

Model: 966H2

A specific technical specification and make-up ensures the Budenberg Hydrogen Range is the clear option when selecting an instrument for use on Hydrogen applications.

Boasting an all 316 Stainless Steel S3 Safety Pattern construction, the 966H2 range contains a solid baffle wall, blow out back and laminated safety glass for operator protection and standard features shown within our standard Premium Range such as IP67 environmental protection, not normally available on comparative units.

A unique build, Oil Free as standard, to specifically target the Hydrogen & renewable energy market, the 966H2 can be customised to any mounting option, dial size (63mm, 100mm or 150mm), Overrange Protection requirements, or range from 600mBar up to 1400 Bar to suit any customer's requirements.

Size

63mm (2 1/2"), 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

Scale Ranges

0 to 600 mbar to 0 to 1400 bar Pressure
Equivalent units of pressure / vacuum available Single and dual scales are available

Pressure Element

≤80 Bar – 316 Stainless Steel Bourdon Tube
≥81 Bar – 316 Stainless Steel Coil

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

CL:1 1.0% of FSD as defined in EN837-1
Option: 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

BOURDON TUBE PRESSURE GAUGE HYDROGEN (H₂) SERVICE



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 an 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

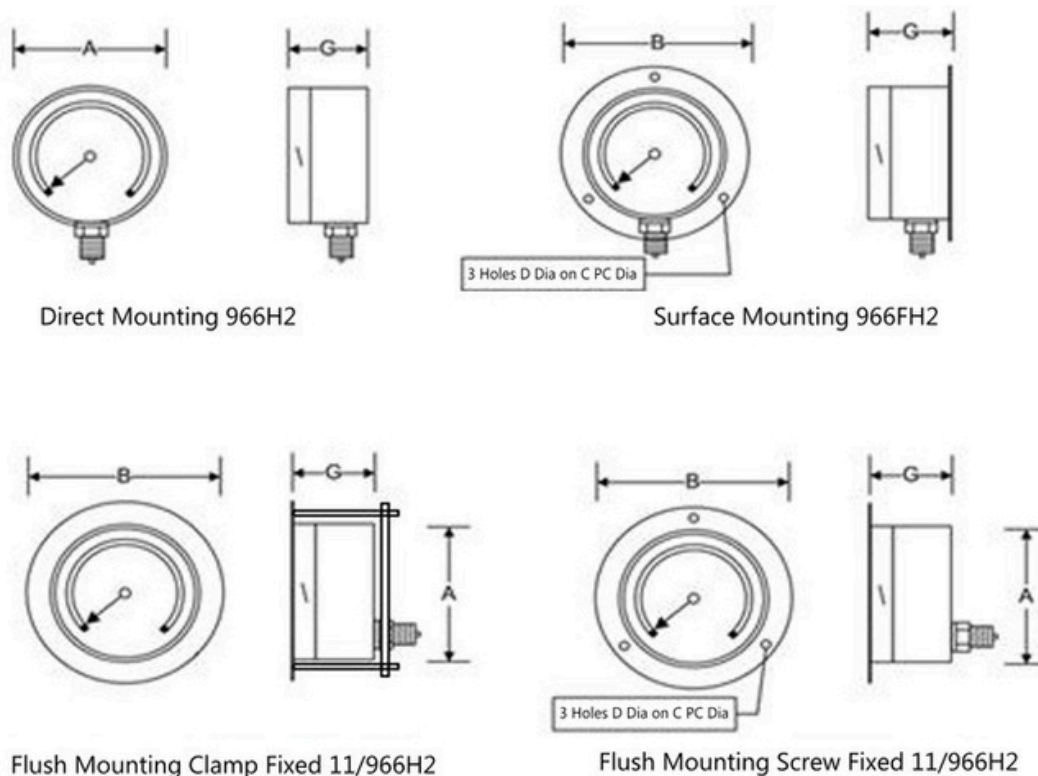
Refer to EN 837-2

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

Dimensions

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Model No.	A	B	C	D	G	Weight
63mm 966 (Dry Case)	64mm	85mm	75mm	3.8mm	42mm	0.3Kg
100mm 966 (Dry Case)	105mm	131mm	118mm	6mm	52mm	0.7Kg
150mm 966 (Dry Case)	162mm	183mm	168mm	6mm	53mm	1.34Kg

Options

Element: 316L Stainless Steel
 Accuracy: 0.5% of FSD as defined in EN837-1
 Window: Acrylic Plastic Window
 Pointer: Micrometer adjustable Model 270
 Dials: Special sectors, Logos etc.

Accessories

We can supply Needle, Ball or 2 Valve manifolds for the Model 966H2 – See separate Datasheet.

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

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