

PRESSURE TRANSMITTER, ABSOLUTE, 4-20mA, 214-35-500 SERIES



The **214-35-500 Series** is designed for the offshore oil & gas, ROV and submersible sub-sea applications. It is offered in pressure ranges from **0-1,000 to 0-20,000 PSIA**, **4-20 mA** output and operates at temperatures from **-65°F to +230°F** (-53°C to +110°C).



With it's all-welded, high corrosion resistant alloys and connection options for submersible sub-sea applications, the **214-35-500 Series** provides maintenance free performance in a rugged **10,000 PSI external** case pressure package.

Features & Options: Accuracy, Reliability & Thermal Performance, optional **Sea Con® XSEE-3-BCR Bulkhead Connector**, designed for long term seawater immersion, reverse polarity protection, Customized designs & options available.

Specifications: (214-35-520-XX and 214-35-530-XX)

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

Calibration Data: Calibration Certificates are supplied with each unit.

Performance: *

Static Error Band: Includes the effects of non-linearity, hysteresis and repeatability.

The static error band shall not exceed $\pm 0.50\%$ of the full scale output (Best Straight Line Method).

Thermal Zero Shift: 0.01% of Full Scale per °F maximum across the compensated temperature range.

Thermal Sensitivity Shift: 0.01% of Full Scale per °F maximum across the compensated temperature range.

Zero Pressure Output: 4.00 ± 0.16 mA.

Output at Full Scale Pressure: 20.00 ± 0.16 mA.

Operating Temperature Range: **214-35-520-XX:** -65°F to +230°F (-53°C to +110°C),

214-35-530-XX: -65°F to +200°F (-53°C to +93°C).

Compensated Temperature Range: **214-35-520-XX:** -25°F to +185°F (-31°C to +85°C),

214-35-530-XX: -25°F to +160°F (-31°C to +71°C).

Mechanical: *

Pressure Range: 0-1,000 to 0-20,000 PSIA. Optional pressure ranges available upon request.

Proof Pressure: 150% of rated range.

Burst Pressure: 200% of rated range.

External Case Pressure: **214-35-520-XX:** 6,500 PSIG, **214-35-530-XX:** 10,000 PSI.

Pressure Media: Any compatible with 17-4 PH and 15-5 CRES.

Electrical Connections: **214-35-520-XX:** Insulated wires, 18 AWG minimum,

214-35-530-XX: SEA CON® XSEE-3-BCR bulkhead receptacle.

Pressure Port: 1/4-18 NPT internal thread.

Weight: **214-35-520-XX:** 10 ounces maximum (0.28 kg),

214-35-530-XX: 15 ounces maximum (0.42 kg).

Electrical: *

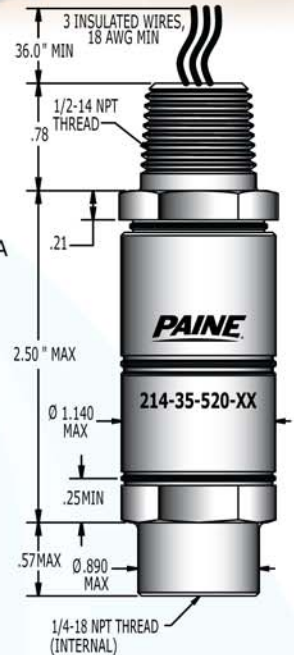
Input Voltage: +15 to +24 VDC.

Signal Current: 4-20 mA.

Insulation Resistance: **214-35-520-XX:** Black and White leads to case: 100MΩ minimum at 100 VDC, **214-35-530-XX:** Pin A and Pin B leads to case: 100MΩ minimum at 500 VDC at 75°F. Line transients are suppressed to 100 VDC.

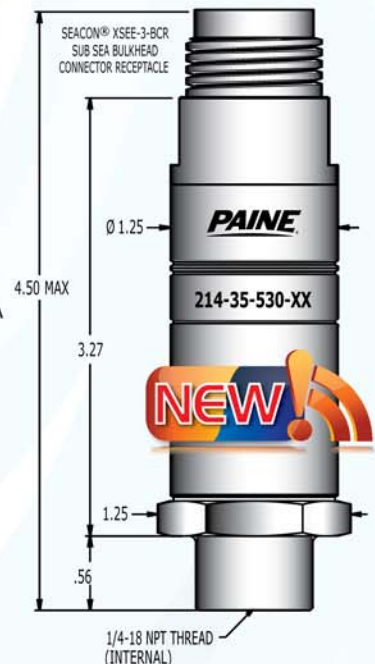
Electrical Connections: **214-35-520-XX:** Black= + Input, White= Input Return, Green= Case Ground, **214-35-530-XX:** Pin A = + Input, Pin B = Input Return, Pin C = Case Ground.

214-35-520-XX
0-1,000 to 0-20,000 PSIA



Paine Electronics, LLC is a proud ISO-9001/AS9100 registered company

214-35-530-XX
0-3,000 to 0-7,500 PSIA



Datasheet P/N: 214-35-5XX-DS_REV-A

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

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