The Series 682 Industrial Pressure Transmitter is designed to withstand environmental effects such as shock, vibration, temperature, and EMI/RFI. The electronics and capacitive sensor are packaged in a welded stainless steel housing and meets NEMA 4 (IP56) protection ratings. The transmitter features external zero and span adjustments and reverse polarity protection. The Series 682 delivers high performance in tough applications such as off road equipment, hydraulic systems, compressor control, industrial engines, or industrial refrigeration.

### Series 682 Transmitters

- **Model**: 682-1, 682-2, 682-3, 682-4
- **Range**: 0 to 50 psi, 0 to 100 psi, 0 to 250 psi, 0 to 500 psi
- **Overpressure**: 150 psi, 300 psi, 500 psi, 1000 psi
- **Pressure Limit**: 1000 psi
- **Accuracy**: ±0.13% FS Accuracy
- **Stability**: ±0.5% FS/year
- **Output**: 4 to 20 mA, 2-wire
- **Zero & Span Adjustments**: ± 0.5 mA, non-interactive
- **Response Time**: 5 ms
- **Loop Resistance**: 800 Ω
- **Electrical Connections**: 2 ft (51 cm) multiconductor cable
- **Weight**: 8 oz (227 g)
- **Agency Approvals**: CE
- **Vibration**: 20 g, 50-2000 Hz

### Example: 634ES-2-NIST

- **Field**
- **Model**: 634ES-2
- **Range**: 0 to 500 psi
- **Accuracy**: ±0.025% FS°F
- **Thermal Effect**: ±0.025% FS°F
- **Pressure Limit**: 20 to 120°F (-6.67 to 48.9°C)
- **Compensated Temp. Range**: -40 to 125°C 10 to 90% RH, non-condensing
- **Accuracy**: ±0.13% FS (includes non-linearity, hysteresis and non-repeatability)
- **Temperature Limits**: -40 to 260°F (-40 to 125°C) 10 to 90% RH, non-condensing

### Specifications

- **Service**: Compatible liquids and gases.
- **Wetted Parts**: 17-4 PH SS.
- **Accuracy**: ±0.13% FS (includes non-linearity, hysteresis and non-repeatability).
- **Temperature Limits**: -40 to 260°F (-40 to 125°C) 10 to 90% RH, non-condensing.
- **Pressure Limit**: See table.
- **Compensated Temp. Range**: -4 to 178°F (-20 to 80°C).
- **Thermal Effect**: Zero shift: ±1% FS/100°F span shift: ±1.5% FS/100°F.
- **Power Requirements**: 9 to 30 VDC.
- **Output**: 4 to 20 mA, 2-wire.
- **Zero and Span Adjustment**: ± 0.5 mA, non-interactive.
- **Response Time**: 5 ms.
- **Loop Resistance**: 800 Ω.
- **Electrical Connections**: 2 ft (51 cm) multiconductor cable.
- **Process Connection**: 1/4˝ male NPT.
- **Weight**: 8 oz (227 g)
- **Agency Approvals**: CE.
- **Shock**: 200 g operating.
- **Vibration**: 20 g, 50-2000 Hz.

### Series 634ES Transmitters

- **Model**: 634ES-0, 634ES-1, 634ES-2, 634ES-3, 634ES-4, 634ES-5, 634ES-6, 634ES-7, 634ES-8, 634ES-9
- **Range**: 0 to 50 psi, 0 to 100 psi, 0 to 150 psi, 0 to 250 psi, 0 to 500 psi, 0 to 1000 psi, 0 to 1500 psi, 0 to 2500 psi, 0 to 5000 psi
- **Min. Range**: 0 psi, 0 psi, 0 psi, 0 psi, 0 psi, 0 psi, 0 psi, 0 psi, 0 psi
- **Max. Range**: 1000 psi, 1000 psi, 1000 psi, 1000 psi, 1000 psi, 1000 psi, 1000 psi, 1000 psi, 1000 psi
- **Accuracy**: ±0.5% Full Span Accuracy, Ranges to 5000 psi
- **Compensated Temp. Range**: -4 to 176°F (-20 to 80°C).
- **Zero & Span Adjustment**: ± 0.5 mA, non-interactive
- **Response Time**: 5 ms.
- **Loop Resistance**: 800 Ω.
- **Electrical Connections**: 2 ft (51 cm) multiconductor cable.
- **Process Connection**: 1/4˝ male NPT.
- **Weight**: 8 oz (227 g)
- **Agency Approvals**: CE.
- **Shock**: 200 g operating.
- **Vibration**: 20 g, 50-2000 Hz.

### Specifications

- **Service**: Compatible liquids and gases.
- **Wetted Materials**: 17-4 PH SS.
- **Accuracy**: ±0.5% FS.
- **Stability**: ±1% FS/yr.
- **Temperature Limits**: 0 to 140°F (-17.8 to 60°C).
- **Compensated Temperature Limits**: 20 to 120°F (-6.67 to 48.9°C)
- **Pressure Limit**: 1.5x maximum pressure range.
- **Thermal Effect**: ±0.025% FS°F
- **Power Requirements**: 10 to 35 VDC (2-wire).
- **Output Signal**: 4 to 20 mA.
- **Zero & Span Adjustments**: Protected potentiometers located in auxiliary housing.
- **Loop Resistance**: 1250 Ω DC max.
- **Current Consumption**: 38 mA DC max.
- **Electrical Connections**: Terminal block.
- **Process Connection**: 1/4˝ (6.35 mm) female NPT x 1/2˝ (12.7 mm) male NPT.
- **Enclosure Rating**: Designed to meet NEMA 4X (IP66).
- **Mounting Orientation**: Not position sensitive.
- **Weight**: 1 lb 10.6 oz (754 g)
- **Agency Approvals**: CE.

### Example: 634ES-2-NIST

- **Field**
- **Model**: 634ES-2
- **Range**: 0 to 250 psi
- **Accuracy**: ±0.025% FS°F
- **Thermal Effect**: ±0.025% FS°F
- **Pressure Limit**: 20 to 120°F (-6.67 to 48.9°C)
- **Compensated Temp. Range**: 0 to 140°F (+17.8 to 60°C)
- **Zero & Span Adjustment**: ± 0.5 mA, non-interactive
- **Response Time**: 5 ms.
- **Loop Resistance**: 800 Ω
- **Electrical Connections**: 2 ft (51 cm) multiconductor cable
- **Process Connection**: 1/4˝ male NPT
- **Weight**: 8 oz (227 g)
- **Agency Approvals**: CE.
- **Shock**: 200 g operating.
- **Vibration**: 20 g, 50-2000 Hz.