

DIFFERENTIAL, PRESSURE TRANSMITTER SERIES

The **214-60 Series** is ideally suited for high precision applications such as high static/low-flow measurements, high differential, hydraulic and pneumatic test systems and where differential or gauge pressure measurements are required.

The **214-60 Series** pressure transmitters are extremely rugged, watertight, hermetic all welded construction and fully calibrated to provide accurate measurements of differential or relative pressures in ranges between 0-100 PSID to 0-20,000 PSID.

Field-proven in the most extreme applications, the **214-60 Series** thermal sensitivity and thermal zero shift is less than 0.01% of full scale with a static error band of $\pm 0.5\%$ of full scale (BSL) and is calibrated in the temperature range of **-65°F to +170°F (-53°C to +76°C)**



214-60 SERIES
0- 20,000 PSIG
12 lb. Max (5.4kg)

STANDARD & CUSTOM OPTIONS AVAILABLE

- ♦ Optimum Accuracy
- ♦ Strain-Gauge Bonding
- ♦ Standard & Custom Outputs
- ♦ Electrical Termination Options
- ♦ Thermal Compensation
- ♦ All Welded Construction
- ♦ Material Options
- ♦ Pressure Port Options



"PRESSURE INSTRUMENTATION, FOR THE TOUGHEST APPLICATIONS"

The leader in precision pressure measurement technology since 1951, Paine Electronics provides high quality, reliable custom pressure instrumentation to a world of Sub-Sea applications. Paine utilize's proven, proprietary technology providing flawless operation in the toughest Sub-Sea applications. Applications that would typically destroy most sensitive instruments.

Paine provides standard as well as custom pressure instrumentation. Our state-of-the art facility allows us the ability to provide custom solutions even in small quantities, giving our customers the highest level of design flexibility, service and responsiveness. Whatever your special requirements, unique outputs, electrical, pressure, fittings, media or environments - **Paine is ready to help with your next custom device!**

PAINE

Call or email us today for more information!

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PAINE

SUB-SEA

PRESSURE INSTRUMENTATION FOR THE TOUGHEST APPLICATIONS

CANBUS, DIGITAL PRESSURE TRANSDUCER SERIES

Paine's high resolution digital transducer is ready for **Controller Area Network (CAN) Bus** systems enabling device communication in the toughest environments, found in sub-sea, industrial, automation, military and automotive applications.

The **220-38 Digital Series** transducers are designed to accommodate customer-specific applications, offering a wide range of pressures, supply voltages, electrical terminations, provides temperature in Celsius or Fahrenheit and provides a static accuracy of <0.075% of full scale.

The **220-38 Digital Series** transducers feature all-welded, hermetically sealed construction, linearity and temperature correction, self test, state of health status, outputs in PSI, Bar, Pascal or other pressure units upon request.

Featuring a **CANBus** serial communications interface, the **220-38 Digital Series** uses the standard **CANopen** protocol. Multiple transducers can be used on a single bus reducing user cabling, implementation and installation costs.



220-38-010-XX
0-15,000 PSIS

4-20MA, ABSOLUTE, PRESSURE TRANSMITTER

Designed to survive the most demanding Sub-Sea applications while providing exceptional performance, accuracy, long term stability, reliability and repeatability. The **214-35-520** pressure transmitters utilize Paine's proven, proprietary sensor technology and can withstand continuous operating temperatures up to **+260°F (+125°C)**.

The **214-35-520** features a wide range of pressure options, a small size, rugged design, hermetic all welded construction, fully calibrated and environmentally tested to rigorous standards appropriate to the harshest End User and OEM Sub-Sea environments.

The **214-35-520** transmitters are available in standard pressure ranges up to **+20,000 PSIA** and features a .010% thermal zero and thermal sensitivity shift over full scale per °F across the compensated temperature range.



214-35-520-XX
0-5,000 to 0-20,000 PSIA

TYPICAL APPLICATIONS

- ◆ Sub-Sea Platforms
- ◆ Blow-Out Preventors
- ◆ Ocean Pump Stations
- ◆ Hydraulic Manifolds
- ◆ Production Pods
- ◆ ROV's & AUV's
- ◆ Well Head
- ◆ Control Valves
- ◆ Flow Meters
- ◆ Pressure Monitoring



QUALITY, CRAFTSMANSHIP & DECADES OF PERFORMANCE

Strain-Gauge Bonding: Paine's strain-gauge techniques offer unique advantages over other types of technologies and sensing methods, enabling our instruments to deliver critical zero point repeatability, infinite resolution, long-term stability, minimized thermal coefficients of expansion, high accuracy & reliability.

Standard & Customized Outputs: Standard and customized outputs mV, high-level 0-5 VDC and 4-20 mA current loop, **CANBus**, RS232 and RS485. High-level output units can be offered with or without electrical isolation.

Electrical Terminations: Paine provides a variety of electrical terminations, including connectors, J-hooks, flying leads, cable, and others as defined by the customer.

Thermal Compensation: Intrinsic compensation can be applied reducing Thermal Effects and providing optimum linearity.

All-Welded Construction: Welded construction for the most severe Sub-Sea applications. Every Sub-Sea transducer is hermetically sealed, protecting both the electronics and strain gauges from exposure to the environment.

Variety of Materials: Paine uses a variety of materials for pressure-media compatibility and Sub-Sea applications. Examples include 316, 17-4 PH CRES, 15-5 PH CRES, Titanium and 718 Inconel and more.

Pressure Ports: Paine provides a wide range of industry specific pressure ports as well as any customer requested port connection.

Call or email us today for more information!

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