gauge 3/8" BSP - Bottom Entry



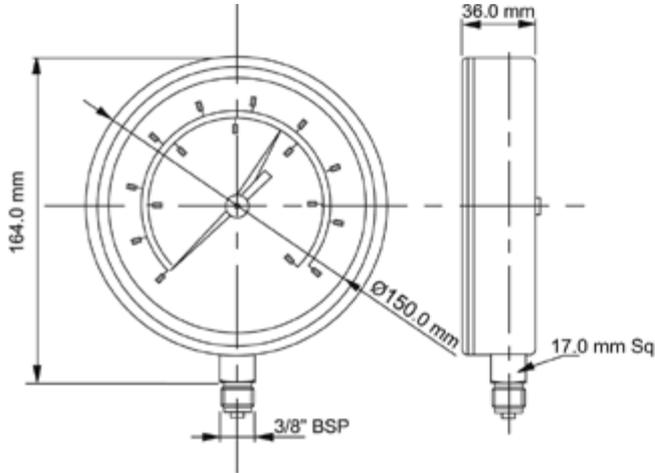
100mm Dial Pressure Gauge 3/8" BSP - Back Entry



100mm Dial Pressure Gauge 1/2" BSP - Bottom Entry



150mm Dial Pressure Gauge 3/8" BSP - Bottom Entry



# Black Steel Case Pressure Gauges with Bezel - PG020

## Standard Product Numbers

The following are our standard product numbers. Special products can be supplied on request, for example, custom-own branding, alternative connection, range, etc. Minimum order quantities apply. Please contact our Sales Team for further information.

Range Bar & PSI	100mm Diameter				150mm Diameter
	Bottom Connection			Back Connection	Bottom Connection
	3/8" BSP	1/2" BSP	1/2" NPT	3/8" BSP	3/8" BSP
0 to 1	34/651/0	34/651/1	-	34/741/0	34/951/0
0 to 2.5	34/652/0	34/652/1	-	34/742/0	34/952/0
0 to 4	34/653/0	34/653/1	-	34/743/0	34/953/0
0 to 6	34/654/0	34/654/1	34/654/3	34/744/0	34/954/0
0 to 10	34/655/0	34/655/1	34/655/3	34/745/0	34/955/0
0 to 16	34/656/0	34/656/1	34/656/3	34/746/0	34/956/0
0 to 25	34/657/0	34/657/1	34/657/3	34/747/0	34/957/0
0 to 40	34/658/0	34/658/1	34/658/3	-	-
0 to 60	34/659/0	34/659/1	-	-	-
0 to 100	34/660/0	34/660/1	-	-	-
-1 to 0	34/666/0	34/666/1	-	-	-
-1 to 1.5	34/667/0	34/667/1	-	-	-
-1 to 3	34/668/0	34/668/1	-	-	-
-1 to 5	34/669/0	34/669/1	-	-	-
-1 to 9	34/670/0	34/670/1	-	-	-

## Calibration Product Numbers



Calibration	No of Points	Product Number
UKAS	5pt	49/075/0
Traceable to National Standards	5pt	49/060/0

Other calibration types available on request

# PG030 - Fillable Stainless Steel Case Pressure Gauges



## Features

- Waterproof and corrosion resistant case
- Glycerine filling available
- Front or back flange available for panel mounting
- **Brannan** quality and accuracy
- For outdoor and high humidity installations
- Wide choice of pressure ranges and dial diameters
- Wide range of associated accessories available

## Applications

- Pneumatics
- Heating, ventilation, air-conditioning
- Pulp and paper industry
- Pumps, compressors, hydraulic presses
- High humidity installations
- Hydraulics
- Food and beverage industry
- Machine and apparatus construction
- Outdoor installations

## Standard Product Specifications

<b>Dial Diameters</b>	50mm, 63mm & 100mm
<b>Design</b>	BS EN 837
<b>Accuracy Class</b>	1.6 (for Class 1.0 - see PG040)
<b>Ranges</b>	-1 to 0 bar & psi through to 0 to 600 bar & psi
<b>Case</b>	Stainless steel 304
<b>Connection</b>	50 & 63mm diameter: 1/4" BSP or NPT Brass bottom or centre back entry 100mm diameter: 1/2" BSP or NPT Brass bottom or lower back entry
<b>Bezel</b>	Stainless steel 304. 50mm & 63mm dia dials: rolled bezel, 100mm dia dial: flat bezel
<b>Window</b>	Polycarbonate
<b>Pointer</b>	Black aluminium
<b>Filling</b>	Dry or glycerine filled
<b>Working Pressure</b>	Steady: 75% full scale range Fluctuating: 60% full scale range Short Time: full scale range
<b>Operating Temperature</b>	Ambient: -20 to +60°C Medium: -20 to +60°C
<b>Storage Temperature</b>	-40 to +60°C
<b>Temperature Effect</b>	When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is +/-0.4 per 10°C of the span rising and falling
<b>Bourdon</b>	Cu-Alloy C-type
<b>Bourdon Movement</b>	Cu-Alloy
<b>Protection</b>	IP 65
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

## Accessories

Please see Accessories section of this catalogue for associated items for use with these gauges.

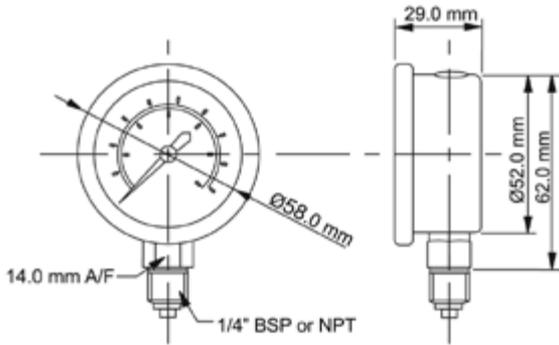
- Syphons
- Gauge Cocks
- Adaptors
- Snubbers



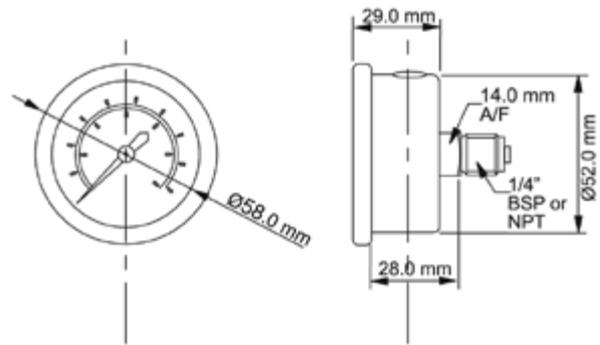
# Fillable Stainless Steel Case Pressure Gauges - PG030

## Dimensions

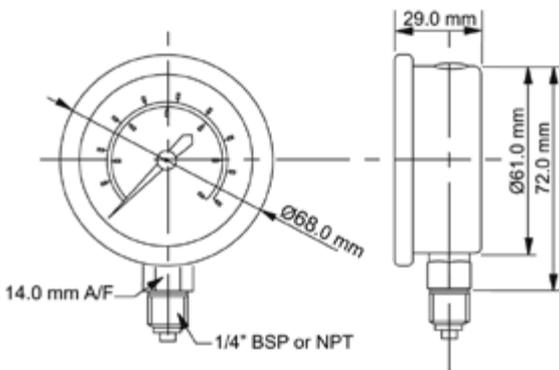
50mm Dial Pressure Gauge - Bottom Entry



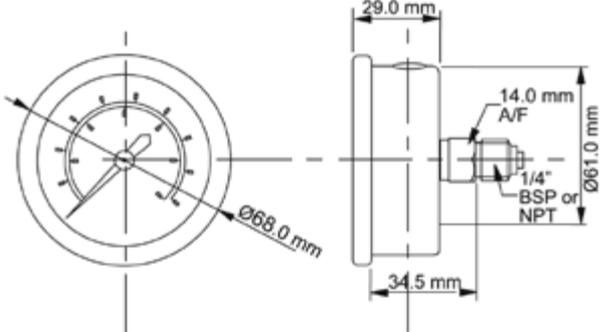
50mm Dial Pressure Gauge - Back Entry



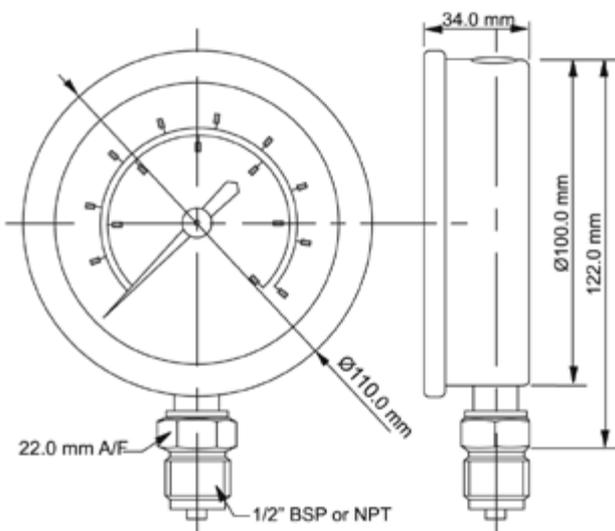
63mm Dial Pressure Gauge - Bottom Entry



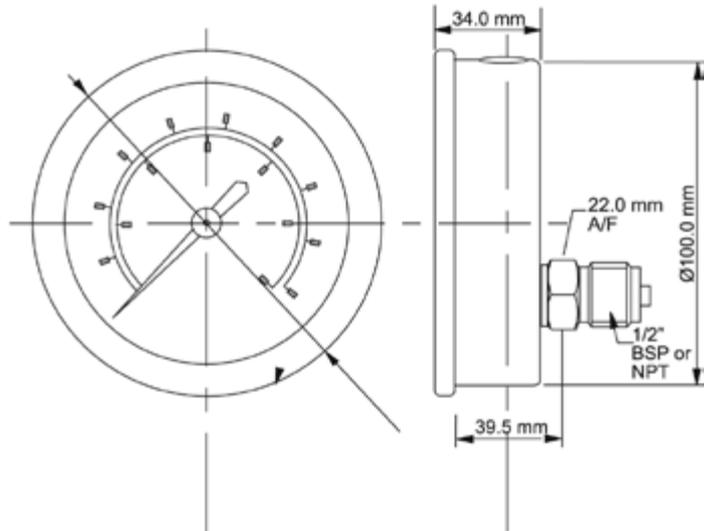
63mm Dial Pressure Gauge - Back Entry



100mm Dial Pressure Gauge - Bottom Entry



100mm Dial Pressure Gauge - Back Entry



# PG030 - Fillable Stainless Steel Case Pressure Gauges

## Standard Product Numbers

The following are our standard product numbers for stainless steel pressure gauges, 1/4" BSP and NPT connections, dry (fillable).

To order glycerine filled pressure gauge from this range, substitute last "/0" for "/5", ie 37/201/0 becomes 37/201/5.

To order pressure gauge with back flange, substitute last "/0" for "/6", ie 37/201/0 becomes 37/201/6.

If gauge is required glycerine filled *and* with back flange, substitute last "/0" for "/7", ie 37/201/0 becomes 37/201/7.

NB - Bottom entry gauges would be fitted with back flange, back entry gauges would be fitted with front flange.

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.

## Product Code Matrix for Glycerine Filled or Gauges with Flange

- Glycerine filled: substitute "/0" for "/5", ie 37/201/0 = 37/201/5
- Back flange gauge: substitute "/0" for "/6", ie 37/201/0 = 37/201/6
- Glycerine filled *and* back flange, substitute last "/0" for "/7", ie 37/201/0 = 37/201/7.

## 50mm Diameter Stainless Steel Pressure Gauges

Range Bar & PSI	Bottom Connection		Back Connection	
	1/4" BSP	1/4" NPT	1/4" BSP	1/4" NPT
0 to 1	37/201/0	37/221/0	37/241/0	37/261/0
0 to 1.6	37/202/0	37/222/0	37/242/0	37/262/0
0 to 2.5	37/203/0	37/223/0	37/243/0	37/263/0
0 to 4	37/204/0	37/224/0	37/244/0	37/264/0
0 to 6	37/205/0	37/225/0	37/245/0	37/265/0
0 to 10	37/206/0	37/226/0	37/246/0	37/266/0
0 to 16	37/207/0	37/227/0	37/247/0	37/267/0
0 to 25	37/208/0	37/228/0	37/248/0	37/268/0
0 to 40	37/209/0	37/229/0	37/249/0	37/269/0
0 to 60	37/210/0	37/230/0	37/250/0	37/270/0
0 to 100	37/211/0	37/231/0	37/251/0	37/271/0
0 to 160	37/212/0	37/232/0	37/252/0	37/272/0
0 to 250	37/213/0	37/233/0	37/253/0	37/273/0
0 to 400	37/214/0	37/234/0	37/254/0	37/274/0
0 to 600	37/215/0	37/235/0	37/255/0	37/275/0
-1 to 0	37/216/0	37/236/0	37/256/0	37/276/0
-1 to 1.5	37/220/0	37/240/0	37/260/0	37/280/0
-1 to 3	37/217/0	37/237/0	37/257/0	37/277/0
-1 to 5	37/218/0	37/238/0	37/258/0	37/278/0
-1 to 9	37/219/0	37/239/0	37/259/0	37/279/0

## 63mm Diameter Stainless Steel Pressure Gauges

Range Bar & PSI	Bottom Connection		Back Connection	
	1/4" BSP	1/4" NPT	1/4" BSP	1/4" NPT
0 to 1	37/501/0	37/521/0	37/541/0	37/561/0
0 to 1.6	37/502/0	37/522/0	37/542/0	37/562/0
0 to 2.5	37/503/0	37/523/0	37/543/0	37/563/0
0 to 4	37/504/0	37/524/0	37/544/0	37/564/0
0 to 6	37/505/0	37/525/0	37/545/0	37/565/0
0 to 10	37/506/0	37/526/0	37/546/0	37/566/0
0 to 16	37/507/0	37/527/0	37/547/0	37/567/0
0 to 25	37/508/0	37/528/0	37/548/0	37/568/0
0 to 40	37/509/0	37/529/0	37/549/0	37/569/0
0 to 60	37/510/0	37/530/0	37/550/0	37/570/0
0 to 100	37/511/0	37/531/0	37/551/0	37/571/0
0 to 160	37/512/0	37/532/0	37/552/0	37/572/0
0 to 250	37/513/0	37/533/0	37/553/0	37/573/0
0 to 400	37/514/0	37/534/0	37/554/0	37/574/0
0 to 600	37/515/0	37/535/0	37/555/0	37/575/0
-1 to 0	37/516/0	37/536/0	37/556/0	37/576/0
-1 to 1.5	37/520/0	37/540/0	37/560/0	37/580/0
-1 to 3	37/517/0	37/537/0	37/557/0	37/577/0
-1 to 5	37/518/0	37/538/0	37/558/0	37/578/0
-1 to 9	37/519/0	37/539/0	37/559/0	37/579/0

## 100mm Diameter Stainless Steel Pressure Gauges

Range Bar & PSI	Bottom Connection		Back Connection	
	1/2" BSP	1/2" NPT	1/2" BSP	1/2" NPT
0 to 1	37/801/0	37/821/0	37/841/0	37/861/0
0 to 1.6	37/802/0	37/822/0	37/842/0	37/862/0
0 to 2.5	37/803/0	37/823/0	37/843/0	37/863/0
0 to 4	37/804/0	37/824/0	37/844/0	37/864/0
0 to 6	37/805/0	37/825/0	37/845/0	37/865/0
0 to 10	37/806/0	37/826/0	37/846/0	37/866/0
0 to 16	37/807/0	37/827/0	37/847/0	37/867/0
0 to 25	37/808/0	37/828/0	37/848/0	37/868/0
0 to 40	37/809/0	37/829/0	37/849/0	37/869/0
0 to 60	37/810/0	37/830/0	37/850/0	37/870/0
0 to 100	37/811/0	37/831/0	37/851/0	37/871/0
0 to 160	37/812/0	37/832/0	37/852/0	37/872/0
0 to 250	37/813/0	37/833/0	37/853/0	37/873/0
0 to 400	37/814/0	37/834/0	37/854/0	37/874/0
0 to 600	37/815/0	37/835/0	37/855/0	37/875/0
-1 to 0	37/816/0	37/836/0	37/856/0	37/876/0
-1 to 1.5	37/820/0	37/840/0	37/860/0	37/880/0
-1 to 3	37/817/0	37/837/0	37/857/0	37/877/0
-1 to 5	37/818/0	37/838/0	37/858/0	37/878/0
-1 to 9	37/819/0	37/839/0	37/859/0	37/879/0



## Additional Flanges Product numbers

Gauge Diameter	Product No	
	Back Flange	Front Flange
50mm	39/321/0	39/324/0
63mm	39/322/0	39/325/0
100mm	39/327/0	39/326/0

## Calibration Product Numbers

Calibration	No of Points	Product Number
UKAS	5pt	49/075/0
Traceable to National Standards	5pt	49/060/0



Other calibration types available on request

# Stainless Steel Case Contractor Pressure Gauges - PG035



## Features

- Stainless steel pressure gauge with bezel
- Flow restrictor
- Recalibration screw
- **Brannan** quality and accuracy
- Wide choice of pressure ranges
- Ideal with plumbing and HVAC installations
- Wide range of associated accessories available

## Standard Product Specifications

<b>Dial Diameters</b>	125mm
<b>Design</b>	ASME B40.100
<b>Accuracy Class</b>	+/-1%, ASME Grade 1A
<b>Ranges</b>	-1 to 0 bar & psi through to 0 to 100 bar & psi
<b>Case</b>	Stainless steel
<b>Bezel</b>	Stainless Steel
<b>Connection</b>	1/4" NPT Brass bottom entry only
<b>Window</b>	Clear plastic
<b>Pointer</b>	Black aluminium
<b>Filling</b>	Dry
<b>Working Pressure</b>	Steady: 75% full scale range Fluctuating: 60% full scale range Short Time: full scale range
<b>Operating Temperature</b>	Ambient: -20 to +60°C Medium: -20 to +60°C
<b>Storage Temperature</b>	-40 to +60°C
<b>Temperature Effect</b>	When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is +/-0.4 per 10°C of the span rising and falling
<b>Bourdon</b>	Cu-Alloy C-type
<b>Bourdon Movement</b>	Cu-Alloy
<b>Protection</b>	IP 43 (BS EN 60529:1992)
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required
<b>MOQ</b>	Minimum order quantities apply. Please contact our Sales Team for further information.

## Accessories

Please see Accessories section of this catalogue for associated items for use with these gauges.

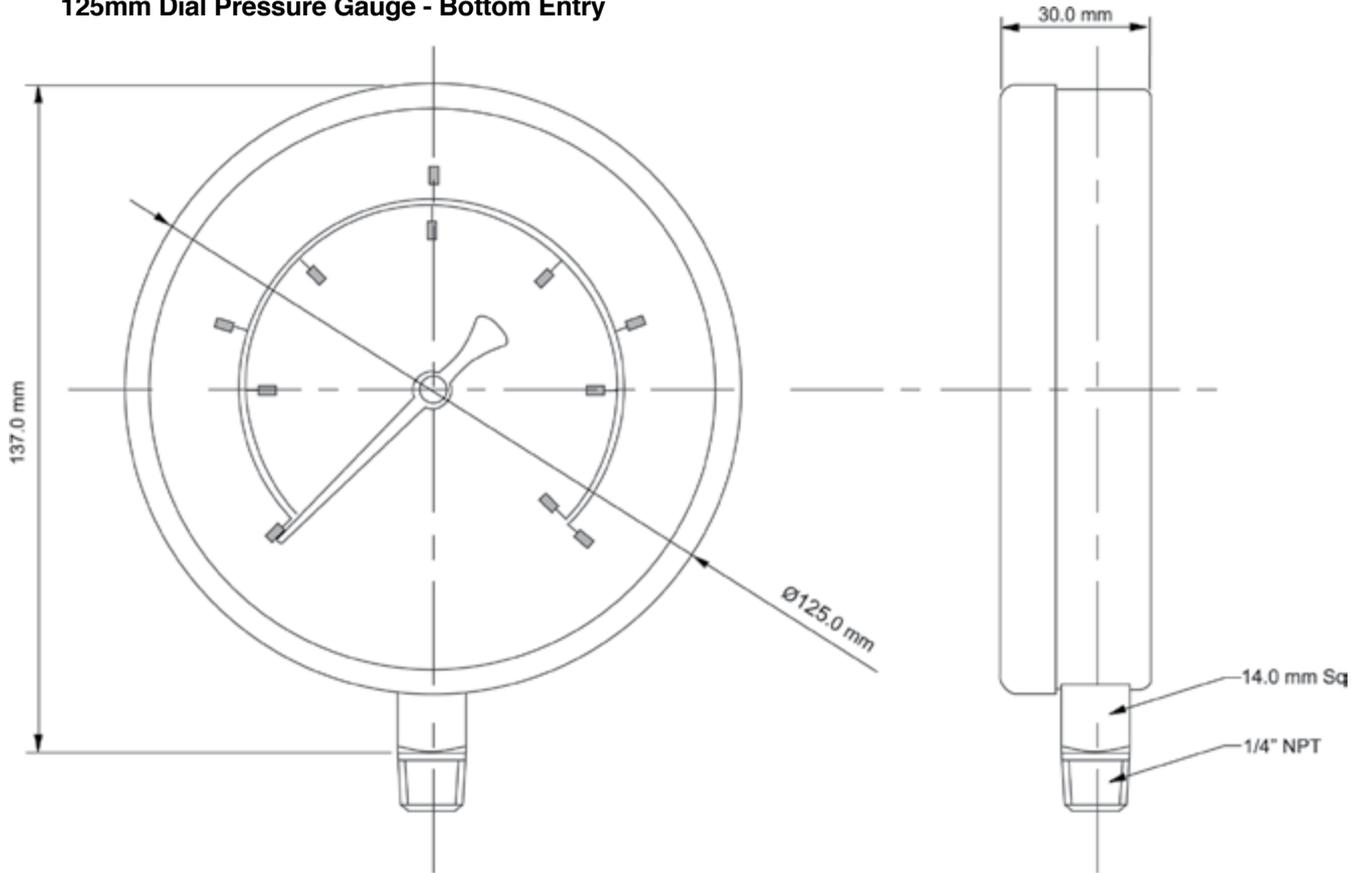
- Syphons
- Gauge Cocks
- Adaptors
- Snubbers



# PG035 - Stainless Steel Case Contractor Pressure Gauges

## Dimensions

### 125mm Dial Pressure Gauge - Bottom Entry



### Standard Product Numbers

The following are our standard product numbers. 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.

Range Bar & PSI	Product Number
0 to 1	34/790/0
0 to 2.5	34/791/0
0 to 4	34/792/0
0 to 6	34/793/0
0 to 10	34/794/0
0 to 16	34/795/0
0 to 25	34/796/0
0 to 40	34/797/0
0 to 60	34/798/0
0 to 100	34/799/0
-1 to 0	34/800/0
-1 to 1.5	34/801/0
-1 to 3	34/802/0
-1 to 5	34/803/0
-1 to 9	34/804/0

### Calibration Product Numbers



Calibration	No of Points	Product Number
UKAS	5pt	49/075/0
Traceable to National Standards	5pt	49/060/0

Other calibration types available on request

# Fully Stainless Steel Pressure Gauges - PG040



## Features

- Stainless steel internal parts for corrosive pressure media
- Flow restrictor
- Ingress Protection IP 67
- Micro adjustable pointer
- Highly corrosion resistant stainless steel, laser welded case
- Silicone filling available (glycerine filling also available for solid body instruments)
- Vibration and shock resistant mechanism
- Front or back flange available
- Wide choice of pressure ranges
- **Brannan** quality and accuracy
- For harsh and corrosive environments and pressure media
- Range of associated accessories available

## Applications

- Heating, ventilation, air-conditioning
- Pulp and paper industry
- Pumps, compressors, hydraulic presses
- Pneumatics
- Outdoor installations
- Food and beverage industry
- Machine and apparatus construction
- High humidity installations
- Hydraulics

## Standard Product Specifications

Dial Diameters	100mm
Design	BS EN 837-1
Accuracy Class	1.0
Ranges	0 to 1 bar & psi through to 0 to 25 bar & psi
Case	Stainless steel 304, laser welded
Connection	1/2" BSP or NPT bottom entry
Bezel	Stainless steel 304 bayonet bezel
Internals Connection	Stainless steel 304 (316 on request)
Internals Tube	Stainless steel 316
Internals Movement	Stainless steel 304
Window	Tempered Glass
Pointer	Black aluminium and micro adjustable pointer
Filling	Dry
Working Pressure	Steady: 75% full scale range Fluctuating: 60% full scale range Short Time: full scale range
Operating Temperature	Dry: -40 to +60°C (Silicone Filled: -20 to +60°C)
Storage Temperature	-40 to +60°C
Temperature Effect	When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is +/-0.4 per 10°C of the span rising and falling
Ingress Protection	IP 67
Calibration	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required
MOQ	Minimum order quantities apply. Please contact our Sales Team for further information.

