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.

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
½" - ¾" - ¾" - ½" NPT, BSP, BSPT (¼" Threads limited to 400 bar)

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)

Dry, Liquid Fillable or Pre-Filled. With liquid-filled case for applications with high dynamic Pressure pulsations or vibration.

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

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

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