

BOURDON TUBE PRESSURE GAUGE PREMIUM RECEIVER TYPE



Budenberg

These pressure gauges are used in conjunction with pneumatic transmitters and have a range of 0.2 to 1 Bar or 3 to 15 lb/in². The dials can be graduated with any scale to suit the customer's application, such as depth, flow, content or temperature. Most common graduations are 0 to 10 or 0 to 100 (linear or sq root). The dials can also be left blank for users who calibrate and wish to produce their own bespoke dials.

An impressive technical specification and wide range of standard features make the PREMIUM the obvious choice for a wide range of process and engineering applications.

Embodying an all 316 Stainless Steel construction, the 966GP incorporates a solid baffle wall and blow out back for operator protection and standard features such as IP67 environmental protection, not normally available on comparative units.



Size

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

Mounting

Direct, Surface and Flush

Case & Bezel

Rugged one-piece full Safety Pattern case to S3 standard with a solid baffle partition wall and full blow out back manufactured in 1.6mm thick, 316L stainless steel. DMC Case is an option see 966TGP Datasheet

Scale Ranges

All ranged 0.2 to 1 Bar or 3 to 15 lb/in². Usual graduations are 0 to 10 or 0 to 100 (linear or sq root). The dials can also be left blank with basic triangles and dots for users who may wish to produce their own bespoke scales.

Pressure Element

316 Stainless Steel Bourdon Tube

Overload

Units withstands overload pressure up to 130% of FSD. Overload & vacuum stops are fitted on the movement.

Option: Mechanical overload clamps fitted internally to enable units to withstand up to 3x the max scale reading.

Pressure Connection in 316 Stainless Steel

3/8", 1/2" BSP

1/2" NPT

Other connections available, contact our Sales Dept for details

Accuracy Class

0.5% of FSD as defined in EN837-1

Temperature

Operating: -20 to +90 °C

Storage: -40 up to +100 °C

Options: for lower or higher operating temperatures, please contact our Sales Office

Dial

White Anodised Aluminium marked in black finish. Single or dual scale

Pointer

Stainless steel coloured black. Options: Micrometer adjustable pointer

Movement

Stainless Steel Construction. Option: Viscous Damped movement to overcome the effects of minor pressure pulsations

Window

3mm Laminated Safety Glass (Standard). Option: Acrylic Plastic Window

Environmental Rating

IP67 as defined in EN 60 529

Traceability

All instruments are individually calibrated and have a unique Serial Number printed on the dial. A Certificate of Conformity Traceable to National Standards is Supplied Free of Charge

Certification available

BS EN 10204 3.1B Material Certification

Point by Point Test Certificate

Safety

All units are manufactured to comply with EN 837-1, S3 specification and other regulatory standards including PED.

Installation instructions

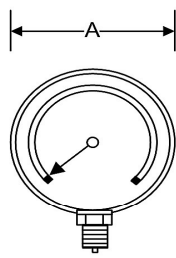
Refer to EN 837-2

Temperature Effect

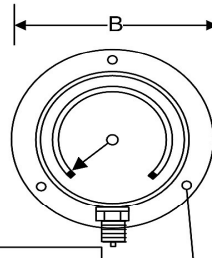
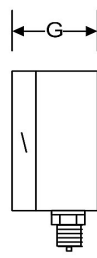
Variation in indication caused by temperature shall not exceed $\pm 0.04 \times (t_2 - t_1)\%$ of the span where:

t1 is the reference ambient temperature in degrees Celsius

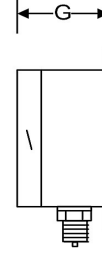
t2 is the ambient temperature in degrees Celsius



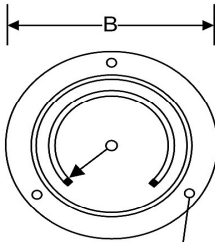
Direct Mounting 966RGP



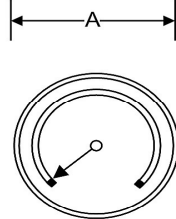
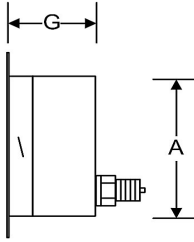
Surface Mounting 966FRGP



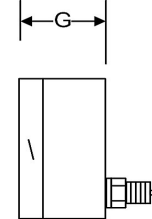
3 Holes D Dia on C PC Dia



Flush Mounting 11/966RGP



Direct Mounting Rear 966RGP -DR



3 Holes D Dia on C PC Dia

| Model No | A | B | C | D | G | Weight |
|----------------------|-------|-------|-------|-----|------|--------|
| 100mm 966 (Dry Case) | 105mm | 131mm | 118mm | 6mm | 52mm | 0.7kg |
| 150mm 966 (Dry Case) | 162mm | 183mm | 168mm | 6mm | 53mm | 1.34kg |

Options

- Case : DMC
- Mounting : Flush mounting clamp fixing available
- Element : 316L Stainless Steel
- Window : Acrylic Plastic Window
- Pointer : Micrometer adjustable Model 270
- Dials : Special sectors, Logos etc.

Accessories

For high temperature applications such as steam, see our range of syphons and adaptors. – See separate Datasheet.

We can supply Needle, Ball or 2 Valve manifolds for the Model 966GP – See separate Datasheet.

The manifolds in addition to allowing the instrument to operate normally allows the following: -

- a). Checking of gauge zero at line pressure.
- b). Complete isolation of the instrument.
- c). De-pressurisation of the instrument or controlled purging.
- d). Damping of pressure pulsations and surges.
- e). Inline calibration, allows in situation calibration

Specifications and dimensions in this leaflet, are subject to change without prior notice.

Budenberg Gauge Co Ltd
 4 Gilchrist Road. Northbank Industrial Park. Irlam. Manchester. M44 5AY.
 Tel : +44 (0)844 372 8900. Fax : +44 (0)844 372 8925.
 Email : sales@budenberg.co.uk Web: www.budenberginstruments.com