## Accessories

Please see Accessories section of this catalogue for associated items for use with these gauges.

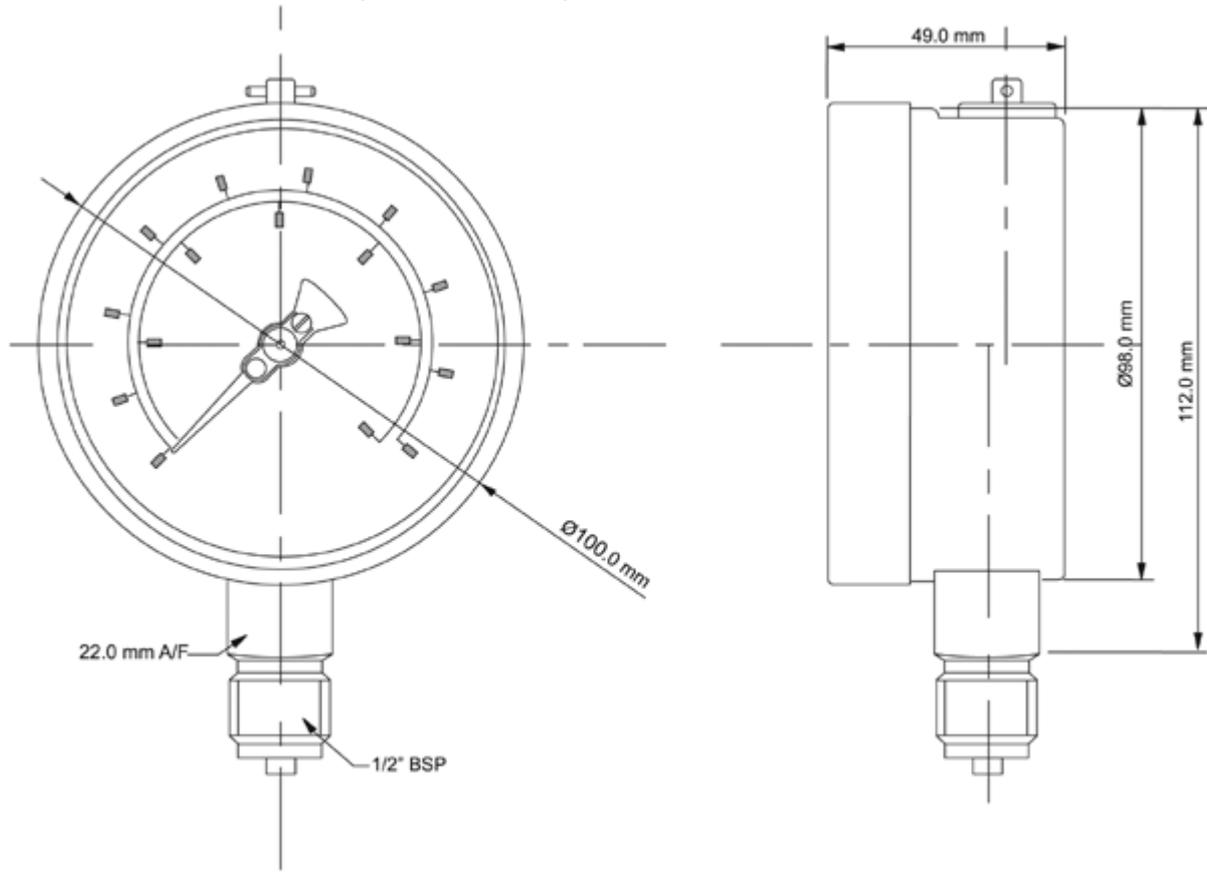
- Syphons
- Gauge Cocks
- Adaptors
- Snubbers



# PG040 - Fully Stainless Steel Pressure Gauges

## Dimensions

100mm Dial Pressure Gauge - Bottom Entry



### Standard Product Numbers

The following are our standard product numbers. 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.

Range Bar & PSI	100mm Diameter Bottom Connection	
	1/2" BSP	1/2" NPT
-1 to 0	37/886/0	37/886/1
-1 to 3	37/887/0	37/887/1
-1 to 5	37/888/0	37/888/1
-1 to 9	37/889/0	37/889/1
0 to 1	37/890/0	37/890/1
0 to 2.5	37/891/0	37/891/1
0 to 4	37/892/0	37/892/1
0 to 6	37/893/0	37/893/1
0 to 10	37/894/0	37/894/1
0 to 16	37/895/0	37/895/1
0 to 25	37/896/0	37/896/1
0 to 40	37/897/0	37/897/1
0 to 60	37/898/0	37/898/1
0 to 100	37/899/0	37/899/1
0 to 160	37/885/0	37/885/1
0 to 400	37/884/0	37/884/1
0 to 600	37/883/0	37/883/1

### Calibration Product Numbers

Calibration	No of Points	Product Number
UKAS	5pt	49/075/0
Traceable to National Standards	5pt	49/060/0



Other calibration types available on request

# Phenolic Pressure Gauges - PG050



## Features

- High level of operator safety
- Durable and corrosion resistant case
- Glycerine can be filled in the field
- Micro adjustable pointer
- **Brannan** quality and accuracy
- Stainless steel or brass internals available
- Vibration and shock resistant mechanism
- For harsh and corrosive environments

## Standard Product Specifications

<b>Dial Diameters</b>	115mm
<b>Pressure Range</b>	30" Hg VAC through 15000 psi
<b>Accuracy</b>	+/- 1% full scale
<b>Case &amp; Ring</b>	Phenolic case and ring, bayonet type, 304mm stainless steel dull or polished ring
<b>Connection</b>	304 stainless steel or brass, 1/4" or 1/2" BSP bottom entry (NPT available on request)
<b>Window</b>	Tempered glass with O ring seal
<b>Pointer</b>	Aluminium
<b>Dial</b>	Aluminium
<b>Filling</b>	Dry
<b>Bourdon Tube</b>	316 stainless steel or phosphor bronze
<b>Bourdon Movement</b>	304 stainless steel or brass
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required
<b>MOQ</b>	Minimum order quantities apply. Please contact our Sales Team for further information

## Accessories

Please see Accessories section of this catalogue for associated items for use with these gauges.

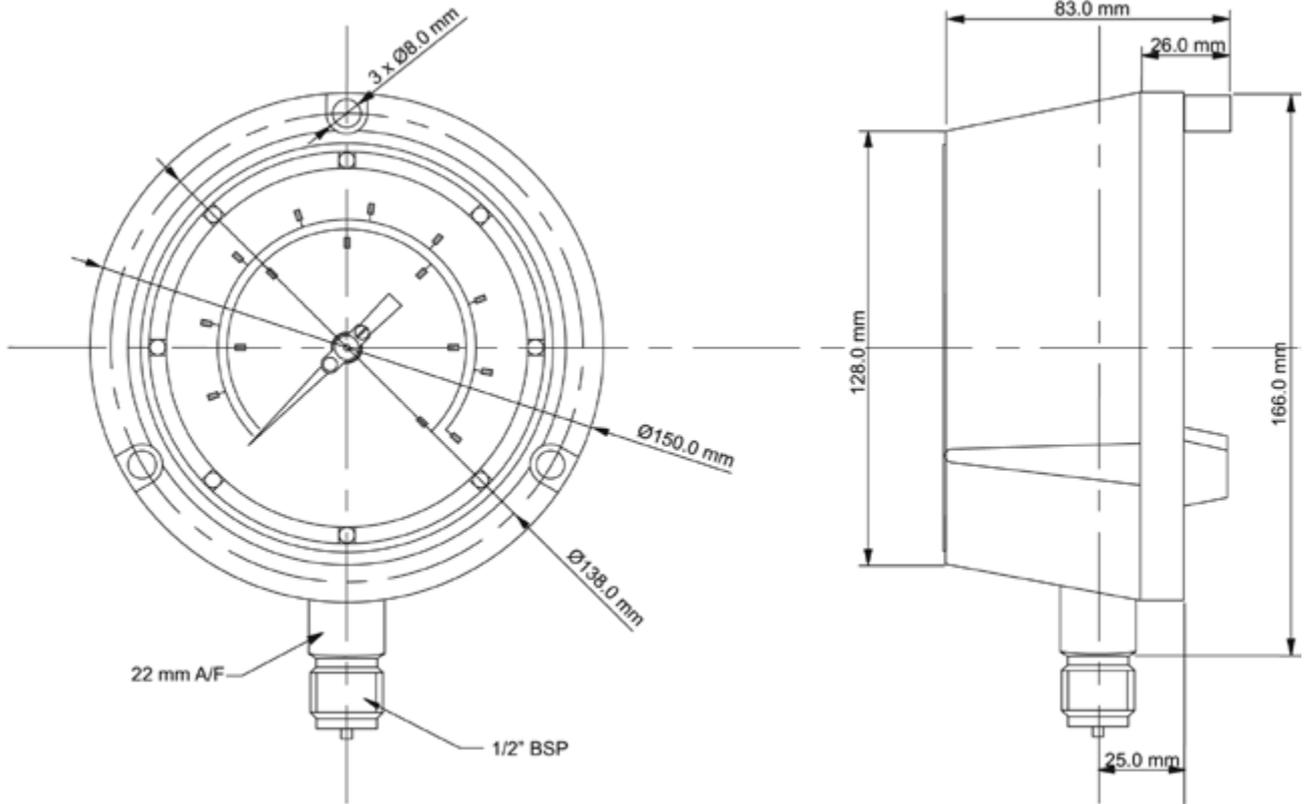
- Syphons
- Gauge Cocks
- Adaptors
- Snubbers



# PG050 - Phenolic Pressure Gauges

## Dimensions

### 115mm Dial Pressure Gauge - Bottom Entry



## Standard Product Numbers

Please contact our Sales Team for further information regarding ranges, connections, etc.

Range Bar & PSI	Brass Connection		S/Steel Connection	
	1/4" BSP	1/2" BSP	1/4" BSP	1/2" BSP
0 to 10 bar & PSI	36/100/1	36/100/2	36/120/1	36/120/2
0 to 16 bar & PSI	36/101/1	36/101/2	36/121/1	36/121/2
0 to 25 bar & PSI	36/102/1	36/102/2	36/122/1	36/122/2
0 to 40 bar & PSI	36/103/1	36/103/2	36/123/1	36/123/2
0 to 60 bar & PSI	36/104/1	36/104/2	36/124/1	36/124/2

## Calibration Product Numbers



Calibration	No of Points	Product Number
UKAS	5pt	49/075/0
Traceable to National Standards	5pt	49/060/0

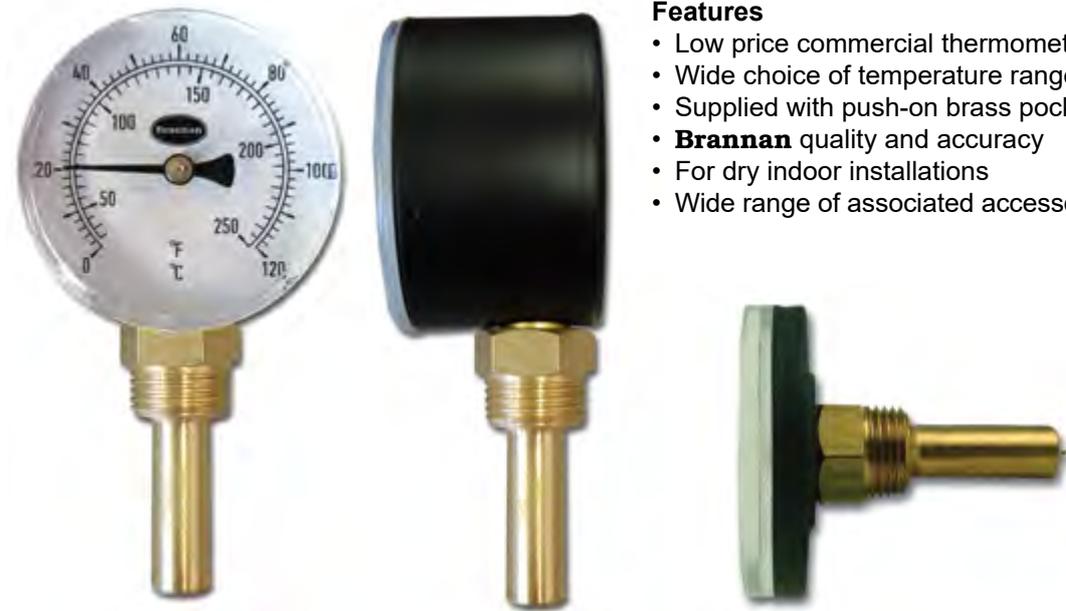
Other calibration types available on request



# Temperature



# BT010 - Black Case Bimetal Dial Thermometers



### Features

- Low price commercial thermometer
- Wide choice of temperature ranges and stem lengths
- Supplied with push-on brass pocket
- **Brannan** quality and accuracy
- For dry indoor installations
- Wide range of associated accessories available

### Standard Product Specifications

Dial Diameters	63mm & 100mm
Design	BS EN 13190
Accuracy Class	2
Ranges	-20 to +60°C&F through to 0 to +160°C&F
Case	63mm dia: plastic. 100mm dia: black steel
Connection	1/2" BSP Brass push fit, bottom or back (NPT or BSPT available on request)
Stem Length	50mm through to 300mm
Sensor Mechanism	Standard bimetal coil
Window	PMMA
Pointer	Black plastic
Filling	Dry
Operating Temperature	-40 to +80°C
Storage Temperature	-40 to +60°C
Protection	IP 54 (BS EN 60529:1992)
Calibration	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

### Accessories

Please see Accessories section of this catalogue for associated items for use with these thermometers.

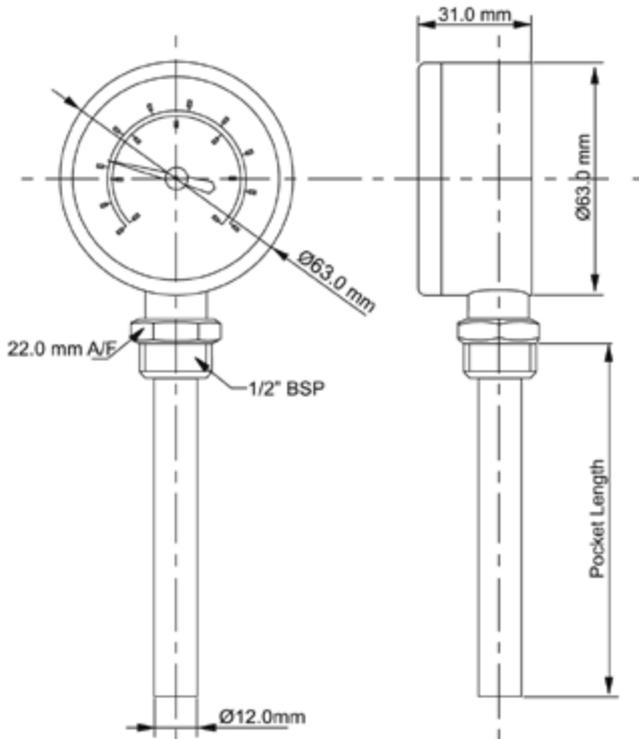
- Pockets
- Self sealing test plugs



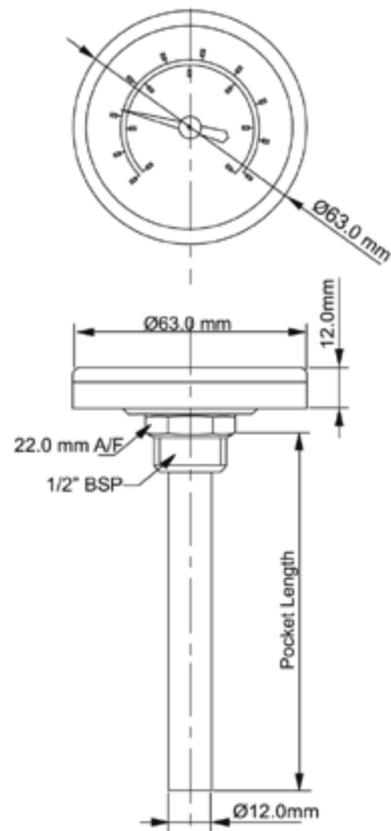
# Black Case Bimetal Dial Thermometers - BT010

## Dimensions

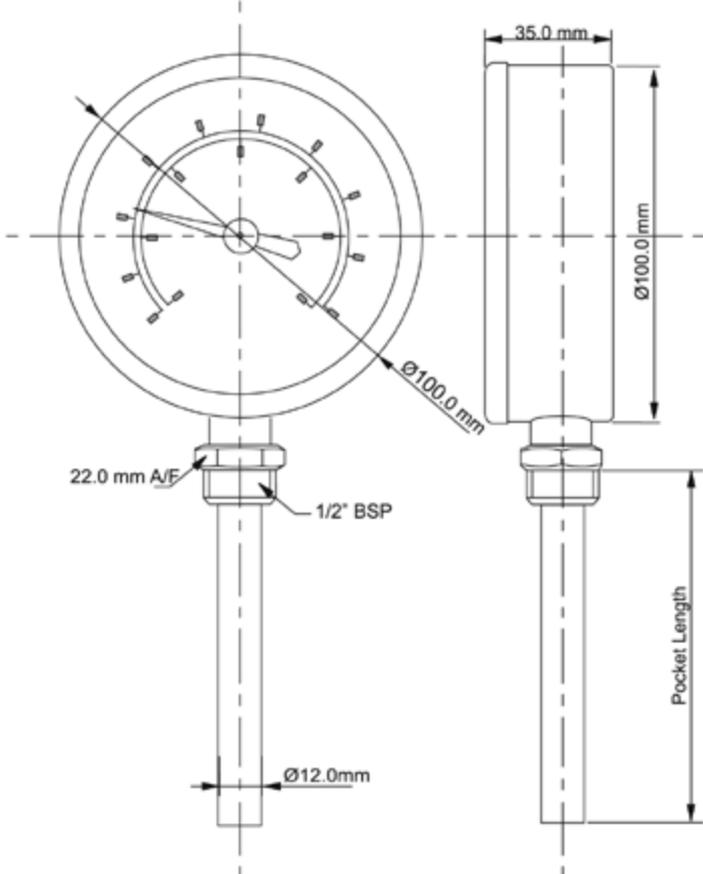
### 63mm Dial Thermometer - Bottom Entry



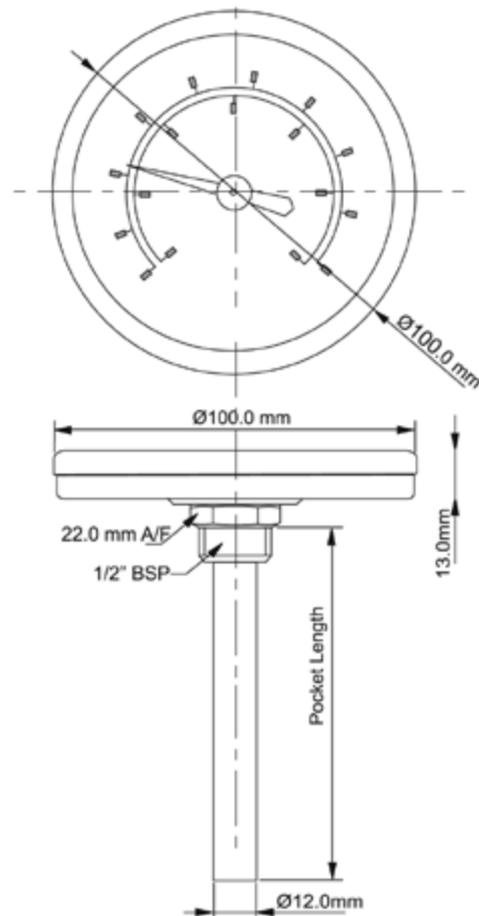
### 63mm Dial Thermometer - Back Entry



### 100mm Dial Thermometer - Bottom Entry



### 100mm Dial Thermometer - Back Entry



# BT010 - Black Case Bimetal Dial Thermometers

## Standard Product Numbers

The following are our standard product numbers. 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.

Range °C&F	63mm Bottom Connection Pocket Length					
	50mm	100mm	150mm	200mm	250mm	300mm
-20 to +60°C&F	32/428/0	32/448/0	32/468/0	32/478/0	32/488/0	32/498/0
0 to +120°C&F	32/421/0	32/441/0	32/461/0	32/471/0	32/481/0	32/491/0
0 to +160°C&F	32/424/0	32/444/0	32/464/0	32/474/0	32/484/0	32/494/0
63mm Back Connection Pocket Length						
-20 to +60°C&F	31/428/0	31/448/0	31/468/0	31/478/0	31/488/0	31/498/0
0 to +120°C&F	31/421/0	31/441/0	31/461/0	31/471/0	31/481/0	31/491/0
0 to +160°C&F	31/424/0	31/444/0	31/464/0	31/474/0	31/484/0	31/494/0

Range °C&F	100mm Bottom Connection Pocket Length					
	50mm	100mm	150mm	200mm	250mm	300mm
-20 to +60°C&F	32/828/0	32/848/0	32/868/0	32/878/0	32/888/0	32/898/0
0 to +120°C&F	32/821/0	32/841/0	32/861/0	32/871/0	32/881/0	32/891/0
0 to +160°C&F	32/824/0	32/844/0	32/864/0	32/874/0	32/884/0	32/894/0
100mm Back Connection Pocket Length						
-20 to +60°C&F	31/828/0	31/848/0	31/868/0	31/878/0	31/888/0	31/898/0
0 to +120°C&F	31/821/0	31/841/0	31/861/0	31/871/0	31/881/0	31/891/0
0 to +160°C&F	31/824/0	31/844/0	31/864/0	31/874/0	31/884/0	31/894/0

## Calibration Product Numbers



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

# Black Case Bimetal Dial Thermometer with Bezel - BT020



## Features

- Thermometer with stainless steel bezel and brass stem
- Wide choice of temperature ranges and stem lengths
- Supplied with push-on brass pocket
- **Brannan** quality and accuracy
- For dry indoor installations
- Wide range of associated accessories available

## Standard Product Specifications

<b>Dial Diameters</b>	80mm & 100mm
<b>Design</b>	BS EN 13190
<b>Accuracy Class</b>	2 (for 1% accuracy class - see BT045)
<b>Ranges</b>	-20 to +60°C&F through to 0 to +250°C&F
<b>Case</b>	Black steel
<b>Bezel</b>	Stainless Steel
<b>Connection</b>	1/2" BSP/NPT Brass push fit, bottom or back entry (BSPT or wider range of NPT available on request)
<b>Stem Length</b>	80mm dia: 50mm & 100mm 100mm dia: 50mm, 100mm & 150mm (other stem lengths on request, ie 200, 250 & 300mm)
<b>Sensor Mechanism</b>	Standard bimetal coil
<b>Window</b>	PMMA
<b>Pointer</b>	Black plastic
<b>Filling</b>	Dry
<b>Operating Temperature</b>	-40 to +80°C
<b>Storage Temperature</b>	-40 to +60°C
<b>Protection</b>	IP 54 (BS EN 60529:1992)
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

## Accessories

Please see Accessories section of this catalogue for associated items for use with these thermometers.

