

AMPLIFIED, HIGH TEMPERATURE, SERIES PRESSURE TRANSDUCERS



The **213-36-940 High Temperature Amplified Series** pressure transducers are offered at pressure ranges from **0-5,000 to 0-30,000 PSIG or PSIA**, **0.1V to 4.5V** nominal output, operate at temperatures from **+25°F to 400°F (3°C to 204°C)** and provide high level output signal amplification.

Designed for extreme performance, reliability and stability in the toughest applications, the **213-36-940 High Temperature Amplified Series** are well suited for small diameter deep well tool applications based on its narrow body diameter, high operating temperature and a static error band of $\pm 0.150\%$ at full scale output.

The **213-36-940 High Temperature Amplified Series** can be provided with alternate port fittings and electrical connections to meet your specific requirements and available in **Absolute** or **Gauge** for differential pressure measurements.

Specifications

Typical Performance: The following parameters are established from production units.

Calibration Data: Calibration Certificates are supplied with each unit.

Note: This is a vented unit. Environmental conditions may affect balance on vented gauge units.

Performance: *

Static Error Band: $\pm 0.150\%$ of F.S.O.

Total Error Band Including Non-Linearity, Hysteresis, End Point Settings, and Thermal Effects: 2.0% nominal, 4.0% maximum Full Scale Output (F.S.O.).

Environmental Error due to Combined Effect of Shock, Vibration and Acceleration: $< 0.02\%$ of F.S.O. per G, 20G maximum.

Output at Zero Pressure: 0.1 ± 0.05 VDC.

Output at Rated Pressure: 4.5 ± 0.05 VDC.

Operating Temperature Range: +25°F to +400°F (3°C to +204°C).

Calibrated Temperature Range: +75°F to +400°F (23°C to +204°C).

Mechanical: *

Pressure Range: 0-5,000 PSIG to 0-30,000 PSIG.

Proof Pressure: 150% of rated range (depending on part option).

Burst Pressure: 250% of rated range (depending on part option).

External Case Pressure: Must not exceed 30,000 PSI at +400°F.

On gauged units, port pressure must be greater than or equal to external case pressure at all times.

Pressure Media:

Port: Any compatible with Inconel 718 ®™

Vent: On gauged units, non-conductive, non-corrosive hydraulic fluid.

Electrical Connections: High temperature solderable pins.

Pressure Port: .625-18 UNF-2A. O-ring seal.

Weight: 6.0 ounces maximum (.170 kg).

Electrical: *

Input Excitation: 5.00 VDC with no reverse polarity protection (output ratiometric).

Input Current: 20 mA maximum.

Input / Output Isolation: Not isolated.

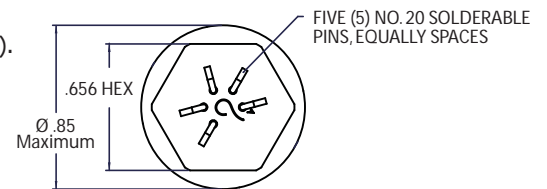
Insulation Resistance: 100MΩ minimum. All pins to case, 50 VDC at 77°F.

Output Current: 2.5 mA maximum (Short Circuit Protection).

Electrical Connections: A= + Input, B= + Output, C= Output Return, D= Input Return (C & D Internally Connected), E= N/C

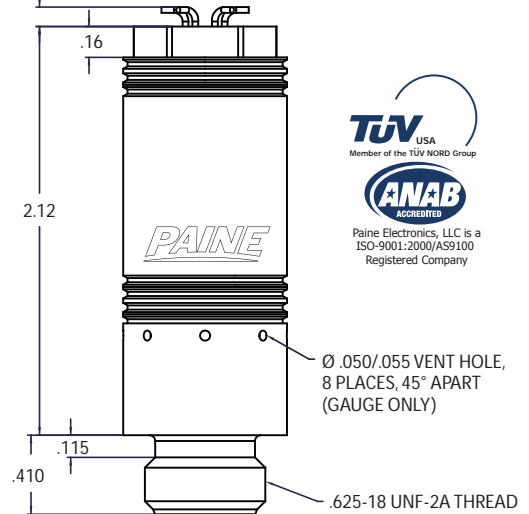


213-36-940-XX*
0-5,000 to 0-30,000
PSIG or PSIA



.125 Maximum

Actual Size



Paine Electronics, LLC is a
ISO-9001:2000/AS9100
Registered Company

Datasheet P/N: 213-36-940-DS_REV-D

* Contact us or your authorized Paine Electronics representative for other standard and/or custom configurations or options.

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