

MODELS - 3503



SUBSEA Differential Pressure Gauges

Standard Hyperbaric test 1.1 × Design Depth Pressure.

APPLICATIONS

Specially developed to meet the need for gauges working at great depths under the sea and in Hyperbaric conditions. Measures the true differential pressure of the system with reference to sea level atmospheric pressure where the gauge case is sealed.

Reinforced case prevents ambient pressure affecting the inlet pressure reading.

Dry, Liquid Fillable or Pre-Filled.

With liquid-filled case for applications with high dynamic Pressure pulsations or vibration.

STANDARD SPECIFICATION

SUBSEA Gauge (protected against complete, continuous submersion in water to IP68)

Sizes

100 mm

Case/ Bezel

AISI 316 Stainless Steel (Also available in Monel) (Manufactured from a solid billet). Pressure tight for depths up to 1,000 ft (300 mtr) of water.

Special gauges can be manufactured for depths up to 10,000 ft (3,000 mtr) of water.

Liquid filled (recommended)

Socket & Element

316 Stainless Steel (Also available in Monel see **Optional Extras**)

Movement

Stainless Steel Construction

Dial

Anodised Aluminium

Gauges can be supplied with either White lettering on Black background (non glare) or Black lettering on White background (Please state preference)

bespoke colours and designs are available upon request.

Pointer

Black Aluminium

Window

Toughened glass on 1000ft gauges

Acrylic on 4000,5000 & 10000ft gauges.

Traceability

All instruments are individually calibrated and have an unique Serial Number on Dial.

Certification available on request

- Certificate of Conformity Traceable to National Standards
- Group Certification (Pressure Test Calibration Statement)
- Point to Point Test Certificate
- BS EN 10204 3.1 Material Certification

Installation instructions

Refer to EN 837-2 and our *Guidance On Use of Equipment* data sheet.

Accuracy class

2% Accuracy

Scale Range

Working Ranges & Max Static Pressure

Delta P range: Min 0.3 bar
Max Up to Max Static Pressure

Static pressure Max 600 bar (*Able to withstand full MSP on one side only*)

(Maximum ratio Static to DP 10 : 1)

Measuring Element

St/St Bourdon Tubes (Standard)

Pressure Connection Thread

1/8", 1/4", 3/8", 1/2" NPT, BSP, BSPT (1/8" Threads limited to 400 bar)

Model-3503/PCSF



Model-3503/PCS Surface Mounted

Model-3503/PCD Direct Mounted (Standard)

Model-3503/PCSF Flush Mounted Screw Fixing

Dimensions available on request.

Operating Temperature Range EN837

-20° to 60°C (-4°F to 140°F) without loss of accuracy.

Options for lower/higher operating ranges (Contact Sales)

Temperature Error

Additional error when temperature changes from reference Temperature of 20°C (68°F) ±0.4% for every 10°C (18°F) rising or Falling % of span

Optional Extras

- Optional dial materials & Custom markings
- Monel according to ISO 15156 / NACE MR-01-75 wetted parts
- Other pressure connections (Including high pressure)
- Customer logo printed on dial
- Liquid filled / Suitable for liquid filling

Further options on request

* Gauges can be Recalibrated (Please return to manufacturer)

Ordering Parameters, Please state the following: SIZE, MODEL NO, SCALE RANGE, CONNECTION, PRESSURE MEDIUM & OPTIONAL EXTRAS