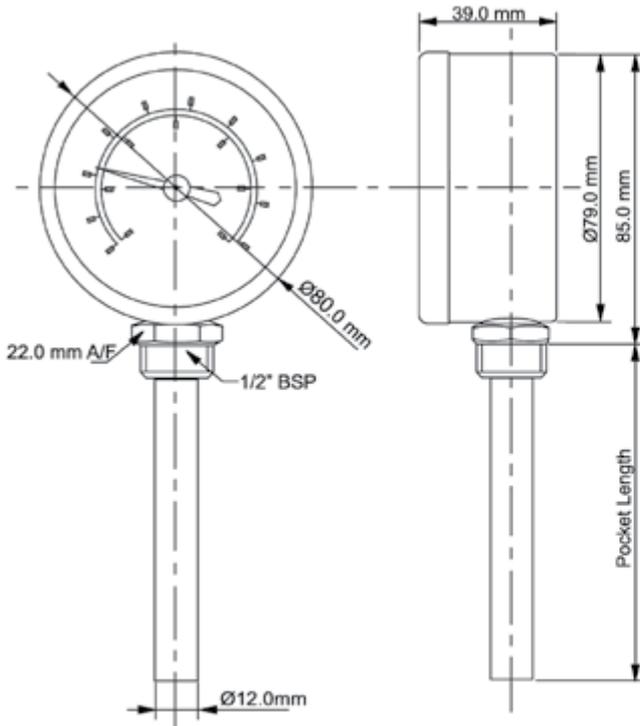
- Pockets
- Self sealing test plugs



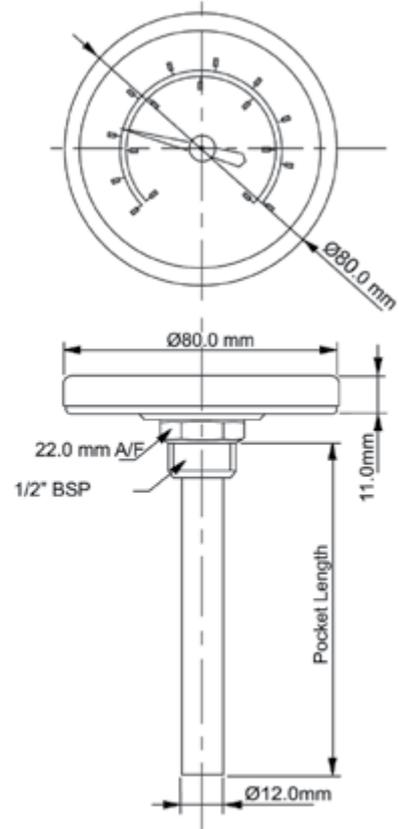
# BT020 - Black Case Bimetal Dial Thermometer with Bezel

## Dimensions

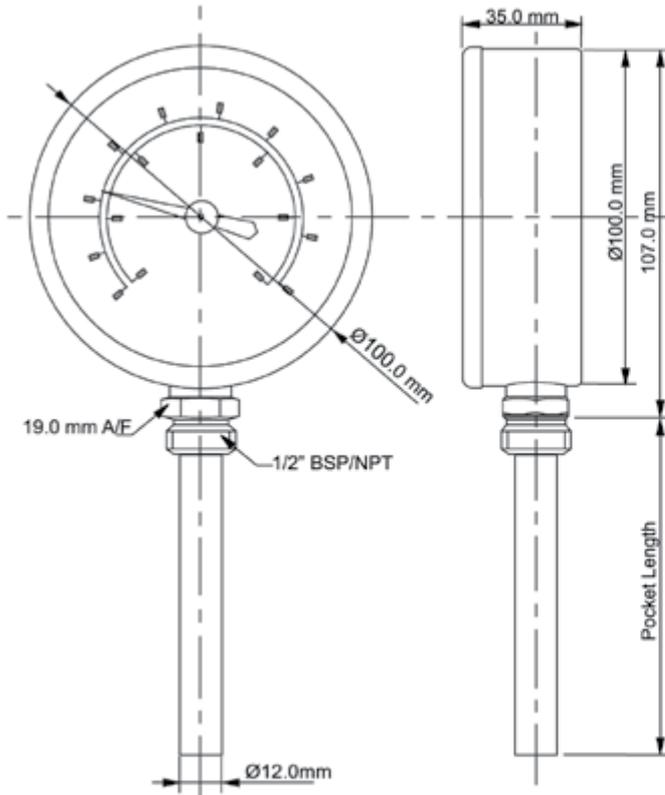
### 80mm Dial Thermometer - Bottom Entry



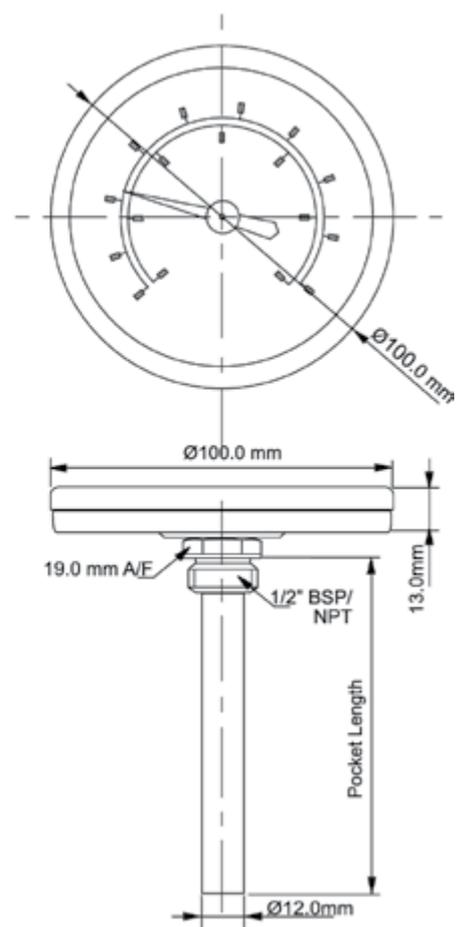
### 80mm Dial Thermometer - Back Entry



### 100mm Dial Thermometer - Bottom Entry



### 100mm Dial Thermometer - Back Entry



# Black Case Bimetal Dial Thermometer with Bezel - BT020

## Standard Product Numbers

The following are our standard product numbers. 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.

80mm Diameter Dial Thermometers				
Range °C&F	Bottom Connection Pocket Length		Back Connection Pocket Length	
	50mm	100mm	50mm	100mm
-20 to +60°C&F	32/524/0	32/544/0	31/524/0	31/544/0
0 to +120°C&F	32/521/0	32/541/0	31/521/0	31/541/0
0 to +160°C&F	32/528/0	32/548/0	31/525/0	31/545/0

100mm Diameter Dial Thermometers						
Range °C&F	Bottom Connection Pocket Length			Back Connection Pocket Length		
	50mm	100mm	150mm	50mm	100mm	150mm
-20 to +60°C&F	32/624/0	32/644/0	32/664/0	31/624/0	31/644/0	31/664/0
0 to +120°C&F	32/621/0	32/641/0	32/661/0	31/621/0	31/641/0	31/661/0
0 to +160°C&F	32/628/0	32/648/0	32/668/0	31/625/0	31/645/0	31/665/0

100mm Diameter - 1/2" NPT Connection		
Range °C&F	Bottom Connection Pocket Length	
	50mm	100mm
-20 to +60°C&F	32/624/3	32/644/3
0 to +120°C&F	32/621/3	32/641/3

## Calibration Product Numbers



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

# XT020 - Black Case Expansion Dial Thermometers with Bezel



## Features

- Thermometer with stainless steel bezel and brass stem
- High quality liquid expansion measuring system
- Wide choice of temperature ranges and stem lengths
- Supplied complete with brass pocket
- **Brannan** quality and accuracy
- For dry indoor installations
- Wide range of associated accessories available

## Standard Product Specifications

Dial Diameters	100mm & 150mm
Lagging Extension	50mm (100mm lagging extension available on request)
Design	BS EN 13190
Accuracy Class	2
Ranges	-20 to +60°C&F through to 0 to +200°C&F (0 to +250°C only)
Case	Black steel
Bezel	430 Stainless Steel
Connection	1/2" BSP bottom or back entry
Stem Lengths	100mm, 150mm & 200mm
Pockets	50mm, 100mm & 150mm Brass (SS 304 or SS316 available on request)
Sensor Mechanism	Liquid expansion (Kerosene filling)
Window	PMMA
Pointer	Black plastic
Filling	Dry
Operating Temperature	0 to +40°C (Higher or lower ambient temperatures can cause indication errors)
Storage Temperature	-40 to +60°C
Protection	IP 54 (BS EN 60529:1992)
Calibration	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

## Accessories

Please see Accessories section of this catalogue for associated items for use with these thermometers.

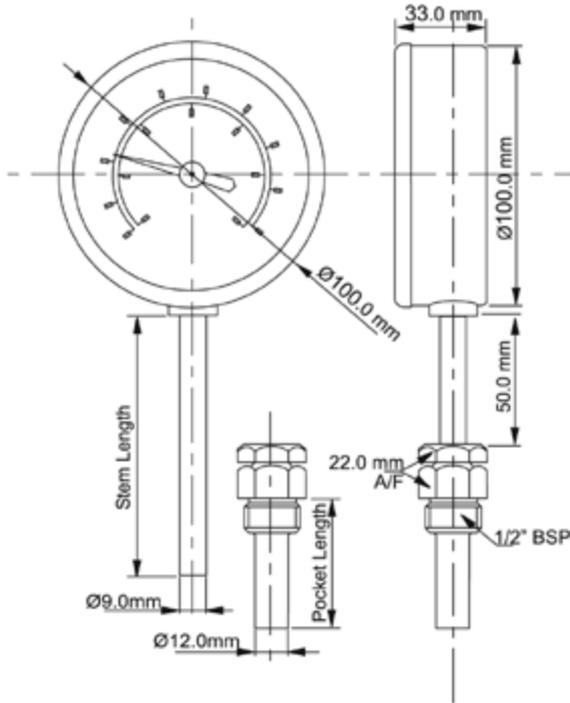
- Pockets
- Self sealing test plugs



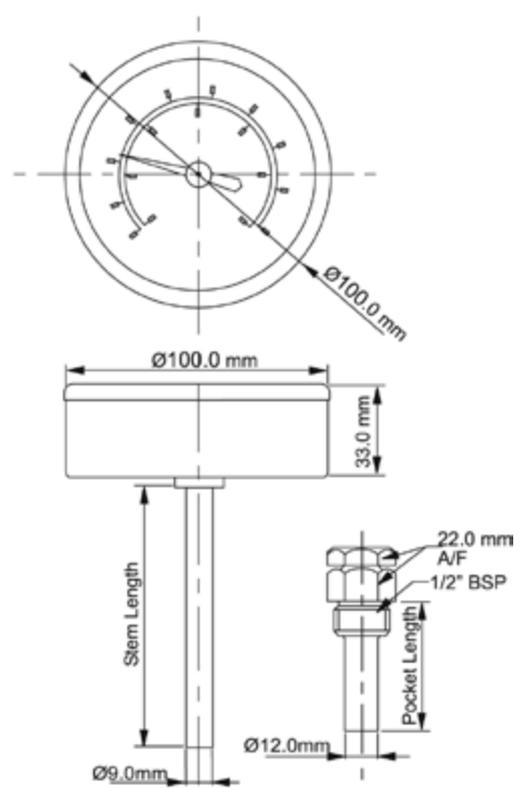
# Black Case Expansion Dial Thermometers with Bezel - XT020

## Dimensions

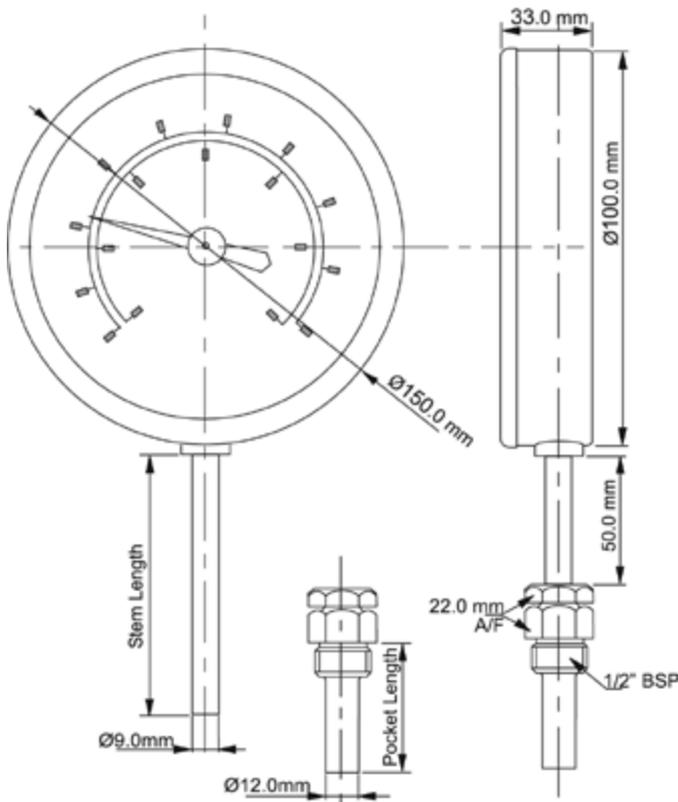
### 100mm Dial Thermometer - Bottom Entry



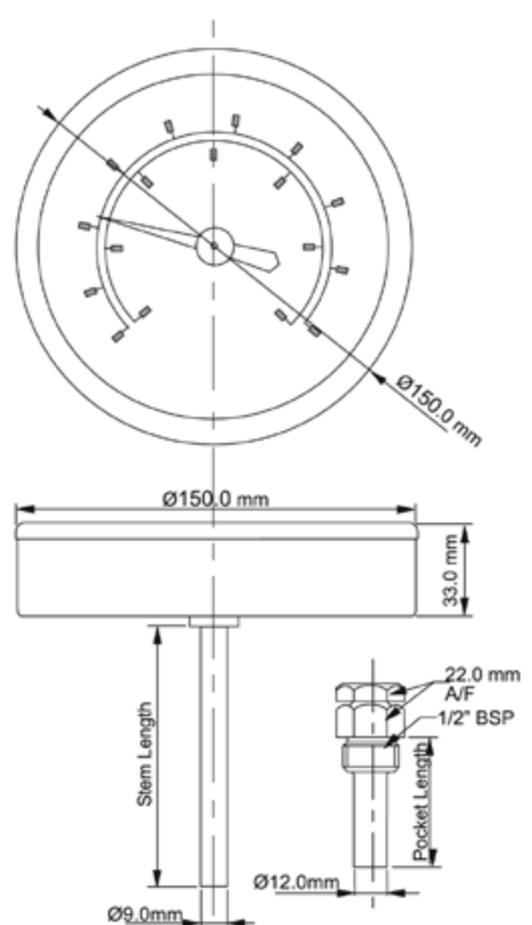
### 100mm Dial Thermometer - Back Entry



### 150mm Dial Thermometer - Bottom Entry



### 150mm Dial Thermometer - Back Entry



# XT020 - Black Case Expansion Dial Thermometers with Bezel

## Standard Product Numbers

The following are our standard product numbers. 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.

Range	100mm Diameter Product Numbers					
	Bottom Connection			Back Connection		
	100mm Stem 50mm Pocket	150mm Stem 100mm Pocket	200mm Stem 150mm Pocket	100mm Stem 50mm Pocket	150mm Stem 100mm Pocket	200mm Stem 150mm Pocket
-40 to +40°C only	97/621/0	97/641/0	97/661/0	96/621/0	96/641/0	96/661/0
-40 to +40°C&F	97/622/0	97/642/0	97/662/0	96/622/0	96/642/0	96/662/0
-20 to +60°C only	97/623/0	97/643/0	97/663/0	96/623/0	96/643/0	96/663/0
-20 to +60°C&F	97/624/0	97/644/0	97/664/0	96/624/0	96/644/0	96/664/0
0 to +120°C only	97/625/0	97/645/0	97/665/0	96/625/0	96/645/0	96/665/0
0 to +120°C&F	97/626/0	97/646/0	97/666/0	96/626/0	96/646/0	96/666/0
0 to +160°C only	97/627/0	97/647/0	97/667/0	96/627/0	96/647/0	96/667/0
0 to +160°C&F	97/628/0	97/648/0	97/668/0	96/628/0	96/648/0	96/668/0
0 to +200°C&F	97/630/0	97/650/0	97/671/0	96/630/0	96/650/0	96/670/0
0 to +250°C only	97/629/0	97/649/0	97/670/0	96/629/0	96/649/0	96/669/0

Range	150mm Diameter Product Numbers					
	Bottom Connection			Back Connection		
	100mm Stem 50mm Pocket	150mm Stem 100mm Pocket	200mm Stem 150mm Pocket	100mm Stem 50mm Pocket	150mm Stem 100mm Pocket	200mm Stem 150mm Pocket
-40 to +40°C only	97/921/0	97/941/0	97/961/0	96/921/0	96/941/0	96/961/0
-40 to +40°C&F	97/922/0	97/942/0	97/962/0	96/922/0	96/942/0	96/962/0
-20 to +60°C only	97/923/0	97/943/0	97/963/0	96/923/0	96/943/0	96/963/0
-20 to +60°C&F	97/924/0	97/944/0	97/964/0	96/924/0	96/944/0	96/964/0
0 to +120°C only	97/925/0	97/945/0	97/965/0	96/925/0	96/945/0	96/965/0
0 to +120°C&F	97/926/0	97/946/0	97/966/0	96/926/0	96/946/0	96/966/0
0 to +160°C only	97/927/0	97/947/0	97/967/0	96/927/0	96/947/0	96/967/0
0 to +160°C&F	97/928/0	97/948/0	97/968/0	96/928/0	96/948/0	96/968/0
0 to +200°C&F	97/929/0	97/949/0	97/969/0	96/929/0	96/949/0	96/969/0
0 to +250°C only	97/930/0	97/950/0	97/970/0	96/930/0	96/950/0	96/970/0

## Calibration Product Numbers



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

# Black Case Expansion Dial Thermometers with Capillary - XT025



## Features

- Thermometer with stainless steel bezel and capillary stem
- High quality liquid expansion measuring system
- 150mm dials with back flange for surface mounting and 100mm dials with choice of back flange or front flange for panel mounting.
- Plastic coated bronze or full copper capillary (dependant on temperature range)
- Supplied complete with brass pocket
- Choice of temperature ranges and stem lengths
- **Brannan** quality and accuracy
- For dry indoor installations
- Wide range of associated accessories available

## Standard Product Specifications

Dial Diameters	100mm & 150mm
Design	BS EN 13190
Accuracy Class	2
Ranges	-20 to +60°C&F through to 0 to +250°C&F
Case	Black steel
Bezel	304 Stainless Steel
Connection	1/2" BSP bottom connection with back flange or back connection with front flange
Stem Lengths	75mm, 150mm & 200mm
Pockets	50mm, 100mm & 150mm Brass (SS 304 or SS316 available on request)
Capillary	1.5m, 3m & 5m Ranges up to +200°C - plastic coated bronze. Ranges over +200°C - full copper capillary
Sensor Mechanism	Liquid expansion (Kerosene filling)
Window	PMMA
Pointer	Black plastic
Filling	Dry
Operating Temperature	0 to +40°C (Higher or lower ambient temperatures can cause indication errors)
Storage Temperature	-40 to +60°C
Protection	IP 54 (BS EN 60529:1992)
Calibration	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

## Accessories

Please see Accessories section of this catalogue for associated items for use with these thermometers.

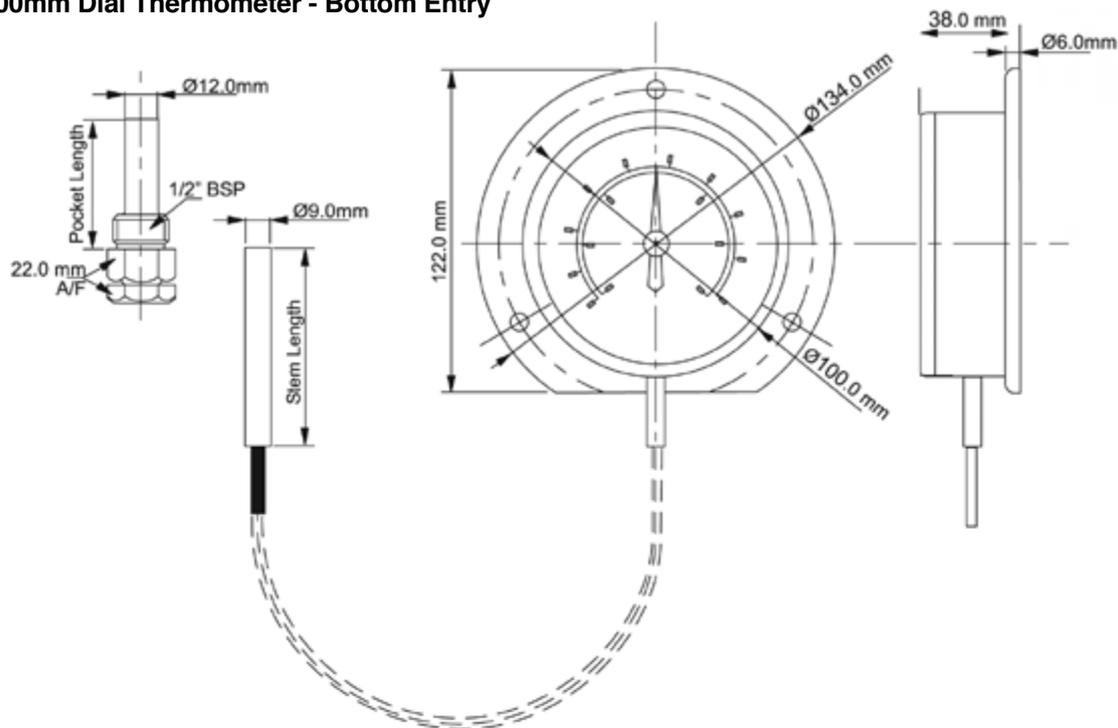
- Pockets
- Self sealing test plugs



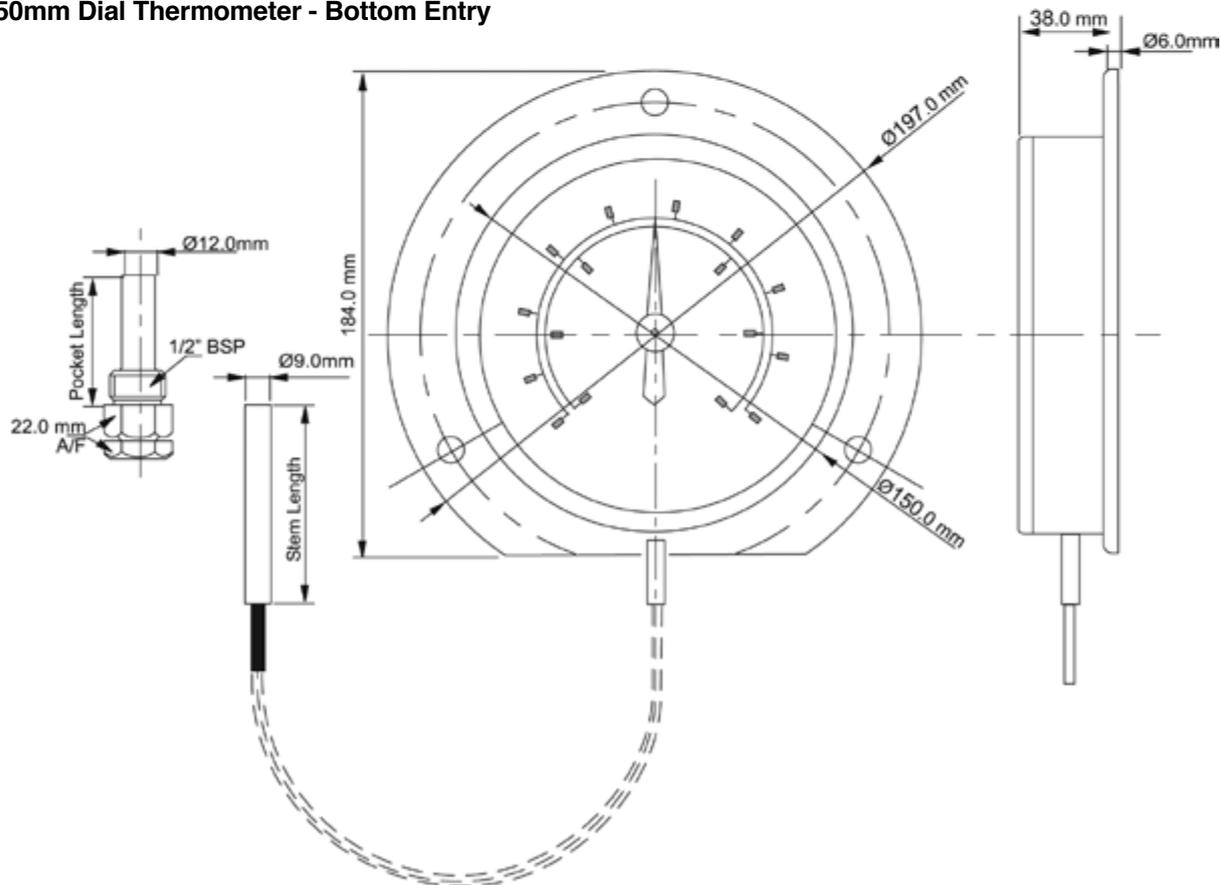
# XT025 - Black Case Expansion Dial Thermometers with Capillary

## Dimensions

### 100mm Dial Thermometer - Bottom Entry



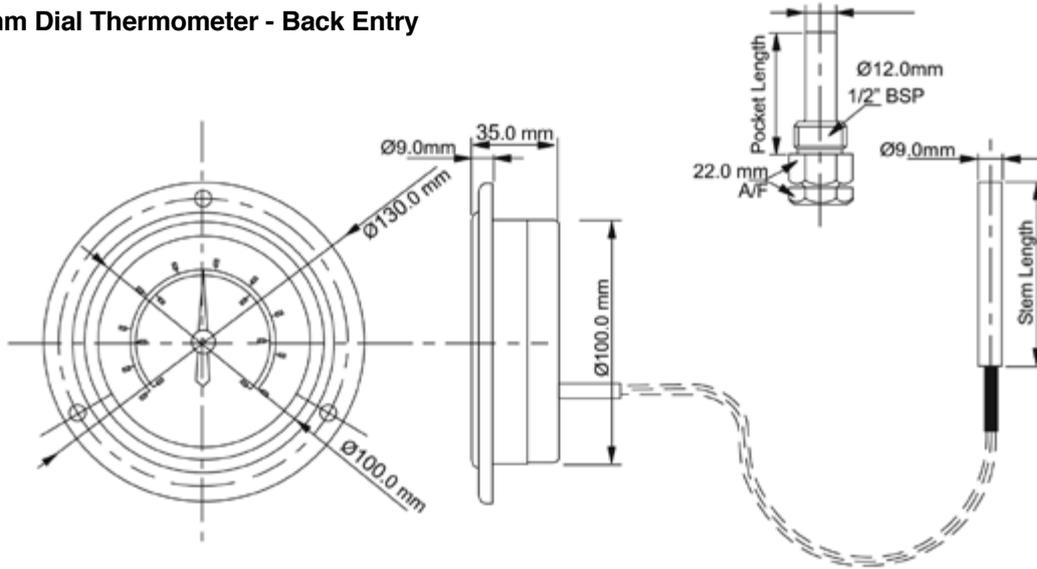
### 150mm Dial Thermometer - Bottom Entry



# Black Case Expansion Dial Thermometers with Capillary - XT025

## Dimensions

### 100mm Dial Thermometer - Back Entry



# XT025 - Black Case Expansion Dial Thermometers with Capillary

## Standard Product Numbers

The following are our standard product numbers. 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.

