"Pressure Instrumentation For the Toughest Applications"

Downhole +600° F, High Temperature Pressure Transducer Series

Designed to survive extremely high temperature while providing exceptional pressure performance, accuracy, long term stability, reliability and repeatability. These pressure transducers can withstand continuous operating temperatures up to **+600°F (+316°C)** and are well suited for **End User** and **OEM applications** in **Energy Exploration** and **Production**, **Geothermal**, **Power Generation** and more....

The units are available in pressure ranges up to **+50,000 PSIA**. Featuring 2.6mV/V nominal output with a total error band including thermal effects of ± 0.2% Full Scale Output or better as referenced to a 2nd order polynomial. With a hermetically sealed, welded all Inconel® 725 construction for environmental protection, these units are well suited for the toughest applications.

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

211-55-010-XX*
0-5,000 to 0-50,000 PSIA

Specifications:

Typical Performance: The following parameters are established from production units.
Calibration Data: Calibration Certificates are supplied with each unit.

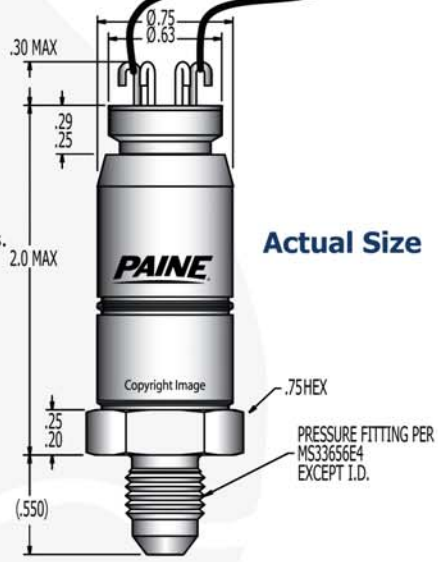
Performance: *

Non-Linearity and Hysteresis Combined: ± 0.150% Full Scale Output (F.S.O.) maximum (Best Straight Line Method).
Total Error (Non-Linearity, Hysteresis and Thermal Effects) Bounds Shall Be: ± 0.200% F.S.O. as compared to the serial number specific polynomial model P(T mv) for all input pressures and temperatures over the calibrated range.
Operating Temperature Range: -40°F to +600°F (-40°C to +316°C).
Calibrated Temperature Range: +75°F to +500°F (+23°C to +260°C).

Mechanical: *

Pressure Range: 0- 5,000 to 0-50,000 PSIA.
Proof Pressure: 110% to 150% of rated range (depending on part option).
Burst Pressure: 133% to 200% of rated range (depending on part option).
Pressure Media: Any compatible with UNS N07725, solution annealed and aged to a maximum hardness of 43 HRC.
Environmental: Error due to combined effects of shock, vibration and acceleration shall be less than 0.01% of F.S.O. per G.
Electrical Connections: High temperature solderable connections. Six inch 22 AWG jacketed leads.
Pressure Port: Per MS33656-E4.
Weight: 2.0 ounces maximum (.056 kg)
Installation Information: 37 degree flare. For optional mounting configurations, contact Paine Electronics.

(6) SIX INCH FLYING 22 AWG, 7 STRAND, 27% NICKEL COATED COPPER, FIBERGLASS JACKETED LEADS



Actual Size

Electrical: *

Excitation: 1 to 20 VDC (10 VDC nominal).
Input Resistance: 1500 ± 300Ω.
Output Resistance: 1500 ± 150Ω.
Output At Zero Pressure Over The Calibrated Pressure Range: 0 ± 2.5 mV/V.
Full scale (F.S.) Sensitivity over the Calibrated Temperature Range: 2.6 mV/V nominal.
Platinum Resistance Temperature Detector (RTD): 0°C 1000Ω ± .06%Ω to IEC 751, Class A Alpha = .00385 nominal.
Insulation Resistance: All conductors together to case: 10GΩ Min at 50 VDC and +77°F.
Electrical Connections: A= + Excitation, B= + Signal, C= - Signal, D= - Excitation, E= RTD, F= RTD

Datasheet P/N: 211-55-010-DS_REV-F

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

Call or email us today for more information!

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