

S401 Subsea Pressure Transmitter Pressure feedback for Marine, offshore and submersible applications

- Pressure range set to customer's requirement
- Compact and self-contained
- High durability and reliability
- High accuracy and stability
- IP68 sealed to 10bar/IP69K
- Sealed gauge type



The S401 is a high quality 316 stainless steel subsea pressure transmitter intended for use in the measurement of gasses and liquids in submerged marine and offshore applications.

With additional EMI/ RFI protection, low static and thermal errors and high resistance to shock and vibrations as standard, the S401 assures trouble free operation at temperatures up to 125°C. The piezo resistive sensing element coupled with the latest ASIC circuitry, assures excellent accuracy, choice of high level outputs and long stability, protected with a rugged, stainless steel housing.

Measurements are available with ranges up to 2000bar and are backed by a one year warranty.

SPECIFICATION

Dimensions Body diameter

Body length 119.5mm to For full mechanical details see drawing S401-11 119.5mm to 121.5mm (depending on option)

Temperature Coefficients

Mean TC Offset ≤0.15 % of the range Mean TC Range ≤0.15 % of the range

Environment

Measuring medium Ambience -40...125°C -40...105°C -40...125°C Storage Compensated range -20...85°C Sealing Vibration IP68 10bar/ IP69K 25 G peak, 20 to 2000 Hz Shock 1000 G, 11 msec , 1/2 Sine

Performance Accuracy @ RT

<0.5% of the range Non-linearity % of the range ≤0.15 Repeatability % of the range ≤0.10 % of the range ≤0.10 (10..90%) t(ms)1 Stability/year Response Time Overrange pressure Ùp to 2x rated pressure Up to 5x rated pressure Burst pressure Pressure cycles > 10 million Current consumption < 10 mA

TABLE OF OPTIONS

Pressure Range (bar): 0.6, 1, 1.6, 2.5, 4, 6, 10, 16, 25, 40, 50, 60, 100, 160, 250, 400

For other pressure ranges please contact Positek

ELECTRICAL INTERFACE OPTIONS

OUTPUT SIGNAL SUPPLY INPUT 0-10V 12-32V DC

0-5V 1-5V 8-32V DC non ratiometric 8-32V DC non ratiometric

0.5 - 4.5V5V ratiometric 4-20mA 10-32V DC I²C DIGITAL 5V DC

Cable 50cm standard. Any length can be specified.

Mounting Option G1/4" Male or 1/4" NPT Male

For further information please contact: www.positek.com sales@positek.com

Tel: +44(0)1242 820027 fax: +44(0)1242 820615 Positek, Andoversford Industrial Estate, Cheltenham GL54 4LB. U.K. S401-17b