### 100mm Diameter Dials - Bottom Entry (with back flange)

Range	1.5m Capillary			3m Capillary			5m Capillary		
	75mm Stem/ 50mm Pocket	150mm Stem/ 100mm Pocket	200mm Stem/ 150mm Pocket	75mm Stem/ 50mm Pocket	150mm Stem/ 100mm Pocket	200mm Stem/ 150mm Pocket	75mm Stem/ 50mm Pocket	150mm Stem/ 100mm Pocket	200mm Stem/ 150mm Pocket
-40 to +40°C only	91/621/0	91/621/1	91/621/2	91/631/0	91/631/1	91/631/2	91/651/0	91/651/1	91/651/2
-20 to +60°C&F	91/624/0	91/624/1	91/624/2	91/634/0	91/634/1	91/634/2	91/654/0	91/654/1	91/654/2
0 to +120°C&F	91/626/0	91/626/1	91/626/2	91/636/0	91/636/1	91/636/2	91/656/0	91/656/1	91/656/2
0 to +250°C&F	91/628/0	91/628/1	91/628/2	91/638/0	91/638/1	91/638/2	91/658/0	91/658/1	91/658/2

### 150mm Diameter Dials - Bottom Entry (with back flange)

Range	1.5m Capillary			3m Capillary			5m Capillary		
	75mm Stem/ 50mm Pocket	150mm Stem/ 100mm Pocket	200mm Stem/ 150mm Pocket	75mm Stem/ 50mm Pocket	150mm Stem/ 100mm Pocket	200mm Stem/ 150mm Pocket	75mm Stem/ 50mm Pocket	150mm Stem/ 100mm Pocket	200mm Stem/ 150mm Pocket
-40 to +40°C only	91/921/0	91/921/1	91/921/2	91/931/0	91/931/1	91/931/2	91/951/0	91/951/1	91/951/2
-20 to +60°C&F	91/924/0	91/924/1	91/924/2	91/934/0	91/934/1	91/934/2	91/954/0	91/954/1	91/954/2
0 to +120°C&F	91/926/0	91/926/1	91/926/2	91/936/0	91/936/1	91/936/2	91/956/0	91/956/1	91/956/2
0 to +250°C&F	91/928/0	91/928/1	91/928/2	91/938/0	91/938/1	91/938/2	91/958/0	91/958/1	91/958/2

### 100mm Diameter Dials - Back Entry (with front flange)

Range	1.5m Capillary			3m Capillary			5m Capillary		
	75mm Stem/ 50mm Pocket	150mm Stem/ 100mm Pocket	200mm Stem/ 150mm Pocket	75mm Stem/ 50mm Pocket	150mm Stem/ 100mm Pocket	200mm Stem/ 150mm Pocket	75mm Stem/ 50mm Pocket	150mm Stem/ 100mm Pocket	200mm Stem/ 150mm Pocket
-40 to +40°C only	92/621/0	92/621/1	92/621/2	92/631/0	92/631/1	92/631/2	92/651/0	92/651/1	92/651/2
-20 to +60°C&F	92/624/0	92/624/1	92/624/2	92/634/0	92/634/1	92/634/2	92/654/0	92/654/1	92/654/2
0 to +120°C&F	92/626/0	92/626/1	92/626/2	92/636/0	92/636/1	92/636/2	92/656/0	92/656/1	92/656/2
0 to +250°C&F	92/628/0	92/628/1	92/628/2	92/638/0	92/638/1	92/638/2	92/658/0	92/658/1	92/658/2

## Calibration Product Numbers



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

# Stainless Steel Bimetal Thermometers Heavy Duty Case - BT040



## Features

- Thermometer with 304 stainless steel case and bayonet style bezel
- Choice of temperature ranges, dial diameters and stem lengths
- Every angle option available
- Back, bottom and adjustable connections
- Recalibration screw fitted to back and adjustable connection models
- **Brannan** quality and accuracy
- For outdoor and high humidity installations
- Stainless steel pockets can be supplied as extra to customer specifications (please enquire for details)
- Wide range of associated accessories available

## Standard Product Specifications

<b>Dial Diameters</b>	75mm, 100mm & 150mm
<b>Design</b>	BS EN 13190
<b>Accuracy Class</b>	2
<b>Ranges</b>	-30 to +70°C&F through to 0 to +300°C&F
<b>Case</b>	Stainless Steel AISI 304
<b>Bezel</b>	Stainless Steel AISI 304
<b>Connection</b>	1/2" BSP Stainless Steel, bottom, back & adjustable connection (NPT & BSPT on request)
<b>Stem</b>	100mm 304 stainless steel (316 stainless steel available on request) (available on request - 63mm, 80mm, 150mm, 200mm, 300mm, 500mm, etc)
<b>Sensor Mechanism</b>	Standard bimetal coil
<b>Window</b>	Glass
<b>Pointer</b>	Black Aluminium
<b>Filling</b>	Dry (glycerine filled available on request)
<b>Protection</b>	IP 54
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

## Accessories

Please see Accessories section of this catalogue for associated items for use with these thermometers.

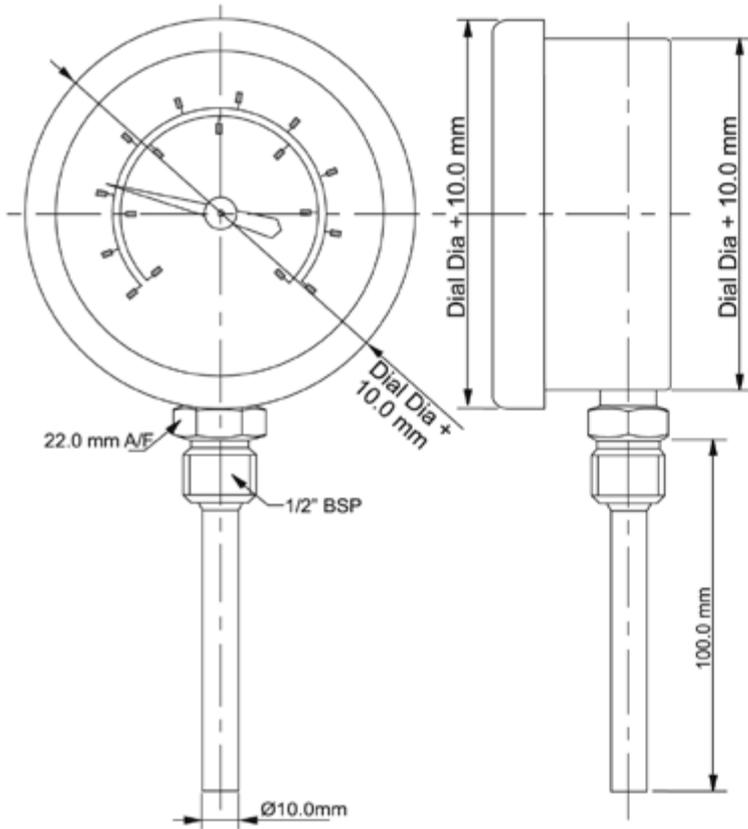
- Pockets
- Self sealing test plugs



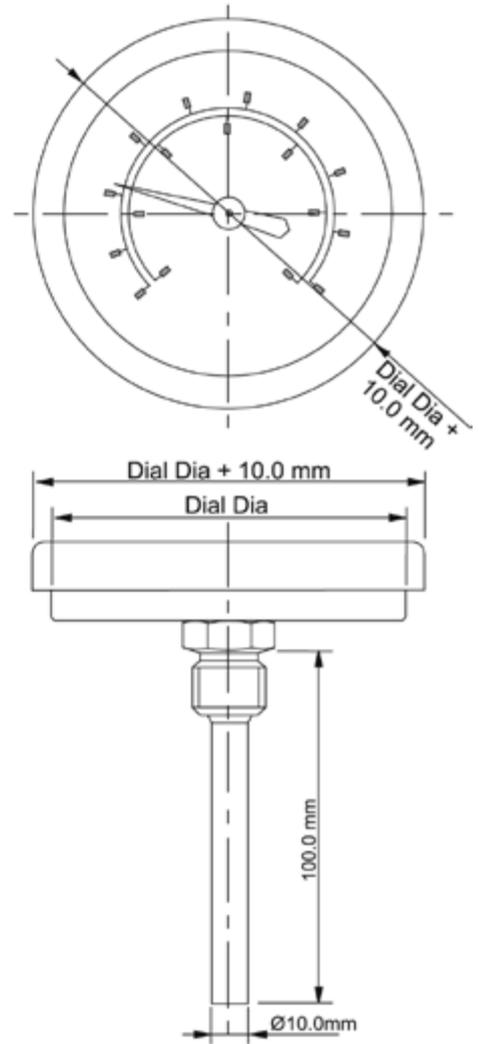
# BT040 - Stainless Steel Bimetal Thermometers Heavy Duty Case

## Dimensions

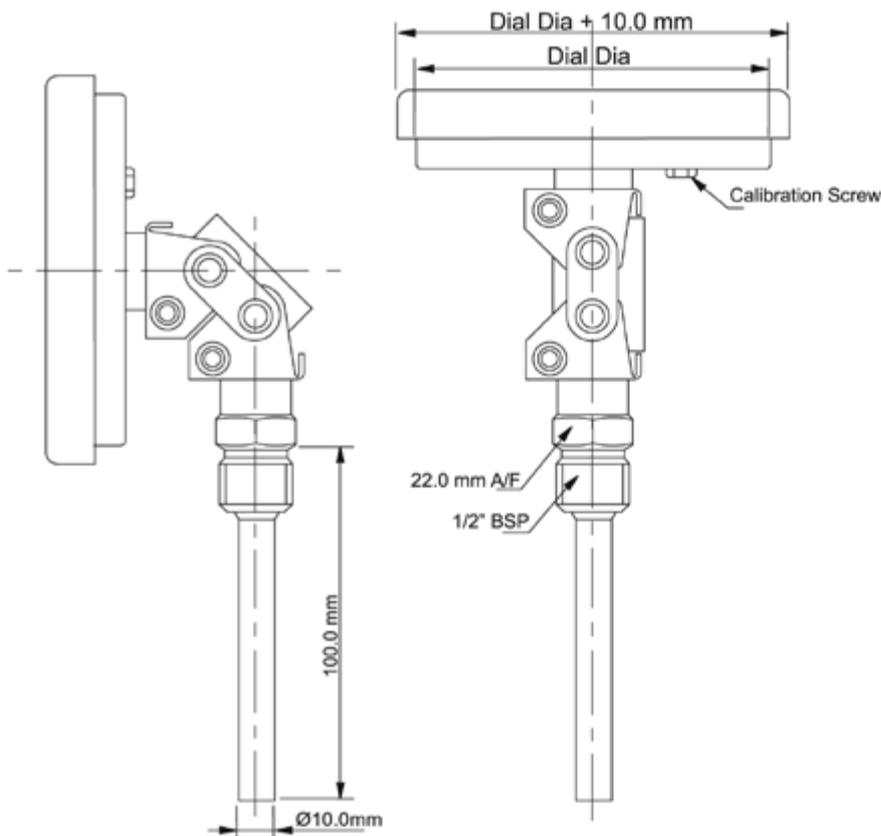
### Dial Thermometer - Bottom Entry



### Dial Thermometer - Back Entry



### Dial Thermometer - Adjustable Entry



# Stainless Steel Bimetal Thermometers Heavy Duty Case - BT040

## Standard Product Numbers

The following are our standard product numbers. 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.

## Standard Product Numbers

Range	Bottom Connection			Back Connection			Adjustable Connection		
	Dial Diameter			Dial Diameter			Dial Diameter		
	75mm	100mm	150mm	75mm	100mm	150mm	75mm	100mm	150mm
-30 to +70°C only	100/001/0	100/101/0	100/201/0	100/011/0	100/111/0	100/211/0	100/021/0	100/121/0	100/221/0
-30 to +70°C&F	100/002/0	100/102/0	100/202/0	100/012/0	100/112/0	100/212/0	100/022/0	100/122/0	100/222/0
0 to +120°C only	100/003/0	100/103/0	100/203/0	100/013/0	100/113/0	100/213/0	100/023/0	100/123/0	100/223/0
0 to +120°C&F	100/004/0	100/104/0	100/204/0	100/014/0	100/114/0	100/214/0	100/024/0	100/124/0	100/224/0
0 to +200°C only	100/005/0	100/105/0	100/205/0	100/015/0	100/115/0	100/215/0	100/025/0	100/125/0	100/225/0
0 to +200°C&F	100/006/0	100/106/0	100/206/0	100/016/0	100/116/0	100/216/0	100/026/0	100/126/0	100/226/0
0 to +250°C only	100/007/0	100/107/0	100/207/0	100/017/0	100/117/0	100/217/0	100/027/0	100/127/0	100/227/0
0 to +250°C&F	100/008/0	100/108/0	100/208/0	100/018/0	100/118/0	100/218/0	100/028/0	100/128/0	100/228/0
0 to +300°C only	100/009/0	100/109/0	100/209/0	100/019/0	100/119/0	100/219/0	100/029/0	100/129/0	100/229/0
0 to +300°C&F	100/010/0	100/110/0	100/210/0	100/020/0	100/120/0	100/220/0	100/030/0	100/130/0	100/230/0

## Calibration Product Numbers



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

# BT045 - Stainless Steel Bimetal Thermometers Slim Case



## Features

- Thermometer with 304 stainless steel case and crimped bezel
- Choice of temperature ranges, dial diameters and stem lengths
- Every angle option available
- Back, bottom and adjustable connections available
- Recalibration screw fitted to back and adjustable connection models
- **Brannan** quality and accuracy
- For outdoor and high humidity installations
- Stainless steel pockets can be supplied as extra to customer specifications (please enquire for details)
- Wide range of associated accessories available

## Standard Product Specifications

<b>Dial Diameters</b>	75mm, 100mm & 150mm
<b>Design</b>	ASME B40.200 Compliant
<b>Accuracy Class</b>	+/-1°C
<b>Ranges</b>	-30 to +70°C&F through to 0 to +300°C&F
<b>Case</b>	Stainless Steel AISI 304
<b>Bezel</b>	Stainless Steel AISI 304
<b>Connection</b>	1/2" BSP Stainless Steel, bottom, back & adjustable connection (NPT & BSPT on request)
<b>Stem</b>	100mm (50mm, 150mm, 200mm, 250mm or 300mm available on request) 304 stainless steel (316 also available on request)
<b>Sensor Mechanism</b>	Standard bimetal coil
<b>Window</b>	Glass
<b>Pointer</b>	Black Aluminium
<b>Filling</b>	Dry (glycerine filled available on request)
<b>Protection</b>	IP 54
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

## Accessories

Please see Accessories section of this catalogue for associated items for use with these thermometers.

- Pockets
- Self sealing test plugs





# BT045 - Stainless Steel Bimetal Thermometers Slim Case

## Standard Product Numbers

The following are our standard product numbers. 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.

## Standard Product Numbers

Range	Bottom Connection Dial Diameter			Back Connection Dial Diameter			Adjustable Connection Dial Diameter		
	75mm	100mm	150mm	75mm	100mm	150mm	75mm	100mm	150mm
-30 to +70°C only	101/001/0	101/101/0	101/201/0	101/011/0	101/111/0	101/211/0	101/021/0	101/121/0	101/221/0
-30 to +70°C&F	101/002/0	101/102/0	101/202/0	101/012/0	101/112/0	100/212/0	101/022/0	101/122/0	101/222/0
0 to +120°C only	101/003/0	101/103/0	101/203/0	101/013/0	101/113/0	101/213/0	101/023/0	101/123/0	101/223/0
0 to +120°C&F	101/004/0	101/104/0	101/204/0	101/014/0	101/114/0	101/214/0	101/024/0	101/124/0	101/224/0
0 to +200°C only	101/005/0	101/105/0	101/205/0	101/015/0	101/115/0	101/215/0	101/025/0	101/125/0	101/225/0
0 to +200°C&F	101/006/0	101/106/0	101/206/0	101/016/0	101/116/0	101/216/0	101/026/0	101/126/0	101/226/0
0 to +250°C only	101/007/0	101/107/0	101/207/0	101/017/0	101/117/0	101/217/0	101/027/0	101/127/0	101/227/0
0 to +250°C&F	101/008/0	101/108/0	101/208/0	101/018/0	101/118/0	101/218/0	101/028/0	101/128/0	101/228/0
0 to +300°C only	101/009/0	101/109/0	101/209/0	101/019/0	101/119/0	101/219/0	101/029/0	101/129/0	101/229/0
0 to +300°C&F	101/010/0	101/110/0	101/210/0	101/020/0	101/120/0	101/220/0	101/030/0	101/130/0	101/230/0

## 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

# Stainless Steel Expansion Dial Thermometers with Bezel - XT040



## Features

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

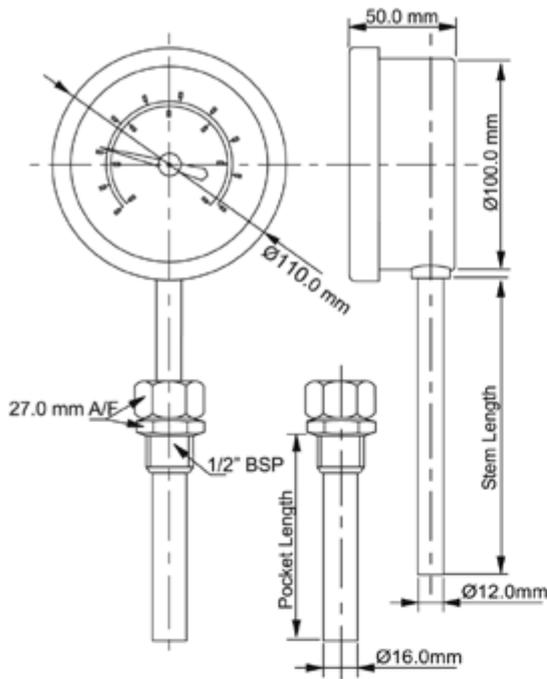
## Standard Product Specifications

<b>Dial Diameters</b>	100mm & 150mm
<b>Design</b>	BS EN 13190
<b>Accuracy Class</b>	2
<b>Ranges</b>	-40 to +40°C&F through to 0 to +250°C&F
<b>Case</b>	304 Stainless steel
<b>Bezel</b>	304 Stainless steel
<b>Seal</b>	74 shore D polyurethane
<b>Connection</b>	1/2" BSP bottom or back entry
<b>Stem Lengths</b>	140mm, 200mm & 250mm
<b>Pocket Lengths</b>	63mm, 100mm & 150mm
<b>Sensor Mechanism</b>	Liquid expansion (Kerosene filling)
<b>Window</b>	Glass
<b>Pointer</b>	Black plastic
<b>Filling</b>	Dry
<b>Operating Temperature</b>	0 to +40°C (Higher or lower ambient temperatures can cause indication errors)
<b>Storage Temperature</b>	-40 to +60°C
<b>Protection</b>	IP67
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

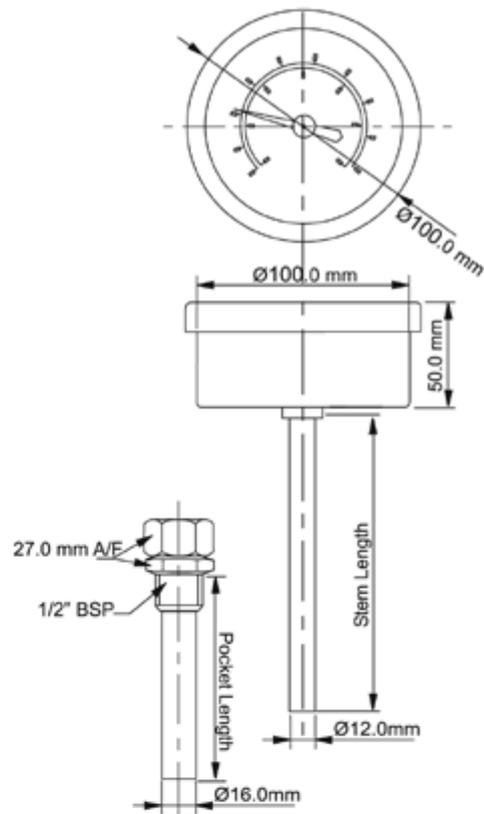
# XT040 - Stainless Steel Expansion Dial Thermometers with Bezel

## Dimensions

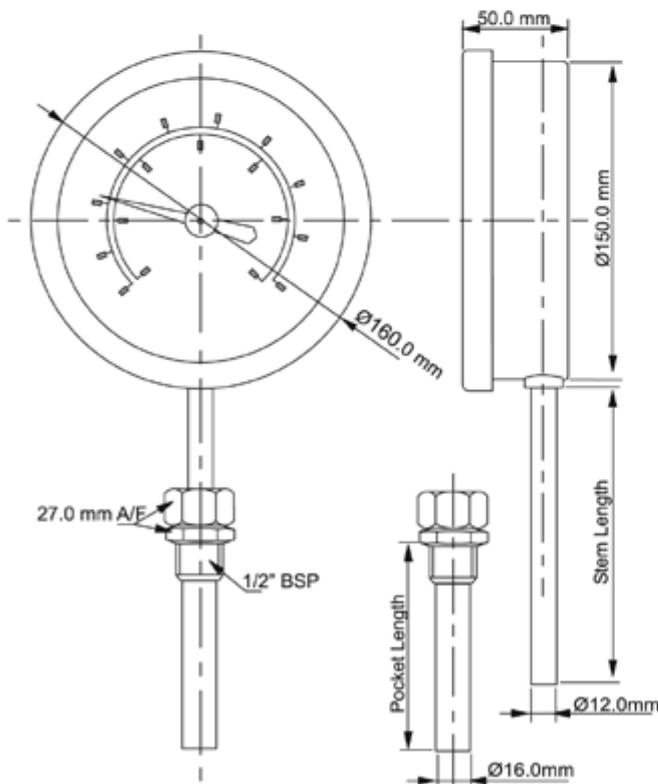
### 100mm Dial Thermometer - Bottom Entry



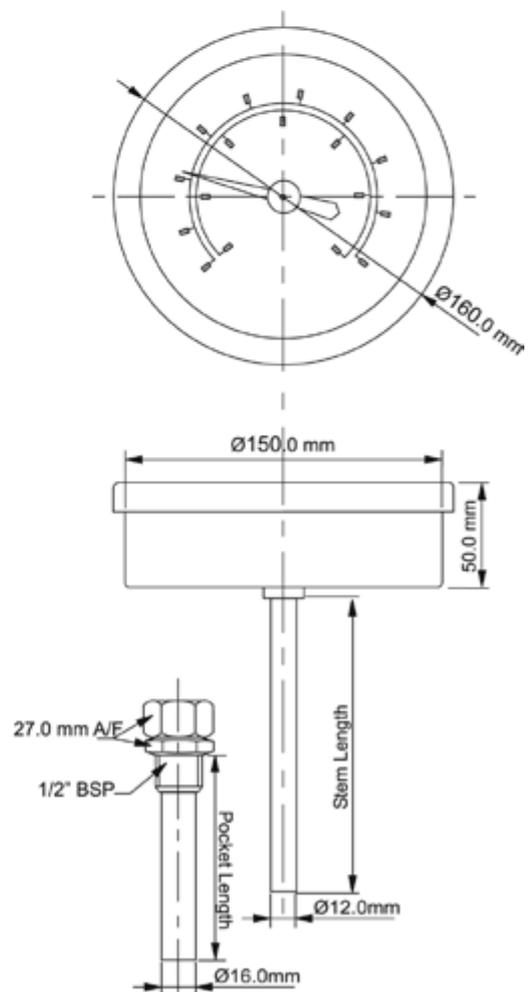
### 100mm Dial Thermometer - Back Entry



### 150mm Dial Thermometer - Bottom Entry



### 150mm Dial Thermometer - Back Entry



# Stainless Steel Expansion Dial Thermometers with Bezel - XT040

## Standard Product Numbers

The following are our standard product numbers for dial thermometers supplied complete with 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 Dials - Supplied with Pocket

