

# Paine 212-75-090 Series Pressure Transmitter

VDC, Rugged, Industrial, +121 °C, 0-100 to 0-10,000 PSIS (6 to 689 BAR)



The 212-75-090 Series is our industrial VDC transmitter specifically designed to help manage your pressure measurements by more efficiently providing rapid, accurate information that enhances your systems operational performance, thus reducing possible failures and lowering operational and maintenance expenses.

With internal amplification, the 212-75-090 Series is provided sealed with all-welded construction making it suitable for applications where high vibration and extreme conditions are present and can be easily customized.

## Solutions

- 5/8-in. Diameter Package.
- All-Welded, Sealed Construction.
- Harsh/Extreme Environment Ready.
- Wide Operating Pressure Range.

## Potential Applications

- Hydraulic Press Systems.
- Industrial Machinery, Metal Works and Pumps.
- Commercial Hydraulic and Pneumatic Controls.
- Test and Automation Equipment.
- OEM and End-User Applications.

## Features

- **Total Error Band:** ±1.5% of Full Scale Sensitivity.
- **Output:** VDC.
- **Operating Temperature:** -40 °F to +250 °F (-40 °C to +121 °C).
- **Pressure Range:** 0-100 to 0-10,000 PSIA (6 to 698 BAR).
- **Operating Media:** Any compatible with 15-5 PH CRES.
- **Pressure Fitting:** Per AS4395E04, except inner port diameter.

## Specifications

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

## Performance

**Total Error Band:** Includes static error band, temperature effects and input voltage variation. Shall not exceed 1.50% of the Full Scale (Best Straight Line Method).

**Static Error Band:** ± 0.50% Full Scale Output (Best Straight Line Method).

**Output at Zero Pressure:** 0.1 ± 0.1 VDC over compensated temperature range.

**Output at Rated Pressure:** 5.1 ± 0.1 VDC.

## Environmental

**Operating Temperature Range:** -40 °F to +250 °F (-40 °C to +121 °C).

**Calibrated Temperature Range:** -25 °F to +225 °F (-31 °C to +107 °C).

**Pressure Media:** Any compatible with 15-5 PH CRES.

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## Mechanical

**Pressure Range:** Contact factory for additional pressure ranges.

Pressure Table			
Standard Part Number	Pressure Range PSIS (BAR)	Proof Pressure PSIS (BAR)	Burst Pressure PSIS (BAR)
212-75-090-01	0-100 (6)	150 (10)	250 (17)
212-75-090-02	0-500 (34)	750 (51)	1,250 (86)
212-75-090-03	0-1,000 (68)	1,500 (103)	2,500 (172)
212-75-090-04	0-5,000 (344)	7,500 (517)	12,500 (861)
212-75-090-05	0-10,000 (689)	15,000 (1034)	25,000 (1723)

**Pressure Fitting:** Per AS4395E04 except inner diameter.

**Operating Media:** Any compatible with 15-5 PH CRES.

## Electrical

**Input Voltage:** 11 VDC minimum, 40 VDC maximum. Reverse polarity protected (derated over temperature)

**Input Current:** 18 mA maximum.

**Input/Output Isolation:** Not isolated.

**Output Load:** 50k  $\Omega$  minimum, short circuit protected.

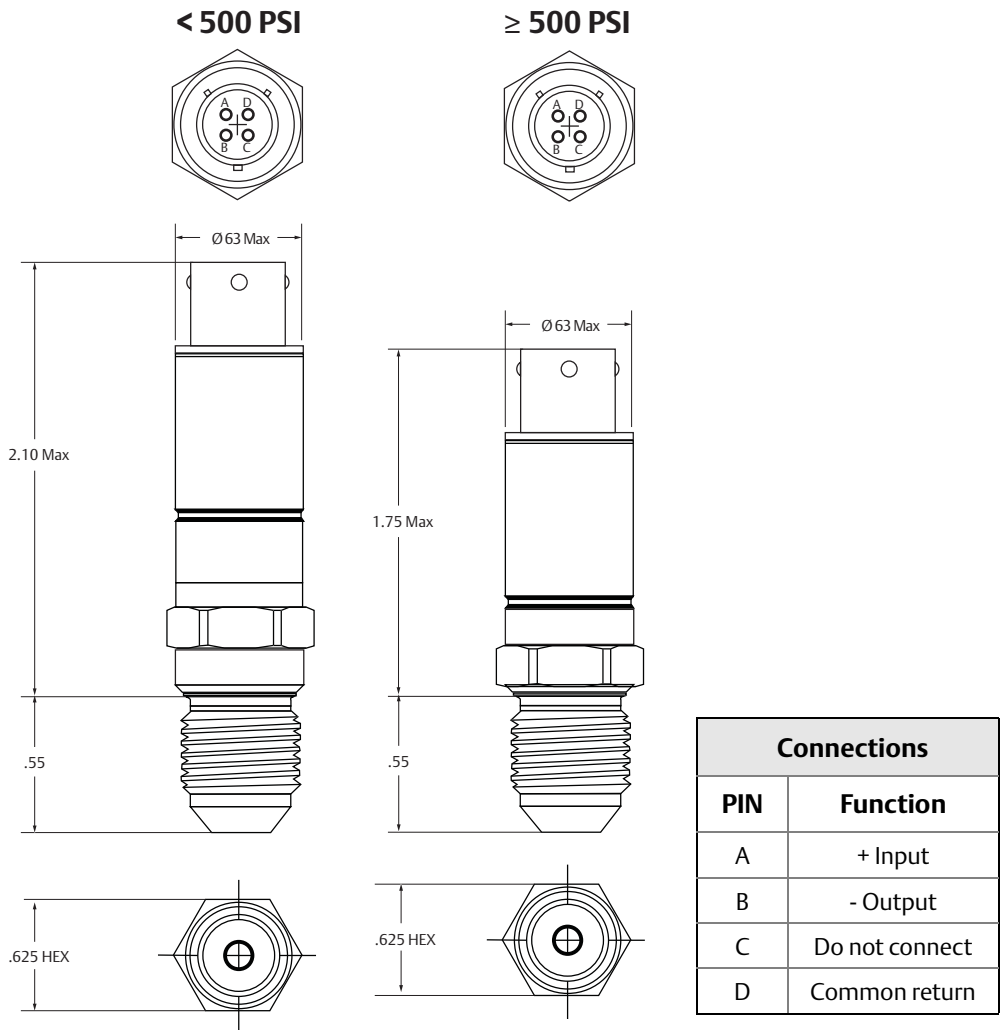
**Output Ripple:**  $\leq 35$  mV peak to peak (typical). 0-1 kHz bandwidth.

**Insulation Resistance:** All conductors together to case, 100M  $\Omega$  minimum at 50 VDC and +77 °F.

**Electrical Connections:** 4 Pin bayonet locking electrical connector. Mates with MS3116-8-4S. (P/N: 247-99-100-01 sold separately).

# Dimensional Drawings

Figure 1. 212-75-090 Series




Dimensions are inches.


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