



# Budenberg



Made in Britain

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## Model: 32G, 33G 34G, 54G

An impressive technical specification and wide range of standard features make this thermometer the obvious choice for a wide range of process and engineering applications. where Mercury is not acceptable.

Gas Filled Thermometers with rigid stems are suitable for measuring and monitoring temperatures directly from the source of the heat.

Gas Filled Thermometers are often used in Chemical and Allied industries such as Offshore Oil & Gas where the atmosphere is corrosive and severe, due to weather.

The Gas Filled Thermometer is manufactured to compliment the Budenberg instrumentation product range. We can also supply Mercury Filled and Bi-Metallic thermometers and for all types we supply thermowells and other accessories.

### Size

100 mm (4") & 150mm (6")

### Mounting

Model 32G & P32G: Vertical / Bottom Entry

Model 33G & P33G: 90 degree angled Horizontal / Rear Entry

Model 34G, P34G & 54G: Horizontal / Rear Entry

### Case & Bezel

Model 32G, 33G & 34G: Metal Duotone Grey finish.

Model P32G, P33G & P34G: Grey Dough Moulded Compound\*

Model 54G: Stainless Steel

### Scale Ranges

-60 to 700 deg C or minus 76 to 1300 deg F

With a minimum range of 80 deg C and span of 400 Degrees C  
Single and dual scales are available

### Bulb Material

316 Stainless Steel

Sizes: 3/4" BSP. Others on request.

### Over-temperature

Units can be built to withstand significant over range temperatures on request.

### Connection Sizes

3/4" BSP standard

1/2" or 1" BSP/NPT (Others available on request)

### Connection Material

316 Stainless Steel

### Bulb Diameter

14.3mm and 10.3mm as standard

Other non standard sizes available as an option

### Bulb Length

Varies with temperature range and diameter of dial.

## GAS EXPANSION THERMOMETER RIGID STEM



### Dial

White Anodised Aluminium marked in black finish  
Single or dual scale

### Pointer

Stainless steel coloured black  
Options: Set pointer available

### Movement

Brass

Fitted with oil impregnated sintered bronze bushes  
Bi-metallic temperature compensator.

### Window

3mm Laminated Safety Glass (Standard)

Option: Acrylic Plastic Window

### Environmental Rating

IP55

IP66 when specified with weatherproof cast iron case.

### Traceability

All instruments are individually calibrated and have an unique Serial Number printed on the dial. A Certificate of Conformity Traceable to National Standards is Supplied Free of Charge  
Full Calibration certificates available at extra charge.

### Contacts and Switches

Gas Filled thermometers can be provided with:

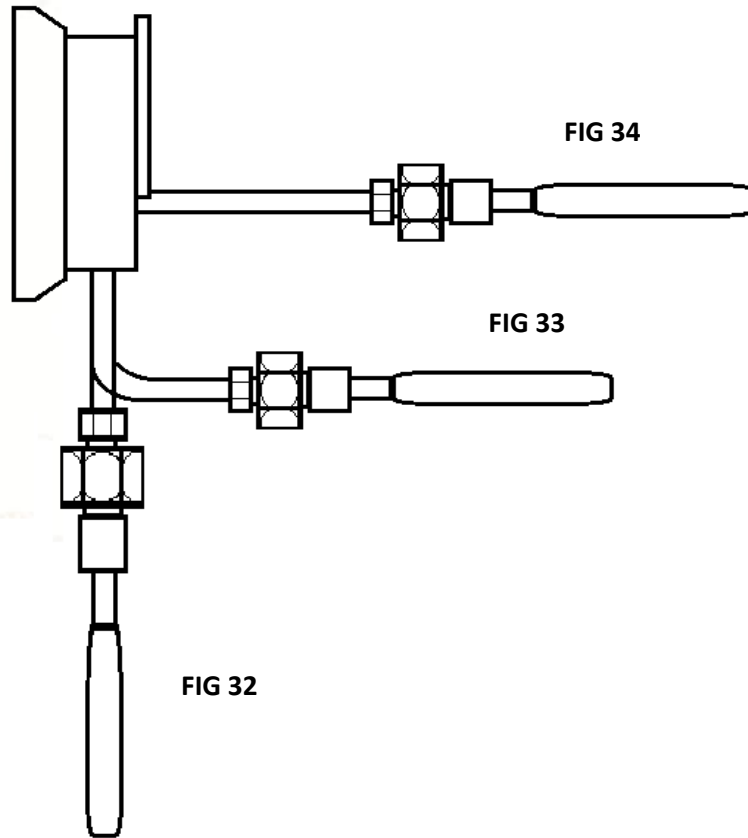
Model 134 Reed Switches

Model 144 Magnetic Assisted switches

### Accuracy Class

CL:1 1.0% of FSD to BS EN 13190:2001.

\* 150mm dial size only



Straight Stem	Angle Stem	Back Entry Stem	100mm 4"	150mm 6"	200mm 8"	Case Material
Fig 32G	Fig 33G	Fig 34G	■	■	■	Metal Case
Fig P32G	Fig P33G	Fig P34G	■	■		DMC Case
		Fig 54G	■			St Steel Case

**Accessories**

A wide range of thermowell styles and materials are available - See separate datasheet for details.