Range	Stem(S) Length / Pocket(P) Length							
	Bottom Entry				Back Entry			
	S=140mm P=63mm	S=140mm P=100mm	S=200mm P=150mm	S=250mm P=150mm	S=140mm P=63mm	S=140mm P=100mm	S=200mm P=150mm	S=250mm P=150mm
-40 to +40°C only	300/621/0	300/641/0	300/661/0	300/681/0	301/621/0	301/641/0	301/661/0	301/681/0
-40 to +40°C&F	300/622/0	300/642/0	300/662/0	300/682/0	301/622/0	301/642/0	301/662/0	301/682/0
-20 to +60°C only	300/623/0	300/643/0	300/663/0	300/683/0	301/623/0	301/643/0	301/663/0	301/683/0
-20 to +60°C&F	300/624/0	300/644/0	300/664/0	300/684/0	301/624/0	301/644/0	301/664/0	301/684/0
0 to +120°C only	300/625/0	300/645/0	300/665/0	300/685/0	301/625/0	301/645/0	301/665/0	301/685/0
0 to +120°C&F	300/626/0	300/646/0	300/666/0	300/686/0	301/626/0	301/646/0	301/666/0	301/686/0
0 to +160°C only	300/627/0	300/647/0	300/667/0	300/687/0	301/627/0	301/647/0	301/667/0	301/687/0
0 to +160°C&F	300/628/0	300/648/0	300/668/0	300/688/0	301/628/0	301/648/0	301/668/0	301/688/0
0 to +200°C only	300/629/0	300/649/0	300/669/0	300/689/0	301/629/0	301/649/0	301/669/0	301/689/0
0 to +200°C&F	300/630/0	300/650/0	300/670/0	300/690/0	301/630/0	301/650/0	301/670/0	301/690/0
0 to +250°C only	300/631/0	300/651/0	300/671/0	300/691/0	301/631/0	301/651/0	301/671/0	301/691/0
0 to +250°C&F	300/632/0	300/652/0	300/672/0	300/692/0	301/632/0	301/652/0	301/672/0	301/692/0

### 150mm Diameter Dials - Supplied with Pocket

Range	Stem(S) Length / Pocket(P) Length							
	Bottom Entry				Back Entry			
	S=140mm P=63mm	S=140mm P=100mm	S=200mm P=150mm	S=250mm P=150mm	S=140mm P=63mm	S=140mm P=100mm	S=200mm P=150mm	S=250mm P=150mm
-40 to +40°C only	300/921/0	300/941/0	300/961/0	300/981/0	301/921/0	301/941/0	301/961/0	301/981/0
-40 to +40°C&F	300/922/0	300/942/0	300/962/0	300/982/0	301/922/0	301/942/0	301/962/0	301/982/0
-20 to +60°C only	300/923/0	300/943/0	300/963/0	300/983/0	301/923/0	301/943/0	301/963/0	301/983/0
-20 to +60°C&F	300/924/0	300/944/0	300/964/0	300/984/0	301/924/0	301/944/0	301/964/0	301/984/0
0 to +120°C only	300/925/0	300/945/0	300/965/0	300/985/0	301/925/0	301/945/0	301/965/0	301/985/0
0 to +120°C&F	300/926/0	300/946/0	300/966/0	300/986/0	301/926/0	301/946/0	301/966/0	301/986/0
0 to +160°C only	300/927/0	300/947/0	300/967/0	300/987/0	301/927/0	301/947/0	301/967/0	301/987/0
0 to +160°C&F	300/928/0	300/948/0	300/968/0	300/988/0	301/928/0	301/948/0	301/968/0	301/988/0
0 to +200°C only	300/929/0	300/949/0	300/969/0	300/989/0	301/929/0	301/949/0	301/969/0	301/989/0
0 to +200°C&F	300/930/0	300/950/0	300/970/0	300/990/0	301/930/0	301/950/0	301/970/0	301/990/0
0 to +250°C only	300/931/0	300/951/0	300/971/0	300/991/0	301/931/0	301/951/0	301/971/0	301/991/0
0 to +250°C&F	300/932/0	300/952/0	300/972/0	300/992/0	301/932/0	301/952/0	301/972/0	301/992/0

## Calibration Product Numbers



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

# XT040 - Stainless Steel Expansion Dial Thermometers with Bezel

## Standard Product Numbers

The following are our standard product numbers for dial thermometers supplied complete with 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 Dials - Supplied with Sliding Union (no pocket)

Range	Bottom Connection			Back Connection		
	140mm Stem	200mm Stem	250mm Stem	140mm Stem	200mm Stem	250mm Stem
-40 to +40°C only	310/641/0	310/661/0	310/681/0	311/641/0	311/661/0	311/681/0
-40 to +40°C&F	310/642/0	310/662/0	310/682/0	311/642/0	311/662/0	311/682/0
-20 to +60°C only	310/643/0	310/663/0	310/683/0	311/643/0	311/663/0	311/683/0
-20 to +60°C&F	310/644/0	310/664/0	310/684/0	311/644/0	311/664/0	311/684/0
0 to +120°C only	310/645/0	310/665/0	310/685/0	311/645/0	311/665/0	311/685/0
0 to +120°C&F	310/646/0	310/666/0	310/686/0	311/646/0	311/666/0	311/686/0
0 to +160°C only	310/647/0	310/667/0	310/687/0	311/647/0	311/667/0	311/687/0
0 to +160°C&F	310/648/0	310/668/0	310/688/0	311/648/0	311/668/0	311/688/0
0 to +200°C only	310/649/0	310/669/0	310/689/0	311/649/0	311/669/0	311/689/0
0 to +200°C&F	310/650/0	310/670/0	310/690/0	311/650/0	311/670/0	311/690/0
0 to +250°C only	310/651/0	310/671/0	310/691/0	311/651/0	311/671/0	311/691/0
0 to +250°C&F	310/652/0	310/672/0	310/692/0	311/652/0	311/672/0	311/692/0

### 150mm Diameter Dials - Supplied with Sliding Union (no pocket)

Range	Bottom Connection			Back Connection		
	140mm Stem	200mm Stem	250mm Stem	140mm Stem	200mm Stem	250mm Stem
-40 to +40°C only	310/941/0	310/961/0	310/981/0	311/941/0	311/961/0	311/981/0
-40 to +40°C&F	310/942/0	310/962/0	310/982/0	311/942/0	311/962/0	311/982/0
-20 to +60°C only	310/943/0	310/963/0	310/983/0	311/943/0	311/963/0	311/983/0
-20 to +60°C&F	310/944/0	310/964/0	310/984/0	311/944/0	311/964/0	311/984/0
0 to +120°C only	310/945/0	310/965/0	310/985/0	311/945/0	311/965/0	311/985/0
0 to +120°C&F	310/946/0	310/966/0	310/986/0	311/946/0	311/966/0	311/986/0
0 to +160°C only	310/947/0	310/967/0	310/987/0	311/947/0	311/967/0	311/987/0
0 to +160°C&F	310/948/0	310/968/0	310/988/0	311/948/0	311/968/0	311/988/0
0 to +200°C only	310/949/0	310/969/0	310/989/0	311/949/0	311/969/0	311/989/0
0 to +200°C&F	310/950/0	310/970/0	310/990/0	311/950/0	311/970/0	311/990/0
0 to +250°C only	310/951/0	310/971/0	310/991/0	311/951/0	311/971/0	311/991/0
0 to +250°C&F	310/952/0	310/972/0	310/992/0	311/952/0	311/972/0	311/992/0

## Calibration Product Numbers



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

# Stainless Steel Expansion Thermometers with Capillary - XT045



## 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)

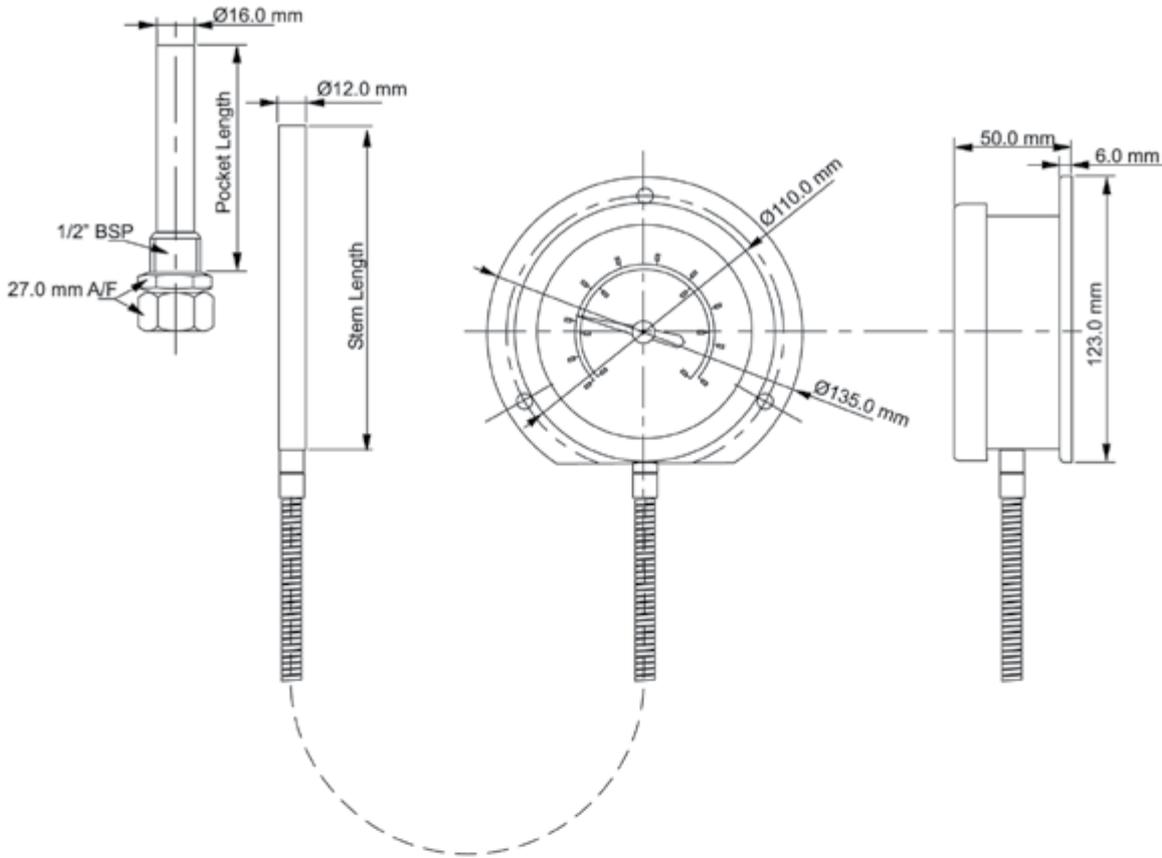
## Standard Product Specifications

<b>Dial Diameters</b>	100mm & 150mm
<b>Design</b>	BS EN 13190
<b>Accuracy Class</b>	2
<b>Ranges</b>	-40 to +40°C&F through to 0 to +250°C&F
<b>Case</b>	304 Stainless Steel case, bezel and back flange
<b>Seal</b>	74 shore D polyurethane
<b>Connection</b>	1/2" BSP bottom connection
<b>Stem Lengths</b>	140mm, 200mm & 250mm
<b>Pocket Lengths</b>	63mm, 100mm & 150mm
<b>Capillary</b>	1.5m, 3m & 5m stainless interlocking (plastic coated bronze also available for temperature ranges up to 120°C)
<b>Sensor Mechanism</b>	Liquid expansion (Kerosene filling)
<b>Window</b>	PMMA
<b>Pointer</b>	Black plastic
<b>Filling</b>	Dry
<b>Operating Temperature</b>	0 to +40°C (Higher or lower ambient temperatures can cause indication errors)
<b>Storage Temperature</b>	-40 to +60°C
<b>Protection</b>	IP 67
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

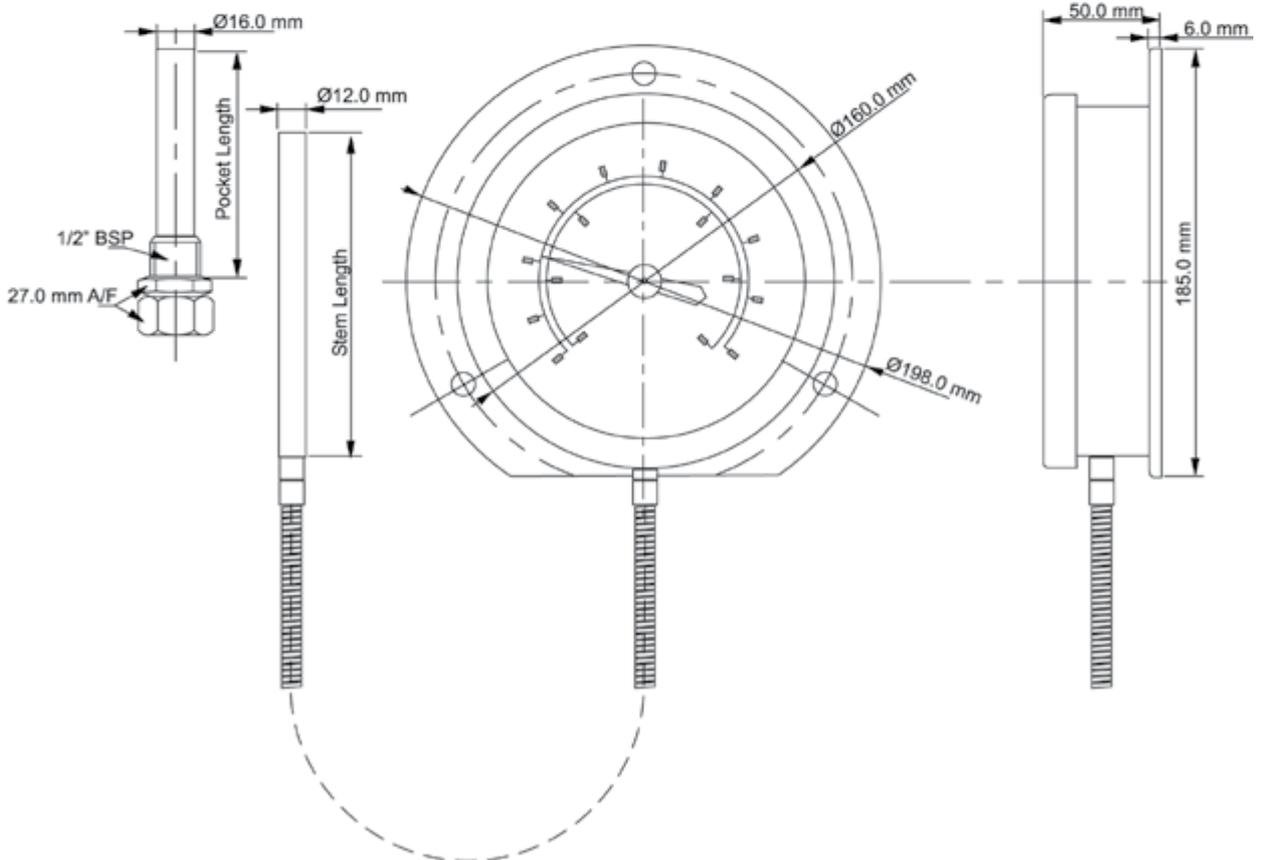
# XT045 - Stainless Steel Expansion Thermometers with Capillary

## Dimensions

### 100mm Dial Thermometer - Bottom Entry



### 150mm Dial Thermometer - Bottom Entry



# Stainless Steel Expansion Thermometers with Capillary - XT045

## 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 Dials with 1.5m Capillary

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 Dials with 3m Capillary

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

### 100mm Diameter Dials with 5m Capillary

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



# XT045 - Stainless Steel Expansion Thermometers with Capillary

## 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 Dials with 1.5m Capillary

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

### 150mm Diameter Dials with 3m Capillary

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	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 Dials with 5m Capillary

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

# Marine - Diesel Engine Exhaust Thermometers - MT010



## Features

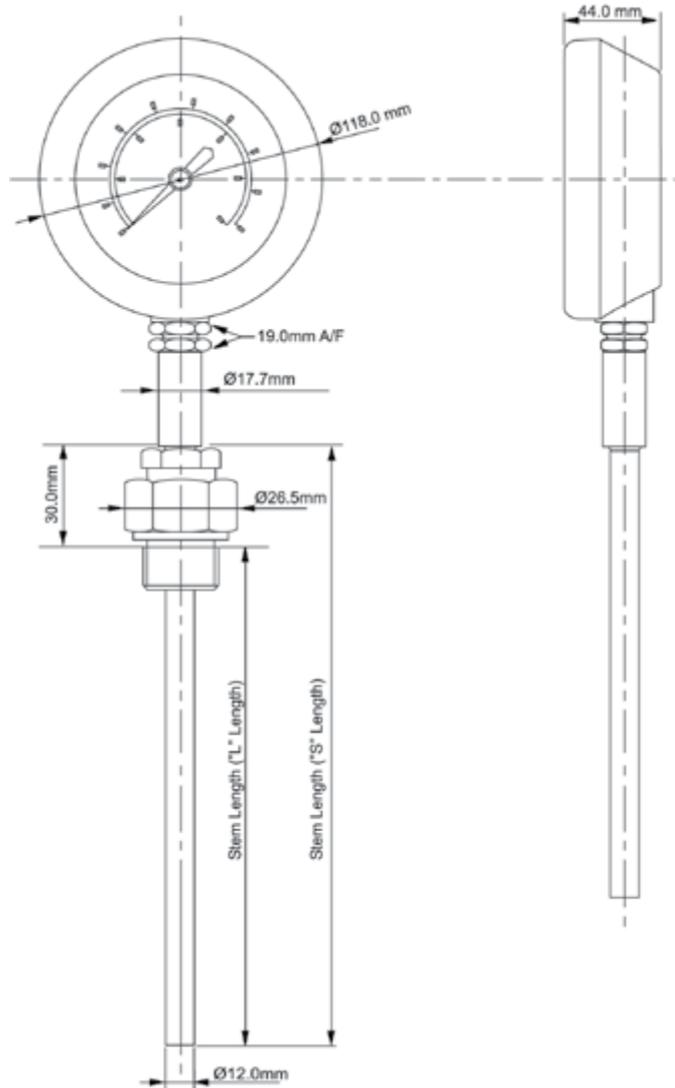
- Silicone oil filled exhaust gas thermometer
- Environmentally friendly
- Stainless steel sliding union available on request to customer choice of connection
- Wide choice of temperature ranges and stem lengths
- **Brannan** quality and accuracy
- Silicone oil protects against vibration using to ensure the maximum life under the most severe conditions
- Stainless steel pockets can be supplied as extra to customer specifications (please enquire for details)

## Standard Product Specifications

<b>Dial Diameter</b>	100mm
<b>Accuracy</b>	+/- 2.5% of full scale
<b>Range</b>	+50 to +650°C&F
	(0 to +120°C&F, 0 to +160°C&F, 0 to +200°C&F and 0 to +250°C&F available on request)
<b>Case</b>	Black painted die-cast aluminium case and bezel
<b>Connection</b>	Bottom connection (back connection available on request)
<b>Stem</b>	Plain stem
<b>Sliding Union (extra)</b>	1/2", 3/4" or 3/8" BSP sliding union in 304 (or 316) stainless steel supplied on request
<b>Stem Length</b>	100mm through to 600mm below union
<b>Stem Diameter</b>	12mm (10mm, 13mm or 16mm available on request)
<b>Measuring System</b>	N <sub>2</sub>
<b>Window</b>	Glass
<b>Pointer</b>	Black plastic
<b>Filling</b>	Silicone (dry available on request)
<b>Max Working Temp</b>	Full scale value at continuous operation
<b>Protection</b>	IP 65
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if require

# MT010 - Marine - Diesel Engine Exhaust Thermometers

## Dimensions



### Standard Product Numbers

The following are our standard product numbers. 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.

Stem Length (L)	Product Number
100mm	93/400/0
150mm	93/400/1
200mm	93/400/2
250mm	93/400/3
300mm	93/400/4
350mm	93/400/5
400mm	93/400/6
450mm	93/400/7
500mm	93/400/8
600mm	93/400/9

Sliding connections to suit 12mm stems:

Thread	Product Number
1/2"	39/437/0
3/4"	39/438/0
3/8"	39/439/0

### Calibration Product Numbers



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

# Marine - Capillary Exhaust Thermometers - MT020



## Features

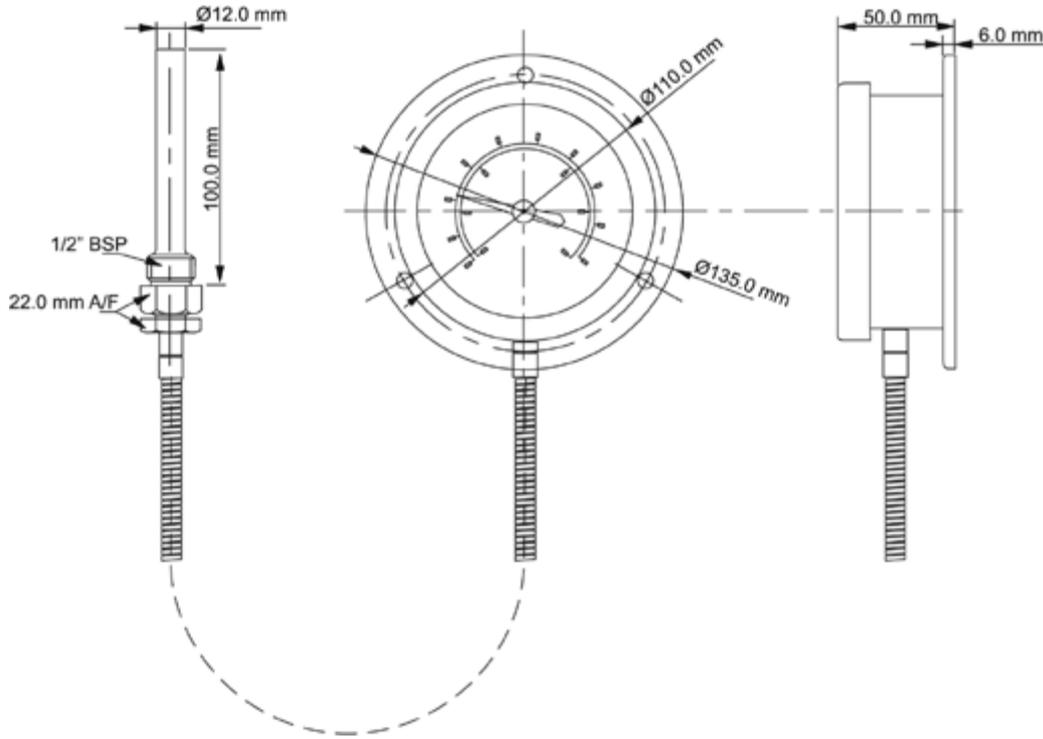
- Remote reading diesel engine exhaust gas thermometer
- Environmentally friendly
- Supplied complete with interlocking flexible capillary
- Stainless steel sliding union
- Wide choice of temperature ranges and capillary lengths
- **Brannan** quality and accuracy
- Silicone oil protects against vibration using to ensure the maximum life under the most severe conditions.
- Stainless steel pockets can be supplied as extra to customer specifications (please enquire for details)

## Standard Product Specifications

<b>Dial Diameter</b>	100mm (150mm optional)
<b>Accuracy</b>	+/- 1.5% of full scale
<b>Range</b>	+50 to +650°C&F (0 to +120°C&F, 0 to +160°C&F, 0 to +200°C&F and 0 to +250°C&F available on request)
<b>Case</b>	304 Stainless steel
<b>Connection</b>	1/2" BSP 304 stainless steel sliding union (316 available on request) bottom connection (plain stem, without sliding union, available on request)
<b>Capillary</b>	Interlocking flexible capillary (solid stem available on request) 2m through to 15m lengths 304 Stainless steel
<b>Stem Length</b>	100mm below union (other lengths available on request)
<b>Stem Diameter</b>	12mm (10mm, 13mm or 16mm available on request)
<b>Measuring System</b>	N <sub>2</sub>
<b>Window</b>	Glass
<b>Pointer</b>	Black plastic
<b>Filling</b>	Silicone (dry available on request)
<b>Max Working Temp</b>	Full scale value at continuous operation
<b>Protection</b>	IP 65
<b>Calibration</b>	UKAS certification, certificate traceable to Recognised National Standard or Statement of Conformity, if required

# MT020 - Marine - Capillary Exhaust Thermometers

## Dimensions

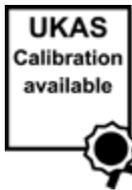


## Standard Product Numbers

The following are our standard product numbers. 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.

