



# Budenberg

Made in Britain

4, Gilchrist Road, Northbank Industrial Park, Irlam, Manchester, UK. M44 5AY.

Tel : +44 (0)161 777 7300

Email : sales@budenberg.co.uk

Fax : +44 (0)161 777 7399

Web : www.budenberg.co.uk

## Model: 7214

Budenberg Standard Test Gauges are generally recognised as a world leader for accuracy and quality and are used by many Calibration Laboratories and workshops worldwide. The 7214 now provides a higher specification and incorporates many additional features as standard.

Housed in a robust stainless steel safety pattern case, the 7214 meets the full requirements of EN837 including a brighter anti-parallax mirror scale & knife edge pointer for accurate repeatable readings. Recalibration is simplified by inclusion of a micrometer adjustable pointer and printed calibration marks on the dials.

All units are supplied with a detailed calibration certificate that is traceable to National Standards.

### Sizes

150mm dial diameter

### Mounting

Direct, Surface Mounting

### Case

One piece safety pattern case to S3 standard manufactured in 316 stainless steel including an integral partition wall and full blow-out back.

### Bezel

Direct / Surface mount - Polished 316L Stainless Steel

### Scale Ranges

0 to 1 Bar up to 0 to 800 Bar Pressure  
Equivalent units of Pressure / Vacuum Available  
Dual Scale units or custom scales can be provided

### Pressure Element

Up to 80 Bar - Beryllium Copper Bourdon Tube and 316 Stainless steel connection.  
From 81 Bar - 600 Bar - 316 stainless steel coil and 316 Stainless steel connection.  
From 601 Bar up to 800 Bar Ni-Span C Coil & Stainless Steel connection

### Overload

Units will withstand the following overload pressure conditions for a short period:

Max Scale Value	Over Pressure to be Applied
≤ 80 Bar	130% of Maximum Scale Value
≥ 81 to 100 Bar	120% of Maximum Scale Value
≥ 601 Bar	115% of Maximum Scale Value

### Pressure Connection

1/2" BSP or 1/2" NPT  
Other connections including HF2 high pressure are available contact our Sales Office for Details

## PREMIUM TEST GAUGE ACCURACY 0.25%



### Accuracy Class

0.25% of FSD as defined in EN837-1

### Dial

White anodised Aluminium with Mirror Scale with Anti Parallax mirror scale for accurate reading.  
Option: Dual scales or special dial markings are available

### Pointer

Micrometer Adjustable, Knife-edge, Stainless Steel coloured Black

### Movement

316 Stainless Steel with Jewel Bearings for Improved Accuracy & Sensitivity

### Window

Laminated Safety Glass

### Environmental Rating

Dust Proof and Splash Proof to IP67 rating

### Temperature

Operating: -20 to +60 Degrees C  
Storage: -40 up to + 70 Degrees C  
Options: For lower or higher operating temperatures, please contact our Sales Office.

### Certification

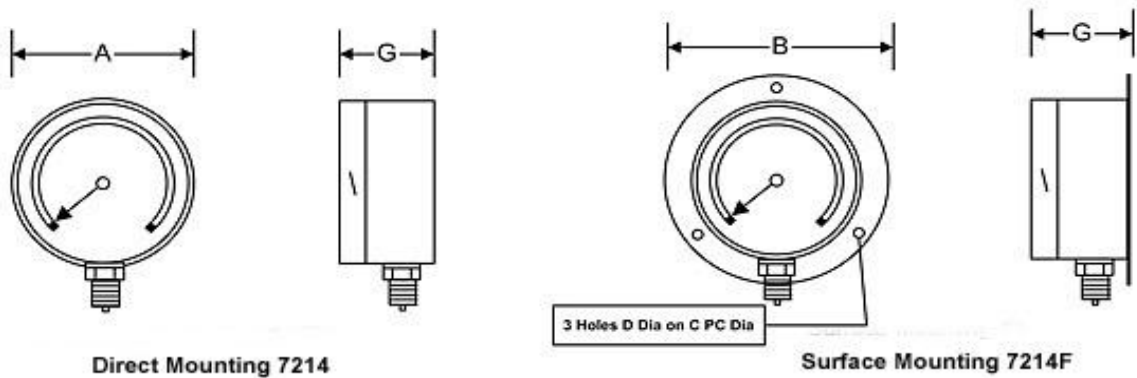
All instruments are individually calibrated and have an unique Serial Number printed on the dial. A Certificate of Conformity & Detailed Test Certificate traceable to National Standards is supplied free of charge.

### Calibration

All units are individually calibrated to suit the test medium being used i.e. Gas or Liquid. It is important therefore to specify the medium at time of order

### Safety

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



**Direct / Surface Mounting**

Model No	A	B	C	D	G	Weight
150mm 7214 Direct Mounting	162mm				53mm	1.34 Kg
150mm 7214 Surface Mounting		183mm	168mm	6mm	53mm	1.34 Kg

**Options**

Oil free Test Gauges are available, the tubes and blocks of the Model 7214 are vapour de-greased before assembly and the strictest precautions are taken to see that no oil enters the tube during manufacture, the dial is marked "Use No Oil".

UCAS traceable certification available on request.

**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 7214 – 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). Inline calibration, allows in situation calibration

**Applications**

- a) Calibration of pressure gauges, transducers and transmitters.
- b) Calibration of pneumatic controllers, valves etc.
- c) Measurement of pressure on test beds in Aero, hydraulic systems, diesel engine injection systems.
- d) Setting of pressure relief valves.
- e) Measurement of pore water pressure in soil mechanics laboratories.
- f) Efficiency testing of steam turbines in power stations, gas turbines and compressors.