HIGH ACCURACY

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PRODUCT DATASHEET

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Product Data Sheet
April 2016
226-30-0020-DS, Rev D

Paine 226-30-0020 Series Pressure Transmitter

CANopen® Digital, Submersible Differential Pressure and Temperature

The 226-30-0020 Series CANopen® Submersible Differential Transmitters offer precise pressure measurement of liquids and gases from 0-10,000 PSID (690 BAR), with the added value of temperature measurements from +25 °F to +175 °F (-4 °C to +80 °C).

Industry standard CANopen®, Subsea Instrumentation Interface Standardization (SIIS) Fault Tolerant Level 2 output, the 226-30-0020 Series is fully submersible and perfect for subsea networking solutions providing high resolution differential measurement, reliability and performance.

EMERSON
Process Management

Solutions

- Fully Submersible.
- CANopen® Network Ready.
- Digital Measurement Accuracy.
- Pressure and Temperature.
- Universal Mounting.

Potential Applications

- Subsea Processing, Pressure and Temperature.
- Control Pod Pressure and Temperature
- Wellhead Pressure and Temperature.
- ROV Controls.
- Subsea Hydraulic Controls.

Features

- **Differential Pressure Range:** 0-10,000 PSID (690 BAR) each port.
- **External Case Pressure:** 6,000 PSI (414 BAR).
- **Operating Temperature:** +25 °F to +175 °F (-4 °C to +80 °C).
- **Digital Output:** CANopen®, CIA 443 (Fault Tolerant SIIS Level 2).
- **Pressure Resolution:** 16 bits minimum.
- **Temperature Output:** °F or °C.
- **Temperature Resolution:** 13 bits minimum, better than 0.05 °F.

Specifications

Calibration: Calibration Certificates are supplied with each unit and available on-line.

Performance

Pressure Output in PSI: Fully compensated for the effects of temperature and non-linearity.

Pressure Resolution: 16 Bits minimum (see Pressure Table).

Temperature Output: °F or °C.

Temperature Measurement: -4 °F to +175 °F (-20 °C to +80 °C).

Temperature Resolution: 13 bits minimum. Better than 0.05°F.

Environmental

Operating Temperature Range: +25 °F to +175 °F (-4 °C to +80 °C). Connector Rating.

Calibrated Temperature Range: +32 °F to +122 °F (0 °C to +50 °C)

Pressure Media: Fluids and gases compatible with NO7725, solution annealed and aged to a maximum hardness of 43 HRC.

External Case Pressure Media: Fluids and gases compatible with NO7725, solution annealed and aged to a maximum hardness of 43 HRC and 316SS.

Proof Pressure: 150% of rated range (line).

Burst Pressure: 250% of rated range (line).

External Case Pressure: 6,000 PSI (414 BAR) maximum.

Contents

Mechanical

Pressure Range: Contact factory for additional pressure ranges.

Pressure Table				
Standard Part Number	**Common Mode (Line) Range PSI MAX (BAR)**	**Differential Pressure Range PSID (BAR)**	**Pressure Resolution (Better Than)**	**Common Mode Differential Pressure Error (% of Full Scale)**
226-30-0020-10K0	0-10,000 PSI (0-690 BAR)	± 10,000 PSID (± 690 BAR)	0.10 PSI	± 0.25%

Proof Pressure: 3/8-in. female Autoclave Engineers medium pressure fitting. Fitting torque: 25-30 ft-lb.

Weight: 30.0 oz maximum.

Electrical

Digital Output: CANopen®. Meets the requirements of CIA 433, Subsea Instrumentation Interface Standardization (SIIS) Level 2, Fault Tolerant.

Input Voltage: 20 — 27 VDC.

Input Current: 25 mA maximum.

Insulation Resistance: All pins together to case. 1,000 M Ω minimum at 50 VDC, 75 °F ±10 °F (24 °C to ± 6 °C).

Over Voltage Protection: Protected from damage up to 36 VDC.

Reverse Polarity: "POWER IN" is protected from the application of reverse polarity.

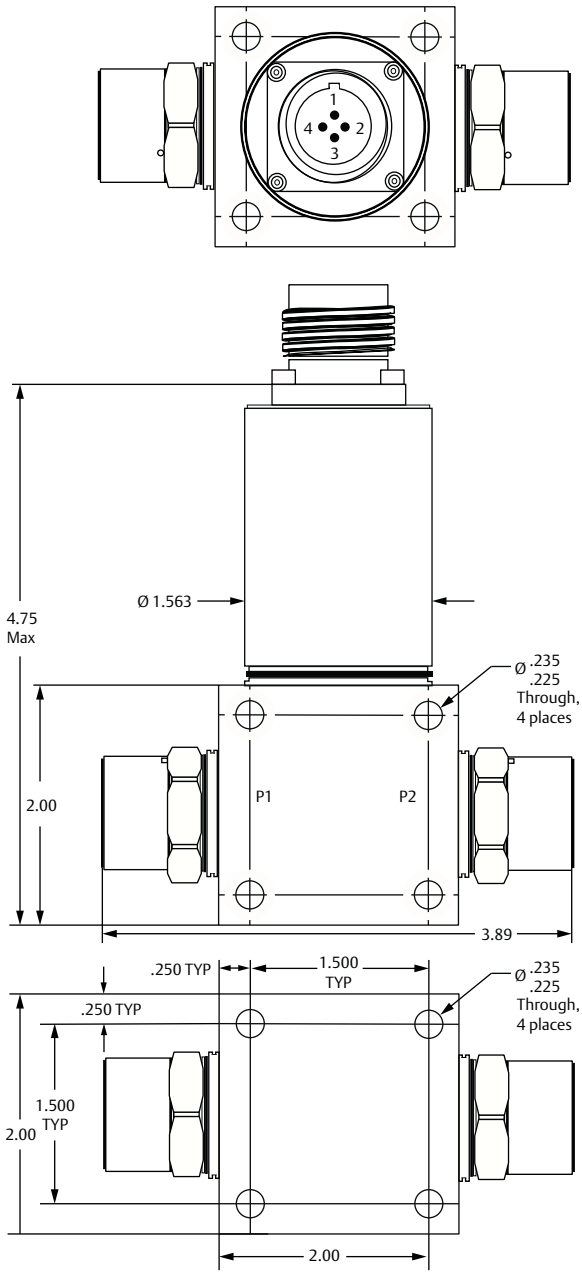
Differential Pressure Signal Polarity: Positive pressure signal if P1 > P2.

Electrical Connection: Mates with Teledyne® subsea MHDG-4-CCP or equivalent. Mating connector not provided.

User Guide and Programming: Document 200.303 provided.

Dimensional Drawings

Figure 1. 226-30-0020 Series



Connections	
PIN	**Function**
1	Power in
2	Power return
3	Can high
4	Can Low

Dimensions are inches.

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measurement instruments

Our offering:

	Pressure Measurement		Level Measurement
	Temperature Measurement		Flow Measurement
	Marine Measurement & Analytical		Gas Analysis
	Liquid Analysis		Flame and Gas Detection
	Tank Gauging		Wireless Infrastructure
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