Capillary Length	Product Number
2m	93/420/1
3m	93/420/2
5m	93/420/3
7m	93/420/4
10m	93/420/5
12m	93/420/6
15m	93/420/7

## Calibration Product Numbers



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

## Clip on Pipe Thermometers - BT050



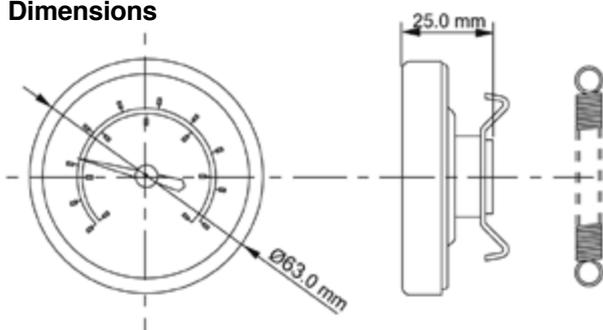
### Features:

- Thermometer for pipe surface temperature measurement
- Low price and easy installation
- Supplied with spring for attaching thermometer to pipe
- Suitable for pipe diameters from 20mm to 50mm
- **Brannan** quality and accuracy
- Available in plastic (with or without bezel) or metal case
- For hot and chilled water pipes

### Standard Product Specifications

Dial Diameters	63mm
Design	BS EN 13190
Accuracy	+/-4°C
Ranges	-40 to +40°C&F through to 0 to +200°C&F
Case	Plastic case and window and chrome bezel (33/402/0 - glass window) Metal case with glass window and stainless steel bezel
Pointer	Black plastic
Filling	Dry
Sensor Mechanism	Standard bimetal coil

### Dimensions



### Standard Product Numbers

Case Material	Range	Product No
Plastic	0 to +120°C&F	33/401/0
	0 to +200°C&F	33/402/0
Plastic - no bezel	0 to +120°C&F	33/404/0
Metal	-40 to +40°C&F	33/403/0
	0 to +120°C&F	33/501/0

## Magnetic Surface Thermometers - BT055



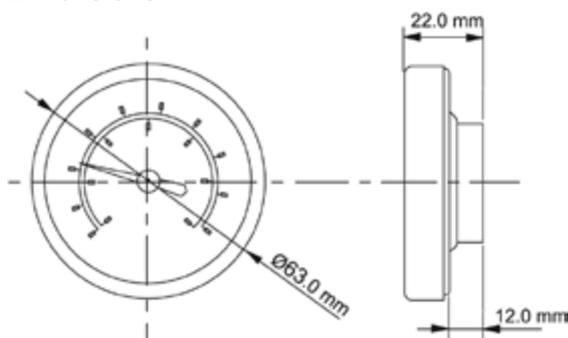
### Features:

- Thermometer with large magnet for attaching to flat surface
- Low price and easy installation
- **Brannan** quality and accuracy
- For radiators and hot surfaces

### Standard Product Specifications

Dial Diameters	63mm
Design	BS EN 13190
Accuracy	+/-4°C
Ranges	-50 to +50°C&F through to 0 to +200°C&F
Case	Steel case and bezel
Window	Glass
Pointer	Black plastic
Filling	Dry
Sensor Mechanism	Standard bimetal coil

### Dimensions



### Standard Product Numbers

Range	Product No
-50 to +50°C&F	33/411/0
0 to +120°C&F	33/409/0
0 to +200°C&F	33/410/0

# CG010 Combined Gauges



## Features

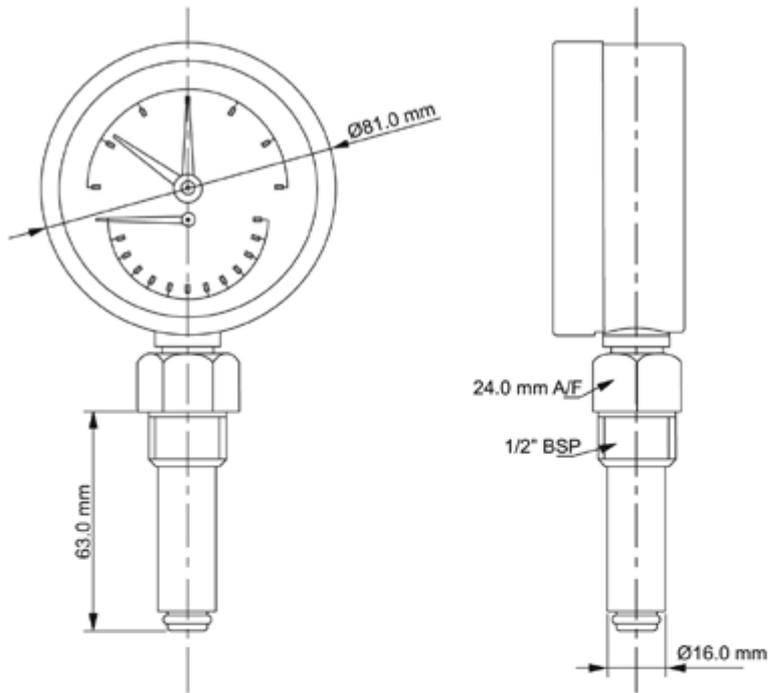
- Low cost solution for temperature and pressure or temperature and altitude measurement
- Supplied with self-sealing brass pocket
- **Brannan** quality and accuracy
- For indoor installations

## Standard Product Specifications

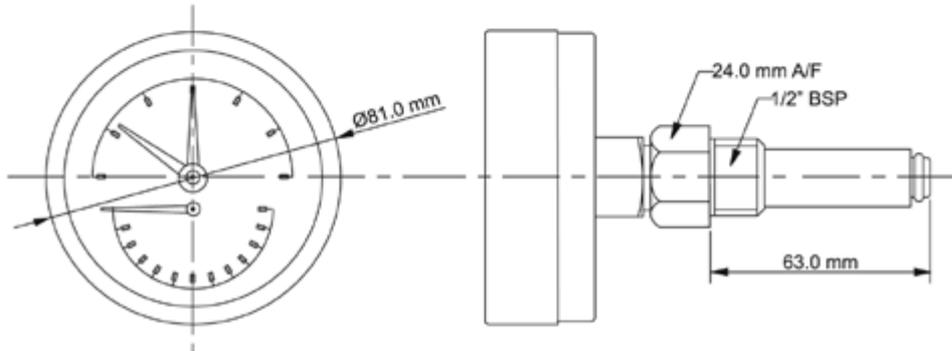
Dial Diameter	80mm
Temp/Pressure Range	0 to +120°C only / 0 to 6 bar only
Temp/Altitude Range	0 to +120°C only and 0 to 30 or 45 metres
Case	Black steel
Window	Clear plastic, snap fit
Bezel	Chrome
Connection	1/2" BSP bottom or back
Pocket	Self-sealing brass
Sensor Mechanism	Bimetal coil, copper alloy bourdon
Pointer	Black aluminium with loose red pointer
Filling	Dry
Working Pressure	Steady: 75% full scale range Fluctuating: 60% full scale range Short Time: full scale range
Operating Temperature	Ambient: -20 to +60°C Medium: -20 to +60°C
Storage Temperature	-40 to +60°C
Temperature Effect	When temperature of the pressure element deviates from reference temperature of 20°C the maximum additional error is +/-0.4 per 10°C of the span rising and falling

## Dimensions

### Combined Gauge - Bottom Entry



### Combined Gauge - Back Entry



## Standard Product Numbers

### Combined Thermometer/Pressure Gauge

Range	Product Number	
	Bottom Entry	Back Entry
0 to +120°C only / 0 to 6 bar	36/618/1	35/618/1

## Standard Product Numbers

### Combined Thermometer/Altitude Gauge

Range	Product Number	
	Bottom Entry	Back Entry
0 to +120°C only / 0 to 30 metres	36/615/1	35/615/1
0 to +120°C only / 0 to 45 metres	36/616/1	35/616/1

# VT010 - Straight V-Line Thermometers

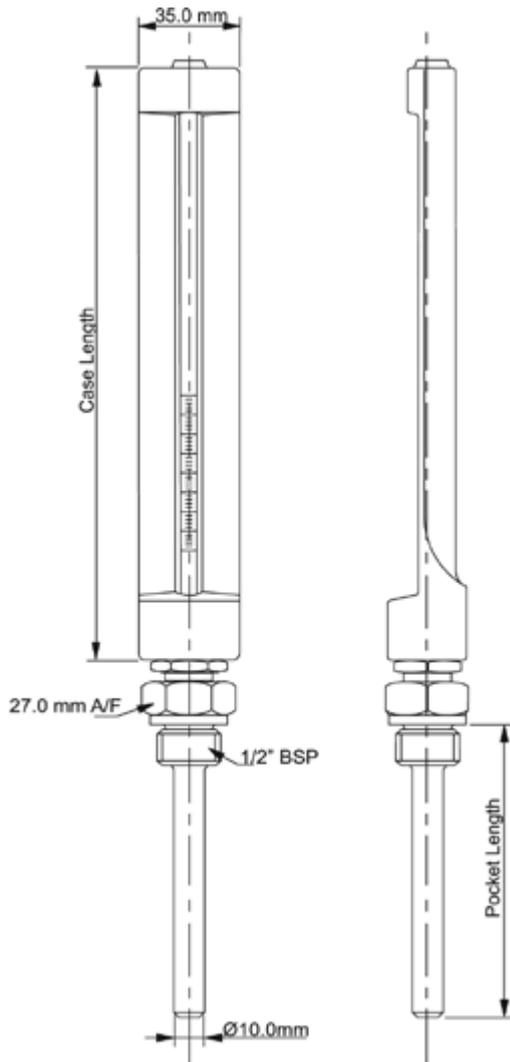
## Features

- Glass thermometer in heavy duty protective housing
- Reliable instrument with no moving parts
- Wide choice of pocket lengths and temperature ranges
- Customer branded products available subject to quantity
- Replacement thermometer tubes available (to order, substitute last digit of product number for "6" ie replacement tube for 81/090/0 is 81/090/6)
- **Brannan** quality and accuracy
- For indoor, outdoor and high humidity installations
- Supplied in individual box

## Standard Product Specifications

Case Lengths	110mm, 150mm & 200mm
Ranges	-30 to +200°C only or °C&F
Case	< +120°C: polypropylene > +160°C: painted aluminium
Form	Straight
Glass Filling	Blue spirit
Connection	1/2" BSP
Pocket	Brass (stainless steel available on request). Screw in.
Pocket Lengths	30mm, 40mm, 50mm, 63mm, 75mm, 100mm, 160mm, 200mm, 250mm x 10mm diameter

## Dimensions



# Straight V-Line Thermometers - VT010

## Standard Product Numbers - 110mm Case

Range	Divs	30mm Pocket	40mm Pocket	50mm Pocket	63mm Pocket	75mm Pocket	100mm Pocket	160mm Pocket	200mm Pocket	250mm Pocket
-30 to +50°C	1°C	87/090/0	87/091/0	87/092/0	87/093/0	87/094/0	87/095/0	87/096/0	87/099/0	87/097/0
-30 to +50°C&F	1°C	87/100/0	87/101/0	87/102/0	87/103/0	87/104/0	87/105/0	87/106/0	87/109/0	87/107/0
0 to +50°C	1°C	87/150/0	87/151/0	87/152/0	87/153/0	87/154/0	87/155/0	87/156/0	87/159/0	87/157/0
0 to +50°C&F	1°C	87/160/0	87/161/0	87/162/0	87/163/0	87/164/0	87/165/0	87/166/0	87/169/0	87/167/0
0 to +60°C	1°C	87/170/0	87/171/0	87/172/0	87/173/0	87/174/0	87/175/0	87/176/0	87/179/0	87/177/0
0 to +60°C&F	1°C	87/140/0	87/141/0	87/142/0	87/143/0	87/144/0	87/145/0	87/146/0	87/149/0	87/147/0
0 to +100°C	1°C	87/190/0	87/191/0	87/192/0	87/193/0	87/194/0	87/195/0	87/196/0	87/199/0	87/197/0
0 to +100°C&F	1°C	87/180/0	87/181/0	87/182/0	87/183/0	87/184/0	87/185/0	87/186/0	87/189/0	87/187/0
0 to +120°C	1°C	87/220/0	87/221/0	87/222/0	87/223/0	87/224/0	87/225/0	87/226/0	87/229/0	87/227/0
0 to +120°C&F	1°C	87/230/0	87/231/0	87/232/0	87/233/0	87/234/0	87/235/0	87/236/0	87/239/0	87/237/0
0 to +160°C	2°C	87/290/0	87/291/0	87/292/0	87/293/0	87/294/0	87/295/0	87/296/0	87/299/0	87/297/0
0 to +160°C&F	2°C	87/300/0	87/301/0	87/302/0	87/303/0	87/304/0	87/305/0	87/306/0	87/309/0	87/307/0
0 to +200°C	2°C	87/320/0	87/321/0	87/322/0	87/323/0	87/324/0	87/325/0	87/326/0	87/329/0	87/327/0
0 to +200°C&F	2°C	87/330/0	87/331/0	87/332/0	87/333/0	87/334/0	87/335/0	87/336/0	87/339/0	87/337/0

## Standard Product Numbers - 150mm Case

Range	Divs	30mm Pocket	40mm Pocket	50mm Pocket	63mm Pocket	75mm Pocket	100mm Pocket	160mm Pocket	200mm Pocket	250mm Pocket
-30 to +50°C	1°C	84/090/0	84/091/0	84/092/0	84/093/0	84/094/0	84/095/0	84/096/0	84/099/0	84/097/0
-30 to +50°C&F	1°C	84/100/0	84/101/0	84/102/0	84/103/0*	84/104/0	84/105/0*	84/106/0*	84/109/0	84/107/0
0 to +50°C	1°C	84/150/0	84/151/0	84/152/0	84/153/0	84/154/0	84/155/0	84/156/0	84/159/0	84/157/0
0 to +50°C&F	1°C	84/160/0	84/161/0	84/162/0	84/163/0	84/164/0	84/165/0	84/166/0	84/169/0	84/167/0
0 to +60°C	1°C	84/170/0	84/171/0	84/172/0	84/173/0	84/174/0	84/175/0	84/176/0	84/179/0	84/177/0
0 to +60°C&F	1°C	84/140/0	84/141/0	84/142/0	84/143/0*	84/144/0	84/145/0*	84/146/0*	84/149/0	84/147/0
0 to +100°C	1°C	84/190/0	84/191/0	84/192/0	84/193/0	84/194/0	84/195/0	84/196/0	84/199/0	84/197/0
0 to +100°C&F	1°C	84/180/0	84/181/0	84/182/0	84/183/0	84/184/0	84/185/0	84/186/0	84/189/0	84/187/0
0 to +120°C	1°C	84/220/0	84/221/0	84/222/0	84/223/0	84/224/0	84/225/0	84/226/0	84/229/0	84/227/0
0 to +120°C&F	1°C	84/230/0	84/231/0	84/232/0	84/233/0*	84/234/0	84/235/0*	84/236/0*	84/239/0	84/237/0
0 to +160°C	2°C	84/290/0	84/291/0	84/292/0	84/293/0	84/294/0	84/295/0	84/296/0	84/299/0	84/297/0
0 to +160°C&F	2°C	84/300/0	84/301/0	84/302/0	84/303/0	84/304/0	84/305/0	84/306/0	84/309/0	84/307/0
0 to +200°C	2°C	84/320/0	84/321/0	84/322/0	84/323/0	84/324/0	84/325/0	84/326/0	84/329/0	84/327/0
0 to +200°C&F	2°C	84/330/0	84/331/0	84/332/0	84/333/0	84/334/0	84/335/0	84/336/0	84/339/0	84/337/0

## Standard Product Numbers - 200mm Case

Range	Divs	30mm Pocket	40mm Pocket	50mm Pocket	63mm Pocket	75mm Pocket	100mm Pocket	160mm Pocket	200mm Pocket	250mm Pocket
-30 to +50°C	1°C	81/090/0	81/091/0	81/092/0	81/093/0	81/094/0	81/095/0	81/096/0	81/099/0	81/097/0
-30 to +50°C&F	1°C	81/100/0	81/101/0	81/102/0	81/103/0*	81/104/0	81/105/0*	81/106/0*	81/109/0	81/107/0
0 to +50°C	1°C	81/150/0	81/151/0	81/152/0	81/153/0	81/154/0	81/155/0	81/156/0	81/159/0	81/157/0
0 to +50°C&F	1°C	81/160/0	81/161/0	81/162/0	81/163/0	81/164/0	81/165/0	81/166/0	81/169/0	81/167/0
0 to +60°C	1°C	81/170/0	81/171/0	81/172/0	81/173/0	81/174/0	81/175/0	81/176/0	81/179/0	81/177/0
0 to +60°C&F	1°C	81/140/0	81/141/0	81/142/0	81/143/0*	81/144/0	81/145/0*	81/146/0*	81/149/0	81/147/0
0 to +100°C	1°C	81/190/0	81/191/0	81/192/0	81/193/0	81/194/0	81/195/0	81/196/0	81/199/0	81/197/0
0 to +100°C&F	1°C	81/180/0	81/181/0	81/182/0	81/183/0	81/184/0	81/185/0	81/186/0	81/189/0	81/187/0
0 to +120°C	1°C	81/220/0	81/221/0	81/222/0	81/223/0	81/224/0	81/225/0	81/226/0	81/229/0	81/227/0
0 to +120°C&F	1°C	81/230/0	81/231/0	81/232/0	81/233/0*	81/234/0	81/235/0*	81/236/0*	81/239/0	81/237/0
0 to +160°C	2°C	81/290/0	81/291/0	81/292/0	81/293/0	81/294/0	81/295/0	81/296/0	81/299/0	81/297/0
0 to +160°C&F	2°C	81/300/0	81/301/0	81/302/0	81/303/0	81/304/0	81/305/0	81/306/0	81/309/0	81/307/0
0 to +200°C	2°C	81/320/0	81/321/0	81/322/0	81/323/0	81/324/0	81/325/0	81/326/0	81/329/0	81/327/0
0 to +200°C&F	2°C	81/330/0	81/331/0	81/332/0	81/333/0	81/334/0	81/335/0	81/336/0	81/339/0	81/337/0

\* "/4" suffix denotes NPT connection



# VT020 - 90° Angle V-Line Thermometers

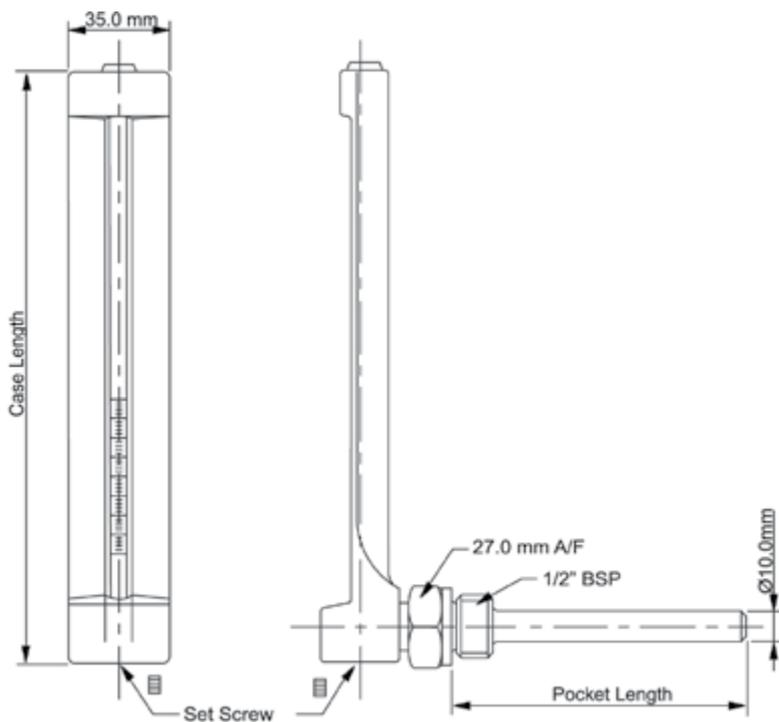
## Features

- Glass thermometer in heavy duty protective housing
- Reliable instrument with no moving parts
- Wide choice of pocket lengths and temperature ranges
- Customer branded products available subject to quantity
- Replacement thermometer tubes available (to order, substitute last digit of product number for "6" ie replacement tube for 82/090/0 is 82/090/6)
- **Brannan** quality and accuracy
- For indoor, outdoor and high humidity installations
- Supplied in individual box

## Standard Product Specifications

<b>Case Lengths</b>	110mm, 150mm & 200mm
<b>Ranges</b>	-30 to +200°C only or °C&F
<b>Case</b>	< +120°C: polypropylene > +160°C: painted aluminium
<b>Form</b>	90° angle
<b>Glass Filling</b>	Blue spirit
<b>Connection</b>	1/2" BSP
<b>Pocket</b>	Brass (stainless steel available on request) Push in with set screw
<b>Pocket Lengths</b>	30mm, 40mm, 50mm, 63mm, 75mm, 100mm, 160mm, 200mm, 250mm x 10mm diameter

## Dimensions



# 90° Angle V-Line Thermometers - VT020

## Standard Product Numbers - 110mm Case

Range	Divs	30mm Pocket	40mm Pocket	50mm Pocket	63mm Pocket	75mm Pocket	100mm Pocket	160mm Pocket	200mm Pocket	250mm Pocket
-30 to +50°C	1°C	88/090/0	88/091/0	88/092/0	88/093/0	88/094/0	88/095/0	88/096/0	88/099/0	88/097/0
-30 to +50°C&F	1°C	88/100/0	88/101/0	88/102/0	88/103/0	88/104/0	88/105/0	88/106/0	88/109/0	88/107/0
0 to +50°C	1°C	88/150/0	88/151/0	88/152/0	88/153/0	88/154/0	88/155/0	88/156/0	88/159/0	88/157/0
0 to +50°C&F	1°C	88/160/0	88/161/0	88/162/0	88/163/0	88/164/0	88/165/0	88/166/0	88/169/0	88/167/0
0 to +60°C	1°C	88/170/0	88/171/0	88/172/0	88/173/0	88/174/0	88/175/0	88/176/0	88/179/0	88/177/0
0 to +60°C&F	1°C	88/140/0	88/141/0	88/142/0	88/143/0	88/144/0	88/145/0	88/146/0	88/149/0	88/147/0
0 to +100°C	1°C	88/190/0	88/191/0	88/192/0	88/193/0	88/194/0	88/195/0	88/196/0	88/199/0	88/197/0
0 to +100°C&F	1°C	88/180/0	88/181/0	88/182/0	88/183/0	88/184/0	88/185/0	88/186/0	88/189/0	88/187/0
0 to +120°C	1°C	88/220/0	88/221/0	88/222/0	88/223/0	88/224/0	88/225/0	88/226/0	88/229/0	88/227/0
0 to +120°C&F	1°C	88/230/0	88/231/0	88/232/0	88/233/0	88/234/0	88/235/0	88/236/0	88/239/0	88/237/0
0 to +160°C	2°C	88/290/0	88/291/0	88/292/0	88/293/0	88/294/0	88/295/0	88/296/0	88/299/0	88/297/0
0 to +160°C&F	2°C	88/300/0	88/301/0	88/302/0	88/303/0	88/304/0	88/305/0	88/306/0	88/309/0	88/307/0
0 to +200°C	2°C	88/320/0	88/321/0	88/322/0	88/323/0	88/324/0	88/325/0	88/326/0	88/329/0	88/327/0
0 to +200°C&F	2°C	88/330/0	88/331/0	88/332/0	88/333/0	88/334/0	88/335/0	88/336/0	88/339/0	88/337/0

## Standard Product Numbers - 150mm Case

Range	Divs	30mm Pocket	40mm Pocket	50mm Pocket	63mm Pocket	75mm Pocket	100mm Pocket	160mm Pocket	200mm Pocket	250mm Pocket
-30 to +50°C	1°C	85/090/0	85/091/0	85/092/0	85/093/0	85/094/0	85/095/0	85/096/0	85/099/0	85/097/0
-30 to +50°C&F	1°C	85/100/0	85/101/0	85/102/0	85/103/0	85/104/0	85/105/0	85/106/0	85/109/0	85/107/0
0 to +50°C	1°C	85/150/0	85/151/0	85/152/0	85/153/0	85/154/0	85/155/0	85/156/0	85/159/0	85/157/0
0 to +50°C&F	1°C	85/160/0	85/161/0	85/162/0	85/163/0	85/164/0	85/165/0	85/166/0	85/169/0	85/167/0
0 to +60°C	1°C	85/170/0	85/171/0	85/172/0	85/173/0	85/174/0	85/175/0	85/176/0	85/179/0	85/177/0
0 to +60°C&F	1°C	85/140/0	85/141/0	85/142/0	85/143/0	85/144/0	85/145/0	85/146/0	85/149/0	85/147/0
0 to +100°C	1°C	85/190/0	85/191/0	85/192/0	85/193/0	85/194/0	85/195/0	85/196/0	85/199/0	85/197/0
0 to +100°C&F	1°C	85/180/0	85/181/0	85/182/0	85/183/0	85/184/0	85/185/0	85/186/0	85/189/0	85/187/0
0 to +120°C	1°C	85/220/0	85/221/0	85/222/0	85/223/0	85/224/0	85/225/0	85/226/0	85/229/0	85/227/0
0 to +120°C&F	1°C	85/230/0	85/231/0	85/232/0	85/233/0	85/234/0	85/235/0	85/236/0	85/239/0	85/237/0
0 to +160°C	2°C	85/290/0	85/291/0	85/292/0	85/293/0	85/294/0	85/295/0	85/296/0	85/299/0	85/297/0
0 to +160°C&F	2°C	85/300/0	85/301/0	85/302/0	85/303/0	85/304/0	85/305/0	85/306/0	85/309/0	85/307/0
0 to +200°C	2°C	85/320/0	85/321/0	85/322/0	85/323/0	85/324/0	85/325/0	85/326/0	85/329/0	85/327/0
0 to +200°C&F	2°C	85/330/0	85/331/0	85/332/0	85/333/0	85/334/0	85/335/0	85/336/0	85/339/0	85/337/0

## Standard Product Numbers - 200mm Case

Range	Divs	30mm Pocket	40mm Pocket	50mm Pocket	63mm Pocket	75mm Pocket	100mm Pocket	160mm Pocket	200mm Pocket	250mm Pocket
-30 to +50°C	1°C	82/090/0	82/091/0	82/092/0	82/093/0	82/094/0	82/095/0	82/096/0	82/099/0	82/097/0
-30 to +50°C&F	1°C	82/100/0	82/101/0	82/102/0	82/103/0	82/104/0	82/105/0	82/106/0	82/109/0	82/107/0
0 to +50°C	1°C	82/150/0	82/151/0	82/152/0	82/153/0	82/154/0	82/155/0	82/156/0	82/159/0	82/157/0
0 to +50°C&F	1°C	82/160/0	82/161/0	82/162/0	82/163/0	82/164/0	82/165/0	82/166/0	82/169/0	82/167/0
0 to +60°C	1°C	82/170/0	82/171/0	82/172/0	82/173/0	82/174/0	82/175/0	82/176/0	82/179/0	82/177/0
0 to +60°C&F	1°C	82/140/0	82/141/0	82/142/0	82/143/0	82/144/0	82/145/0	82/146/0	82/149/0	82/147/0
0 to +100°C	1°C	82/190/0	82/191/0	82/192/0	82/193/0	82/194/0	82/195/0	82/196/0	82/199/0	82/197/0
0 to +100°C&F	1°C	82/180/0	82/181/0	82/182/0	82/183/0	82/184/0	82/185/0	82/186/0	82/189/0	82/187/0
0 to +120°C	1°C	82/220/0	82/221/0	82/222/0	82/223/0	82/224/0	82/225/0	82/226/0	82/229/0	82/227/0
0 to +120°C&F	1°C	82/230/0	82/231/0	82/232/0	82/233/0	82/234/0	82/235/0	82/236/0	82/239/0	82/237/0
0 to +160°C	2°C	82/290/0	82/291/0	82/292/0	82/293/0	82/294/0	82/295/0	82/296/0	82/299/0	82/297/0
0 to +160°C&F	2°C	82/300/0	82/301/0	82/302/0	82/303/0	82/304/0	82/305/0	82/306/0	82/309/0	82/307/0
0 to +200°C	2°C	82/320/0	82/321/0	82/322/0	82/323/0	82/324/0	82/325/0	82/326/0	82/329/0	82/327/0
0 to +200°C&F	2°C	82/330/0	82/331/0	82/332/0	82/333/0	82/334/0	82/335/0	82/336/0	82/339/0	82/337/0



# VT030 - 135° Angle V-Line Thermometers

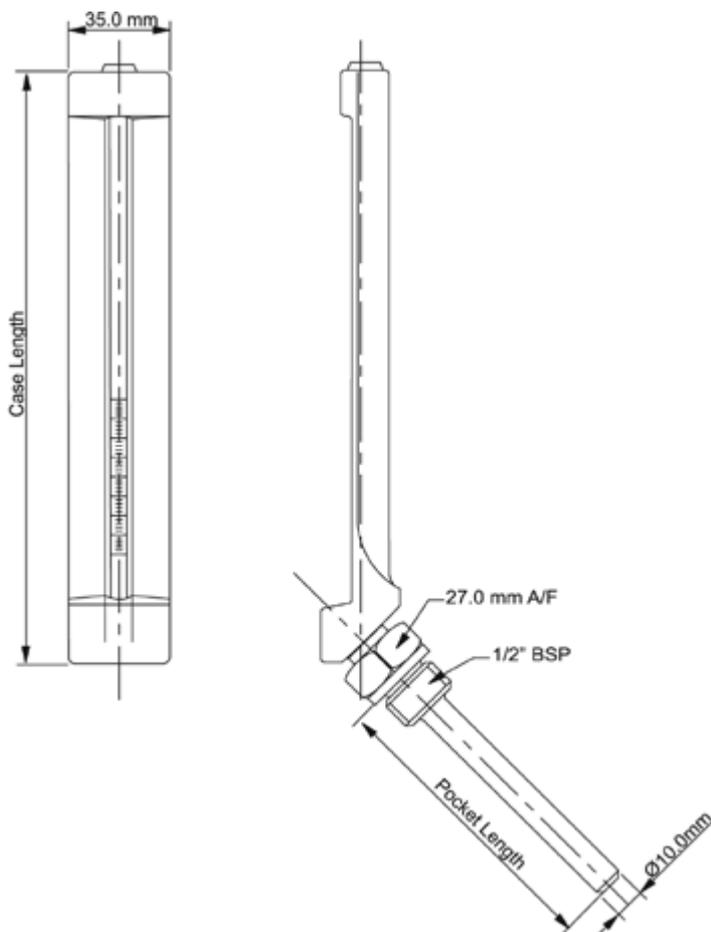
## Features

- Glass thermometer in heavy duty (metal case only) protective housing
- Reliable instrument with no moving parts
- Choice of pocket lengths and temperature ranges
- Customer branded products available subject to quantity
- Replacement thermometer tubes available (to order, substitute last digit of product number for "6" ie replacement tube for 83/093/0 is 83/093/6)
- **Brannan** quality and accuracy
- For indoor, outdoor and high humidity installations

## Standard Product Specifications

Case Lengths	150mm & 200mm
Ranges	-30 to +200°C only or °C&F
Case	< +120°C: polypropylene > +160°C: painted aluminium
Form	135° angle
Glass Filling	Blue spirit
Connection	1/2" BSP
Pocket	Brass (stainless steel available on request). Screw in.
Pocket Lengths	63mm, 100mm & 160mm x 10mm diameter

## Dimensions



# 135° Angle V-Line Thermometers - VT030

## Standard Product Numbers - 150mm Case

Range	Divs	63mm Pocket	100mm Pocket	160mm Pocket
-30 to +50°C	1°C	86/093/0	86/095/0	86/096/0
-30 to +50°C&F	1°C	86/103/0	86/105/0	86/106/0
0 to +50°C	1°C	86/153/0	86/155/0	86/156/0
0 to +50°C&F	1°C	86/163/0	86/165/0	86/166/0
0 to +60°C	1°C	86/173/0	86/175/0	86/176/0
0 to +60°C&F	1°C	86/143/0	86/145/0	86/146/0
0 to +100°C	1°C	86/193/0	86/195/0	86/196/0
0 to +100°C&F	1°C	86/183/0	86/185/0	86/186/0
0 to +120°C	1°C	86/223/0	86/225/0	86/226/0
0 to +120°C&F	1°C	86/233/0	86/235/0	86/236/0
0 to +160°C	2°C	86/293/0	86/295/0	86/296/0
0 to +160°C&F	2°C	86/303/0	86/305/0	86/306/0
0 to +200°C	2°C	86/323/0	86/325/0	86/326/0
0 to +200°C&F	2°C	86/333/0	86/335/0	86/336/0

## Standard Product Numbers - 200mm Case

Range	Divs	63mm Pocket	100mm Pocket	160mm Pocket
-30 to +50°C	1°C	83/093/0	83/095/0	83/096/0
-30 to +50°C&F	1°C	83/103/0	83/105/0	83/106/0
0 to +50°C	1°C	83/153/0	83/155/0	83/156/0
0 to +50°C&F	1°C	83/163/0	83/165/0	83/166/0
0 to +60°C	1°C	83/173/0	83/175/0	83/176/0
0 to +60°C&F	1°C	83/143/0	83/145/0	83/146/0
0 to +100°C	1°C	83/193/0	83/195/0	83/196/0
0 to +100°C&F	1°C	83/183/0	83/185/0	83/186/0
0 to +120°C	1°C	83/223/0	83/225/0	83/226/0
0 to +120°C&F	1°C	83/233/0	83/235/0	83/236/0
0 to +160°C	2°C	83/293/0	83/295/0	83/296/0
0 to +160°C&F	2°C	83/303/0	83/305/0	83/306/0
0 to +200°C	2°C	83/323/0	83/325/0	83/326/0
0 to +200°C&F	2°C	83/333/0	83/335/0	83/336/0

# APK012/5 - V-Line Thermometer Accessories

## APK012 - Replacement V-Line Pockets

- Available in brass or stainless steel
- 1/2" BSP connection (3/4" or 3/8" BSP, BSPT and NPT options available on request)
- With thread connection for straight and obtuse (135°) case and setting screw for angle (90°) case
- Brass or Stainless Steel pockets available in 30mm, 40mm, 50mm, 63mm, 75mm, 100mm, 160mm, 200mm, 250mm & 400mm lengths

Pocket Length	1/2" BSP Brass Pockets	
	To Fit Straight V-Line	To Fit Angle V-Line
30mm	95/603/0	95/616/0
40mm	95/602/0	95/617/0
50mm	95/613/0	95/618/0
63mm	95/600/0	95/607/0
75mm	95/614/0	95/619/0
100mm	95/601/0	95/608/0
160mm	95/604/0	95/612/0
200mm	95/615/0	95/609/0
250mm	95/605/0	95/623/0
400mm	95/606/0	95/624/0



Pocket Length	1/2" BSP Stainless Steel Pockets	
	To Fit Straight V-Line	To Fit Angle V-Line
30mm	95/658/0	95/660/0
40mm	95/656/0	95/655/0
50mm	95/649/0	95/661/0
63mm	95/650/0	95/653/0
75mm	95/659/0	95/662/0
100mm	95/651/0	95/654/0
160mm	95/652/0	95/663/0



## AK015 - V-Line Over-Pockets

- Pockets / thermowells for use with V-line thermometers
- Allows V-line thermometers to be removed while system is filled
- Available in chrome plated mild steel or stainless steel
- For 1/2" BSP female x 1/2" BSP male V-lines
- Chrome plated mild steel over-pocket to suit 63mm or 100mm pockets in 75mm or 110mm lengths
- Stainless steel over-pocket to suit 63mm, 100mm or 160mm pockets in 75mm, 110mm or 170mm lengths
- Stainless steel over-pocket for use with corrosive liquids

Pocket Length	Chrome Plated Over-Pockets	
	To Suit 1/2" BSP 63mm Pocket	To Suit 1/2" BSP 100mm Pocket
75mm	62/065/0	-
110mm	-	62/067/0



Pocket Length	Stainless Steel Over-Pockets		
	To Suit 1/2" BSP 63mm Pocket	To Suit 1/2" BSP 100mm Pocket	To Suit 1/2" BSP 160mm Pocket
75mm	62/068/0	-	-
110mm	-	62/070/0	-
170mm	-	-	62/071/0



# Steel Cased Hot Water Thermometers - WT010



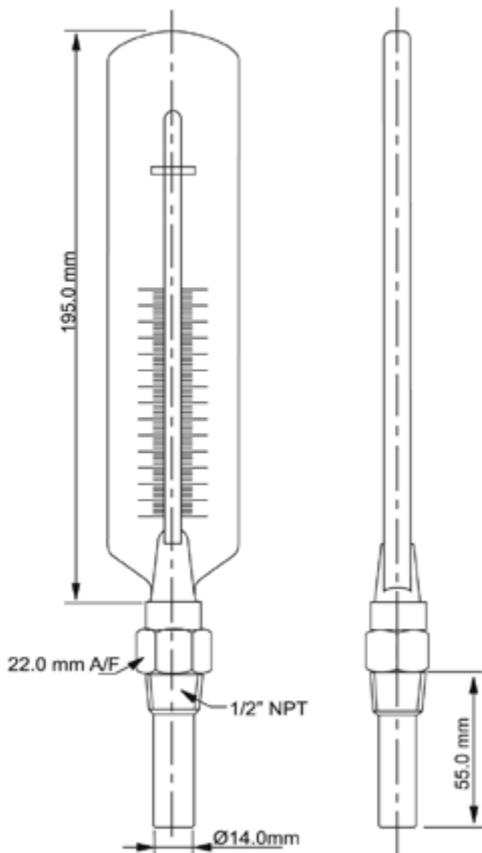
### Features:

- Low price glass thermometer
- Easy to install
- Separate brass or lead free brass pocket
- **Brannan** quality and accuracy
- Durable and reliable – no moving parts
- Bottom or back connection
- For hot water and chilled water systems
- Calibration traceable to National Standards or Statement of Conformity available, if required

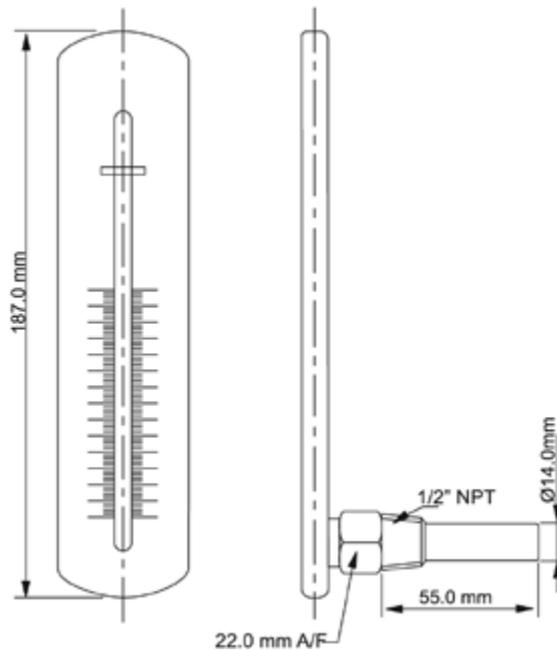
### Standard Product Specifications

<b>Case</b>	183mm steel with white lacquer
<b>Tube</b>	Triangle tube with red liquid filling
<b>Window</b>	Glass
<b>Connection</b>	1/2" NPT
<b>Form</b>	Straight or 90° angle
<b>Stem</b>	Brass 14mm diameter x 55mm
<b>Range</b>	+5 to +135°C&F
<b>Accuracy</b>	+/- 2%

### Dimensions - Bottom Entry



### Dimensions - Back Entry



### Standard Product Numbers

Connection	Range	Product No
Bottom	+5 to +135°C&F	200/001/0
Back	+5 to +135°C&F	200/002/0

# WT020 - Plastic Cased Hot Water Thermometers



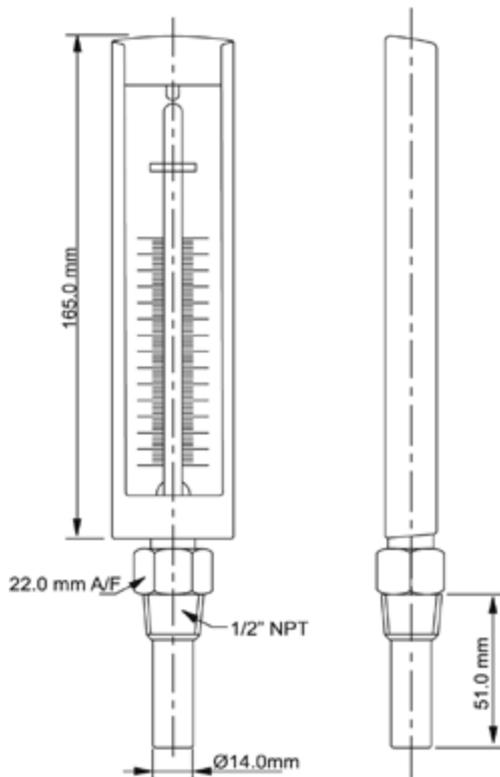
## Features:

- Accurate, economically priced range
- Choice of temperature range, dual scale
- Supplied complete with brass pocket
- **Brannan** quality and accuracy
- Durable and reliable – no moving parts
- Bottom or back connection
- Heavy duty case with glass tube thermometer
- For hot water and chilled water systems
- Calibration traceable to National Standards or Statement of Conformity available, if required

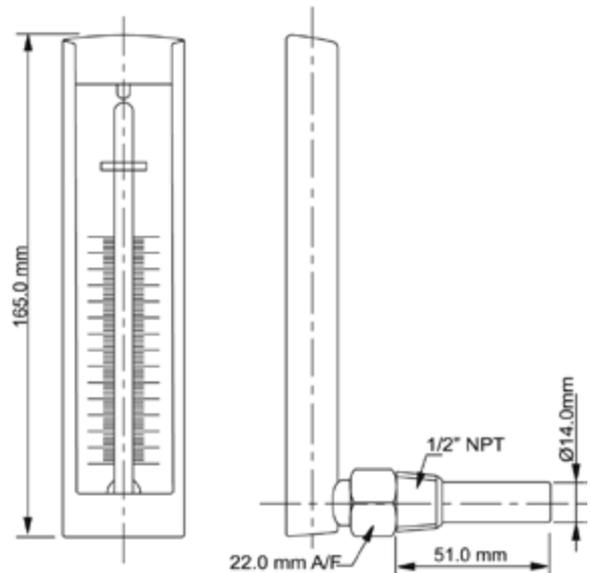
## Standard Product Specifications

<b>Case</b>	183mm steel with white lacquer
<b>Tube</b>	Triangle tube with red liquid filling
<b>Window</b>	Glass
<b>Connection</b>	1/2" NPT
<b>Form</b>	Straight or 90° angle
<b>Stem</b>	Brass 14mm diameter x 55mm
<b>Range</b>	+5 to +135°C&F
<b>Accuracy</b>	+/- 2%

## Dimensions - Bottom Connection



## Dimensions - Back Connection



## Standard Product Numbers - Bottom Connection

Range	Product No	
	1/2" BSP	1/2" NPT
-40 to +40°C&F	200/101/0	200/201/0
-5 to +80°C&F	200/102/0	200/202/0
0 to +110°C&F	200/103/0	200/203/0
0 to +150°C&F	200/104/0	200/204/0
+10 to +200°C&F	200/105/0	200/205/0

## Standard Product Numbers - Back Connection

Range	Product No	
	1/2" BSP	1/2" NPT
-40 to +40°C&F	200/301/0	200/401/0
-5 to +80°C&F	200/302/0	200/402/0
0 to +110°C&F	200/303/0	200/403/0
0 to +150°C&F	200/304/0	200/404/0
+10 to +200°C&F	200/305/0	200/405/0

# Every Angle Hot Water Thermometers - WT030



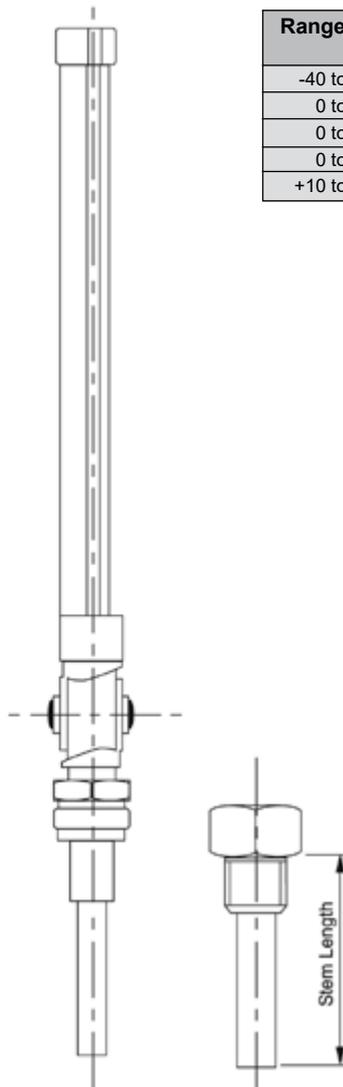
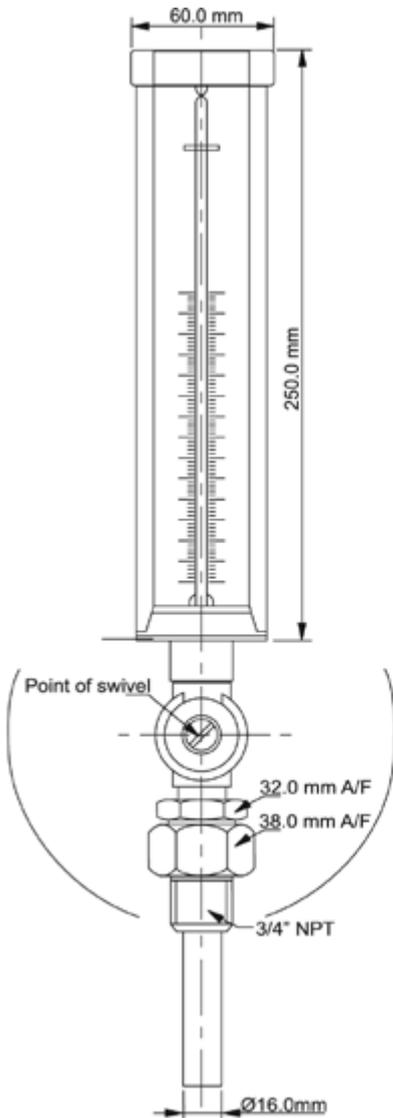
## Features:

- 360 degree rotation case for easy installation and reading
- Heavy duty protective case with glass tube thermometer
- Durable and reliable – no moving parts
- Dual scale
- **Brannan** quality and accuracy
- Available with 90mm or 150mm stem length
- For hot water and chilled water systems
- Calibration traceable to National Standards or Statement of Conformity available, if required

## Standard Product Specifications

<b>Case</b>	250mm Aluminium
<b>Tube</b>	Triangle tube with blue liquid filling
<b>Window</b>	Glass
<b>Form</b>	Variable Angle
<b>Connection</b>	3/4" NPT
<b>Stem</b>	Aluminium 10.8mm dia x 90mm or 150mm stem
<b>Pocket</b>	Brass
<b>Ranges</b>	-40 to +40°C&F through to +10 to +200°C&F
<b>Accuracy</b>	+/- 1% between 0°C and 90°C, otherwise +/-2%
<b>Protection</b>	IP54

## Dimensions



## Standard Product Numbers

Range	Product No	
	90mm Stem	150mm Stem
-40 to +40°C&F	200/501/0	200/601/0
0 to +80°C&F	200/502/0	200/602/0
0 to +110°C&F	200/503/0	200/603/0
0 to +150°C&F	200/504/0	200/604/0
+10 to +200°C&F	200/505/0	200/605/0

# IR010/IR020 - Infrared Thermometers - Standard and Compact



## Features:

- Infrared thermometer with built-in laser pointer for fast and precise non-contact measurement
- Choice of compact or standard sized thermometer
- Choice of temperature ranges and Distance to Spot ratio
- Supplied complete with Factory Certificate of Calibration
- 3 point Traceable Calibration available on request (additional charge applies). Product Ref: 49/709/0
- Over range indication
- Large backlit LCD
- Data hold and power off function
- Supplied in individual box with protective pouch
- **Brannan** quality and accuracy
- Full instructions and battery included
- CE, WEEE and RoHS compliant

## Standard Product Specifications

	IRS010 - Standard IR Thermometer		IRC010 - Compact Thermometers	
	38/701/0	38/702/0	38/703/0	38/704/0
IR Temperature Range	-50 to 350°C&F	-50 to 550°C&F	-50 to 500°C&F	-50 to 800°C&F
Max Min Function	Yes		No	
Optical Resolution (D:S)	13:1		12:1	
Product Dimensions	155.5 x 98.8 x 27.5mm		134 x 89 x 36mm	
LCD Dimensions	26.5 x 25.6mm		34.5 x 25mm	
Emissivity	Fixed at 0.95			
Response Time	<500ms			
Response Wavelength	8 to 14µm			
Basic Accuracy*	+/-2%, +/-2°C / 4°F			
Resolution	0.1°C/°F			
Operating Conditions	0 to 50°C <95%RH (non-condensing)			
Storage Conditions	-20 to 70°C <80%RH			
Diode Laser	Output <1mW, Wavelength 630 to 670, class II			
Battery	1 x 9V (included)			

\* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

NB: The meters' field of view, or Distance to Spot (D:S) indicates the distance required from the target spot. For example, where the field of view is 13:1, the thermometer should be 13cm from the target area. The diameter of the target must be at least 1cm.

# Infrared Thermometer - with Multi Spot Laser - IR030



## Features:

- Built-in laser circle with 13 lasers spots increases the target accuracy
- Supplied complete with Factory Certificate of Calibration
- 3 point Traceable Calibration available on request (additional charge applies). Product Ref: 49/709/0
- Automatic measurement range selection with resolution 0.1°C/°F
- Built-in dual laser pointers
- Fast and precise non-contact measurement
- MAX/MIN recording function
- Adjustable emissivity
- Large backlit LCD
- Auto trigger off and auto power off
- Supplied in individual box with protective pouch
- **Brannan** quality and accuracy
- Full instructions and battery included
- CE, WEEE and RoHS compliant

## Standard Product Specifications

Product Number	38/707/0
IR Temperature Range	-30 to 950°C (-22 to 1742°F)
Max Min Function	Yes
Optical Resolution (D:S)	30:1
Emissivity	Adjustable 0.1 to 1.0
Response Time	<500ms
Response Wavelength	8 to 14µm
Basic Accuracy*	+/-2%, +/-2°C / 4°F
Resolution	0.1°C/°F
Operating Conditions	0 to 50°C <95%RH (non-condensing)
Storage Conditions	-20 to 70°C <80%RH
Diode Laser	Output <1mW, Wavelength 630 to 670, class II
Auto Power Off	After 20 seconds inactivity
Battery	1 x 9V (included)
Product Dimensions	155.5 x 98.8 x 27.5mm
LCD Dimensions	30 x 26.5mm

\* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

NB: The meters' field of view, or Distance to Spot (D:S) indicates the distance required from the target spot. For example, where the field of view is 13:1, the thermometer should be 13cm from the target area. The diameter of the target must be at least 1cm.

# IR040 - Infrared Thermometers - with Dual Lasers



## Features:

- Precise IR and K-Type input temperature measurement
- Supplied with 1pc x K-Type beaded wire thermocouple. Replacement thermocouple available (product ref: 38/698/0)
- Compatible with **Brannan** range of K-Type probes
- Built-in dual laser pointers
- Standard or high range models
- °C/°F selectable
- Adjustable emissivity: 0.1 to 1.0
- REC datalogger function for 12 points
- Adjustable High/Low alarm
- MAX/MIN/DIF/AVG record
- Large backlit LCD
- Automatic range selection, data hold and power off function
- Trigger lock
- Supplied in individual box with protective pouch
- **Brannan** quality and accuracy
- Full instructions and battery included
- CE, WEEE and RoHS compliant
- Supplied complete with Factory Certificate of Calibration
- 3 point Traceable Calibration available on request (additional charge applies)

## Standard Product Specifications

	Standard Range Thermometer	High Range Thermometer
Product Number	38/705/0	38/706/0
IR Temperature Range	-50 to 500°C&F	-50 to 1050°C&F
K-type Temp. Range	-50 to 1370°C&F	-50 to 1370°C&F
Optical Resolution (D:S)	13:1	30:1
Max Min Function	Yes	
Emissivity	Fixed at 0.95	
Response Time	<250ms	
Response Wavelength	8 to 14µm	
Basic Accuracy*	+/-1.5%/+/-2°C/3.6°F (K-type: +/-1.5%, +/-1°C/1.8°F)	
Resolution	0.1°C/°F	
Operating Conditions	0 to 50°C <95%RH (non-condensing)	
Storage Conditions	-20 to 70°C <80%RH	
Battery	1 x 9V (included)	
Product Dimensions	192 x 97 x 59mm	
LCD Dimensions	35 x 35mm	

\* Accuracy is listed as best across the range. Individual product data sheets are available for full accuracy details.

NB: The meters' field of view, or Distance to Spot (D:S) indicates the distance required from the target spot. For example, where the field of view is 13:1, the thermometer should be 13cm from the target area. The diameter of the target must be at least 1cm.

# Thermocouple Thermometer - KT010



## Features

- 4 x K-Type/J-Type inputs for simultaneous readings
- Supplied with 4pcs x K-Type beaded wire thermocouples  
Replacement thermocouple available (product ref: 38/698/0)
- Electronic offset allows compensation of thermocouple errors to maximise overall accuracy
- Readouts in °C, °F or Kelvin
- Compatible with **Brannan** range of K-Type probes
- MAX/MIN/AVG record
- Auto power off
- Supplied with protective pouch
- Large backlit LCD
- **Brannan** quality and accuracy
- Full instructions and battery included
- CE, WEEE and RoHS compliant
- Supplied complete with Factory Certificate of Calibration
- 3 point Traceable Calibration available on request (additional charge applies)

## Standard Product Specifications

Product Number	38/685/0
Temperature Range	Beaded Probe: -50 to 330°C&F
	K-Type Probe: -200 to 1372°C&F
	J-Type Probe: -210 to 1100°C&F
Max Min Function	Yes
Response Time	1 second
Sampling Rate	1 reading per second
Basic Accuracy*	+/-1.5% rdg, +/-1°C
Resolution	0.1°C/°F
Operating Conditions	-20 to 60°C <90%RH (non-condensing)
Storage Conditions	-30 to 70°C <75%RH
Battery	1 x 9V (included)
Product Dimensions	184 x 66 x 33mm
LCD Dimensions	55 x 45mm

# KT020 - Thermocouple K-Type Probes

## K-Type Probes

### Features

- Widen temperature range of compatible products
- Improve access to objects where more remote reading is required due to limited access or for safety reasons
- Choice of models for various applications
- Stainless Steel probe
- **Brannan** quality and accuracy



### Standard Product Specifications

Product Number	38/690/0	38/691/0	38/692/0	38/693/0
Application	Solids & Liquids	Gas & Air	Surface Temperature/Contact	
Temperature Range	-50 to 800°C&F	-50 to 800°C&F	-50 to 450°C&F	-50 to 450°C&F
Basic Accuracy	+/-1.5°C			
Probe Length	200mm	165mm	210mm	n/a
Product Dimensions	330 x 16mm dia	295 x 16mm dia	390 x 65 x 16mm	145 x 16mm dia

NB: The thermocouple in these devices can be used for temperatures up to 800°C, but for prolonged use at high temperatures and all applications above 500°C&F, the handles should be protected against the effects of radiant heat.



## Anti-Bacterial Probe Wipes

### Features

- 200 disinfectant wipes
- Kills harmful bacterial ... without water
- Sealed tub for safe delivery

Dimensions: 165 x ø85mm.

13/670/0



# Accessories



# Accessories



## AGC010 - Brass Gauge Cocks

- Allows gauge to be isolated from pressure medium to protect against gauge failure
- Allows gauge to be removed for servicing
- Available with or without vent hole
- Tested to 20 bar
- Other connections available on request

### Standard Product Numbers

Connection	Gauge Cock Product No	
	Standard	with Vent Hole
3/8" BSP F & F	39/001/0	39/001/9
1/2" BSP F & F	39/003/0	39/003/9
1/4" BSP F & F	39/008/0	39/008/9
1/4" BSP M & F	39/200/0	39/200/9
3/8" BSP M & F	39/202/0	39/202/8
1/2" BSP M & F	39/203/0	39/202/9



## ABV010 - Stainless Steel Ball Valve

- Allows gauge to be isolated from pressure medium to protect against gauge failure
- Allows gauge to be removed for servicing
- Stainless steel construction
- Working pressure to 16 bar
- Wide range of BSP, NPT connections available on request



## ATP010 - Self Sealing Test Plugs

- Suitable for low temperature hot water, chilled water and low temperature steam
- Not for use on medium or high temperature hot water, oils or hazardous pressure media
- Not suitable for oil or other hydro-carbon fluids
- Max pressure: 35 bar
- Temperature range: -8 to +125°C
- Available in range of connections and lagging extensions
- Allows maximum probe diameter of 4mm
- For use on low pressure water systems

### Standard Product Numbers

Connection	Product No
1/4" BSPT M	39/308/0
1/2" BSPT M	39/312/0
1/4" BSPT M with 50mm Lagging Extension	39/313/0
1/2" BSP M with 50mm Lagging Extension	39/314/0



## AAD015 - Pressure Gauge to Test Plug Brass Adaptor

- 1/4" BSP female connection
- Available in brass or stainless steel

### Standard Product Numbers

Connection	Product No
1/4" BSP F	39/309/0

## AAD010 - Brass Pressure Gauge Adaptors

- Increase or decrease the thread size of the gauge connection
- Available in a wide range of connections, BSP to BSP or BSP to NPT, female to male
- Brass construction



### Standard Product Numbers

Connection	Product No
1/8" BSP F x 1/8" NPT M	39/354/0
1/8" BSP F x 1/4" BSP M	39/351/0
1/8" BSP F x 1/4" NPT M	39/352/0
1/4" BSP F x 1/8" BSP M	39/358/0
1/4" BSP F x 1/8" NPT M	39/361/0
1/4" BSP F x 1/8" NPT M	39/355/0
1/4" BSP F x 3/8" BSP M	39/353/0
1/4" BSP F x 3/8" NPT M	39/362/0
1/4" BSP F x 1/2" BSP M	39/025/0
1/4" BSP F x 1/2" NPT M	39/363/0
3/8" BSP F x 1/4" BSP M	39/357/0
3/8" BSP F x 1/4" NPT M	39/359/0
3/8" BSP F x 3/8" NPT M	39/360/0
3/8" BSP F x 1/2" BSP M	39/021/0
3/8" BSP F x 1/2" NPT M	39/356/0
1/2" BSP F x 3/8" BSP M	39/366/0
1/2" BSP F x 3/8" NPT M	39/364/0
1/2" BSP F x 1/2" NPT M	39/365/0



## ASN010 - Brass Snubber Check Valve for Pressure Gauge

- Protects gauge from pressure spikes and pulsation
- Extends life of pressure gauge
- Max working pressure: 60 bar
- Available in choice of connections
- Adjustable snubber available on request

### Standard Product Numbers

Connection	Product No
1/4" BSP M x 1/4" BSP F	39/304/0
3/8" BSP M x 3/8" BSP F	39/306/0
1/2" BSP M x 1/2" BSP F	39/307/0

## APK010 - 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
1/2" BSP M x 1/2" BSP M	-	Stainless Steel	-	-	39/141/0

# APK012/15 - V-Line Thermometer Accessories

## APK012 - Replacement V-Line Pockets

- Available in brass or stainless steel
- 1/2" BSP connection (3/8" BSP and NPT options available on request)
- With thread connection for straight and obtuse (135°) case and setting screw for angle (90°) case
- Brass pockets available in 30mm, 40mm, 50mm, 63mm, 75mm, 100mm, 160mm, 200mm, 250mm & 400mm lengths
- Stainless steel pockets available in 30mm, 40mm, 50mm, 63mm, 75mm, 100mm and 160mm lengths

Pocket Length	1/2" BSP Brass Pockets	
	To Fit Straight V-Line	To Fit Angle V-Line
30mm	95/603/0	95/616/0
40mm	95/602/0	95/617/0
50mm	95/613/0	95/618/0
63mm	95/600/0	95/607/0
75mm	95/614/0	95/619/0
100mm	95/601/0	95/608/0
160mm	95/604/0	95/612/0
200mm	95/615/0	95/609/0
250mm	95/605/0	95/623/0
400mm	95/606/0	95/624/0



Pocket Length	1/2" BSP Stainless Steel Pockets	
	To Fit Straight V-Line	To Fit Angle V-Line
30mm	95/658/0	95/660/0
40mm	95/656/0	95/655/0
50mm	95/649/0	95/661/0
63mm	95/650/0	95/653/0
75mm	95/659/0	95/662/0
100mm	95/651/0	95/654/0
160mm	95/652/0	95/663/0



## APK015 - V-Line Over-Pockets

- Pockets / thermowells for use with V-line thermometers
- Allows V-line thermometers to be removed while system is filled
- Available in chrome plated mild steel or stainless steel
- For 1/2" BSP female x 1/2" BSP male V-lines
- Chrome plated mild steel over-pocket to suit 63mm or 100mm pockets in 75mm or 110mm lengths
- Stainless steel over-pocket to suit 63mm, 100mm or 160mm pockets in 75mm, 110mm or 170mm lengths
- Stainless steel over-pocket for use with corrosive liquids

Pocket Length	Chrome Plated Over-Pockets	
	To Suit 1/2" BSP 63mm Pocket	To Suit 1/2" BSP 100mm Pocket
75mm	62/065/0	-
110mm	-	62/067/0



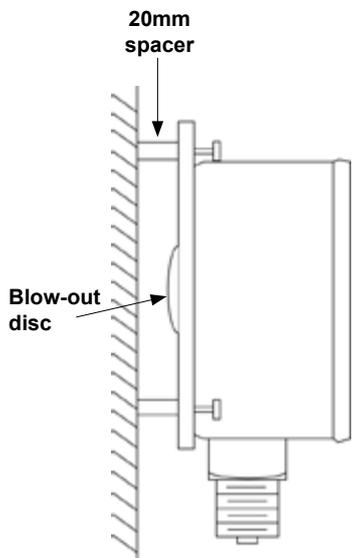
Pocket Length	Stainless Steel Over-Pockets		
	To Suit 1/2" BSP 63mm Pocket	To Suit 1/2" BSP 100mm Pocket	To Suit 1/2" BSP 160mm Pocket
75mm	62/068/0	-	-
110mm	-	62/070/0	-
170mm	-	-	62/071/0



# Accessories - Flanges - AFG010/15

## AFG010 - Black Steel Flanges for Pressure and Altitude Gauges

- To suit 100mm and 150mm pressure or altitude gauges
- Supplied with plastic spacers to allow blow-out disc operation
- Supplied with instructions for fitting
- Suitable for use with PG020 pressure gauges



### Standard Product Numbers

Gauge Diameter	Product No
100mm	34/600/0
150mm	34/900/0

## AFG015 - Stainless Steel Flanges for Pressure Gauges

- Front or back flange available
- Suitable for use with PG030 pressure gauges



### Standard Product Numbers

Gauge Diameter	Product No	
	Back Flange	Front Flange
50mm	39/321/0	39/324/0
63mm	39/322/0	39/325/0
100mm	39/327/0	39/326/0

# ASU010/ASR010 - Accessories - Syphons



## Features

- Available in choice of material
- Wide range of BSP (supplied with fixing nut) or NPT connections

### Standard Product Numbers ASU010 - 'U' Shaped Syphons

Material	Connection	Product No
Mild Steel	1/4" BSP M x 1/4" BSP M	39/010/0
Mild Steel	3/8" BSP M x 3/8" BSP M	39/011/0
Brass	3/8" BSP M x 3/8" BSP M	39/013/0
Mild Steel	1/2" BSP M x 1/2" BSP M	39/012/0
Mild Steel	1/4" NPT M x 1/4" NPT M	39/014/0
Stainless Steel	1/4" NPT M x 1/4" NPT M	39/018/0
Stainless Steel	1/4" BSP M x 1/4" BSP M	39/019/0
Stainless Steel	3/8" BSP M x 3/8" BSP M	39/022/0
Mild Steel	3/8" NPT M x 3/8" NPT M	39/041/0
Mild Steel	1/2" NPT M x 1/2" NPT M	39/042/0
Stainless Steel	1/2" NPT M x 1/2" NPT M	39/043/0
Stainless Steel	3/8" NPT M x 3/8" NPT M	39/044/0
Stainless Steel	1/2" BSP M x 1/2" BSP M	39/050/0

### Standard Product Numbers ASR010 - Ring Syphons

Material	Connection	Product No
Mild Steel	3/8" BSP M x 3/8" BSP M	39/015/0
Mild Steel	1/2" BSP M x 1/2" BSP M	39/016/0
Mild Steel	1/4" NPT M x 1/4" NPT M	39/020/0
Stainless Steel	3/8" BSP M x 3/8" BSP M	39/023/0
Mild Steel	1/4" BSP M x 1/4" BSP M	39/024/0
Stainless Steel	1/4" NPT M x 1/4" NPT M	39/029/0
Stainless Steel	1/4" BSP M x 1/4" BSP M	39/031/0
Mild Steel	3/8" NPT M x 3/8" NPT M	39/045/0
Mild Steel	1/2" NPT M x 1/2" NPT M	39/046/0
Stainless Steel	1/2" NPT M x 1/2" NPT M	39/047/0
Stainless Steel	3/8" NPT M x 3/8" NPT M	39/048/0
Stainless Steel	1/2" BSP M x 1/2" BSP M	39/049/0



# Calibration Services

**Brannan**

# Calibration Services

To complement the production facilities of **S. Brannan & Sons**, a comprehensive calibration service is available for a variety of instruments including thermometers, pressure gauges and hydrometers. In addition, we are able to calibrate many other measuring instruments, such as electronic max/ mins and weather-stations, environmental meters, data loggers and wall thermometers. Within our lab we offer both UKAS Accredited calibrations and certification Traceable to National Standards. This service is available, for an additional charge, at time of product's purchase or for customers own existing instruments. Please contact our Sales Team to discuss the suitability of your instrument for calibration.



The table below shows standard instruments and certification available.

Instrument Type	UKAS Accredited	Traceable to National Standards
Pressure	✓	✓
Liquid in Glass Thermometers	✓	✓
Dial Analogue Thermometers	✓	✓
Electronic Thermometers with Indicators	✓	✓
Infrared Thermometers	✗	✓
Electronic Environmental Meters	✗	✓
Measurements of Temperature in Air	✗	✓
Hydrometers	✓*	✓

\*UKAS calibration of hydrometers carried out at external laboratory

## What is a Calibration & Why Calibrate

- Calibration is a procedure in which an instrument is tested to ensure it conforms with an appropriate standard (if applicable) and to verify the accuracy of an instrument.
- By comparing an instrument of a known value against a second instrument (unit under test), the difference can be calculated and suitable corrections determined.

## Re-Calibration

- The calibration frequency for a specific instrument is up to the individual customer.
- It should be based on factors such as:
  - The environment in which the instrument is used,
  - The frequency of use and
  - The level of confidence required in the readings taken from the customers' process.

## Calibration Points

- Calibration points can be drawn on a graph and joined together to form a calibration curve.
- This allows the user to estimate the corrections at points where a calibration value has not been measured.



## UKAS Accredited Laboratory

Our facilities conform to (BS) EN ISO/IEC 17025:2017 – ‘General requirements for the competence of testing and calibration laboratories’.

### For temperature measurement our laboratory can calibrate:

- Liquid-in-glass thermometers i.e. both spirit and mercury
- Dial type temperature indicators/recorders
- Temperature sensors such as digital thermometers
- Certification is available for test temperatures between -60°C and +250°C.
- Certificates are produced with reference to the International Temperature Scale of 1990 (ITS-90).

### For pressure measurement, our laboratory can calibrate:

- Dial type pressure gauges and indicators
- Digital pressure gauges and indicators
- Certification is available for pressure between 0 and 700 bar (0 to 10,152 psi)
- Calibrations are carried out using an oil operated hydraulic dead weight tester.



0582

## Example of UKAS Calibration Certificate

### CERTIFICATE OF CALIBRATION

ISSUED BY: S. Brannan and Sons Limited

---

**Date of Issue:**  
24 October 2016

**Certificate Number:**  
P 000029

**Serial Number:**  
101205

---

S. Brannan and Sons Ltd.  
Leconfield Industrial Estate  
Cleator Moor  
Cumbria  
ENGLAND  
CA25 5QE

**Telephone:** +44 (0) 1946 816400  
**Fax:** +44 (0) 1946 816625  
**E Mail:** sales@brannan.co.uk  
**Web:** www.brannan.co.uk  
**Registered for:** 290512 ENGLAND

---

**Customer Details:**  
S. Brannan & Sons Ltd  
Leconfield Industrial Estate  
Cleator Moor  
Cumbria  
CA25 5QE  
United Kingdom

**Internal Standard:**  
BIPM 1990 Pressure Gauge (Hydraulic Dead Weight Tester)  
Analogous: Bourton EM16  
Brannan  
0 to 25 Bar  
0.1  
1.5

---

**Uncertainty:** ±0.05% (k=2)  
All calibrations carried out in an ambient temperature of 20°C ±1.5°C and 20 to 80% Relative Humidity

**Scale:** 0 to 25 Bar  
**Class:** 0.1

---

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurements to the SI system of units (and/or to units of measurement realised at the National Physical Laboratory, NIST or other recognised national metrology institutes).

This certificate may not be reproduced in full, except with the prior written approval of the issuing laboratory.

---

Authorised Signatory: \_\_\_\_\_ S. Henderson

Authorised Signatory: \_\_\_\_\_ S. Henderson

EXAMPLE

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**Certificate Number:**  
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---

Authorised Signatory: \_\_\_\_\_ S. Henderson

Authorised Signatory: \_\_\_\_\_ S. Henderson

EXAMPLE

EXAMPLE

# Additional Calibration Services

In addition to our UKAS Accredited Calibration Laboratory, we have the capability of providing calibration certificates traceable to National Standards for many other instruments: thermometers, pressure gauges, hydrometers and environmental meters such as light, sound, windspeed and hygrometers. All our prices are competitive and quantity discounts may apply. Please contact us for further details on the above or to discuss other instruments suitable for Certification.

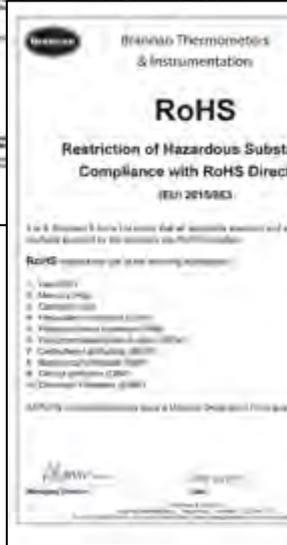
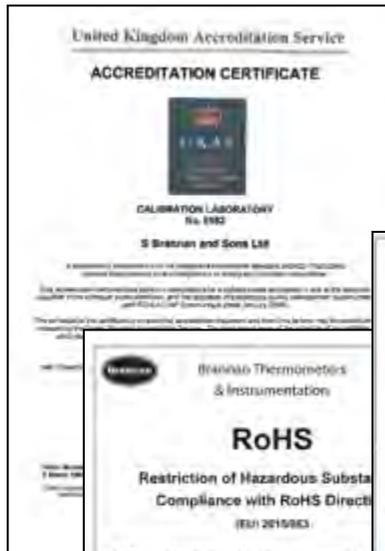
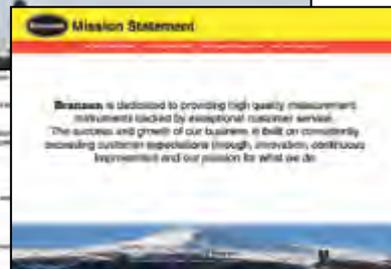


## Calibration Product Numbers

The following reference numbers should be used to request certification of instruments:

Instrument Type	Number of Points	Product Number		
		UKAS Accredited	Traceable to National Standards	Other
Certificate of Compliance	-	-	-	49/030/0
Hydrometer	3 points	49/049/0	49/040/0	-
	4 points	49/050/0	49/041/0	-
	5 points	49/051/0	-	-
Hydrometer - Statement of Conformity	-	-	-	49/085/0
Pressure Gauge	5 points	49/075/0	49/060/0	-
Vacuum Gauge	5 points	-	49/061/0	-
Compound Gauge	5 points	-	49/062/0	-
Dial Thermometer	1 point	-	49/099/0	-
	3 points	49/070/0	49/101/0	-
	4 points	-	49/104/0	-
	5 points	-	49/105/0	-
Temperature measurement in air	3 points	-	49/100/0	-
Thermometer (laboratory thermometers or external probe on digital thermometers)	1 point	49/501/0	49/099/0	-
	2 points	49/502/0	-	-
	3 points	49/503/0	49/101/0	-
	4 points	49/504/0	49/104/0	-
	5 points	49/505/0	49/105/0	-
	6 points	49/506/0	-	-
	7 points	49/507/0	-	-
	8 points	49/508/0	-	-
	9 points	49/509/0	-	-
	10 points	49/510/0	-	-
	11 points	49/511/0	-	-
	12 points	49/512/0	-	-
	13 points	49/513/0	-	-
Thermometer - Statement of Conformity	-	-	-	49/080/0

The following certificates and documentation are current at time of print. For most up to date certificates, please see our website.



## Other Brannan Catalogues available:



**Scientific  
Instrumentation  
Catalogue**



**Garden, Home  
& Leisure Range  
Catalogue**



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[plus.google.com/114245952167321950392/posts](https://plus.google.com/114245952167321950392/posts)



[twitter.com/Brannan\\_UK](https://twitter.com/Brannan_UK)

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