

## NEW! Palmer Pressure Transducers

### Introducing Pressure Transducers from Palmer Instruments.

Measure the pressure of liquids or gases to calculate flow, speed, or level. Pressure transducers generate an electrical signal based on the pressure being exerted, with outputs of 4-20mA, 0-5V and 1-10V. Palmer can manufacture custom configurations for pressure transducers. Please consult the factory with information about your application.

#### PPT300 Series Adjustable Piezoresistive Pressure Transducers



**PPT300** Series high performance pressure transducers from Palmer feature high stability and reliability over long term use. Wide measurement range, and wide range of power supply and output options available. Protection against reversed polarity, with stainless steel construction. Adjustable zero and span, and 20% turn down rate.

**Measurement Range:** 0 to 5000 PSI (0 to 34.5 MPa)  
**Process Connection:** 1/2" NPT  
**Output:** 4-20mA (Other outputs available)  
**Accuracy:** 0.2% Full Scale  
**Compensated Temperature:** 14° to 140°F (-10° to 60°C)  
**Operating Temperature:** -40° to 185°F (-40° to 85°C)  
**Overpressure Limit:** 2.5 times Full Scale

**Response Time:** 10 ms  
**Power Supply:** 12 VDC - 36 VDC  
**Electric Connection:** DINN  
**Cable Length:** N/A

#### Applications PPT300 Series

Aerospace Equipment  
 Food & Beverage Processing  
 Hydraulic Pressure Control  
 Industrial Process Control  
 Water Treatment

#### PPT400 Series Diffuse Silicone Sensor Level Transmitters



**PPT400** Diffused Silicone Sensor Level Transmitter technology for use in oil, water, or mildly corrosive liquids. With stainless steel housings, the PPT400 Series pressure transducers feature high stability and reliability over long term use, and very precise, accuracy of 0.25% Full Scale.

**Measurement Range:** 0 to 200 mH2O  
**Process Connection:** 1/2" NPT  
**Output:** 4-20 mA, 0-5V  
**Accuracy:** 0.25% Full Scale\*  
**Compensated Temperature:** 14° to 140°F (-10° to 60°C)  
**Overpressure Limit:** 2.5 times Full Scale  
**Long Term Stability:** ± 0.2% of Full Scale per year

**Response Time:** 10 ms  
**Power Supply:** 24 VDC  
**Electrical Connection:** Non-polar 2 wire current output  
**Cable Length:** 3 meters standard  
 For lengths over 3 meters please consult factory.

#### PPT500 Series Differential Pressure Transducers / Transmitters



**PPT500** Series Differential Pressure Transducers/Transmitters have two ports for the measurement of two different gas or liquid pressures. Measure pressure drops across filters and other advanced process diagnostics.

**Measurement Range:** 1 to 290 PSI (0.01 to 2 MPa) Gas, 0 to 1450 PSI (0.03 to 10 MPa) Liquid  
**Process Connection:** 1/2" NPT  
**Output:** 4-20 mA, 0-5 V  
**Accuracy Options:** 0.25% Full Scale\*  
**Compensated Temperature:** 14° to 140°F (-10° to 60°C)  
**Operating Temperature:** -40° to 185°F (-40° to 85°C)  
**Overpressure Limit:** 2.5 times Full Scale  
**Long Term Stability:** ± 0.15% of Full Scale per year

**Response Time:** 10 ms  
**Power Supply:** 24 VDC  
**Electrical Connection:** DINN  
**Cable Length:** N/A

We can manufacture custom configurations for Pressure Transducers. Consult Customer Service for more information.

For ordering assistance for all Palmer Pressure Transducers please consult Customer Service at 1-800-421-2853.



\* Including linearity, repeatability and hysteresis

Calibration Services Available

# Palmer Pressure Transducers

## NEW! Palmer Pressure Transducers

### PPT1000 Series Adjustable Ceramic Pressure Transducers



**PPT1000** High accuracy, high stability and reliability over long term use, these transducers have a firm ceramic sensing element, laser calibration at zero point, and full range. They are resistant to corrosion, vibration and shock, and feature a wide operating temperature range, adjustable zero and span, and 20% turn down rate.

**Measurement Range:** 14.5 to 8700 PSI (100 KPa to 60 MPa),

**Process Connection:** 1/2" NPT

**Output:** 4-20 mA (two-wire type), or 0-5, 0-10 VDC (three-wire type)

**Accuracy:** 0.2% Full Scale\*

**Compensated Temperature:** 32° to 158°F (0° to 70°C)

**Operating Temperature:** -40° to 257°F (-40° to 125°C)

**Overpressure Limit:** 1.5 times Full Scale

**Long Term Stability:** < 0.1% Full Scale per year

**Response Time:** 10 ms

**Power Supply:** 24 VDC

**Electric Connection:** D = DINN

**Cable Length:** N/A

#### Applications PPT1000 Series

Chemical Industry  
Environmental Engineering  
Gas Operated Devices  
Hydraulic Pressure  
Process Control

### PPT1100 Series Economy Ceramic Piezoresistive Pressure Transducers:



**PPT1100** Pressure transducers featuring piezoresistive technology. These transducers are often found in engines, air compressors, and air conditioning equipment. Small in size, these transducers fit into tight spots and are light weight. PPT1100 Series features high quality, high stability, low weight, and mass production.

**Measurement Range:** 0 to 725 PSI (0 to 5 MPa)

**Process Connection:** 1/2" NPT

**Output:** 4-20 mA (two-wire type), or 0-5 VDC (three-wire type)

**Overpressure Limit:** 1.5 times Full Scale

**Accuracy:** 1% Full Scale\*

**Compensated Temperature:** 14° to 140°F (-10° to 60°C)

**Operating Temperature:** -40° to 185°F (-40° to 85°C)

**Long Term Stability:** ± 0.15% of Full Scale per year

**IP Rating:** IP67

**Response Time:** < 10 ms (0-99%)

**Power Supply:** 12-28 VDC

**Electric Connection:** PACKARD

**Cable Length:** N/A

### PPT1200 Series Economy Ceramic Piezoresistive Pressure Transducers



**PPT1200** Economical ceramic piezoresistive equipment, available with PACKARD, DINN, and CABLE type electrical connections. German pressure sensing element, high stability, and ceramic construction makes these transducers tough, and able to withstand most pressure spikes. Offered with either voltage or current outputs, they are useful for general needs, refrigeration, HVAC, or Natural Gas applications.

**Measurement Range:** 29 to 8700 PSI (0.2 to 60 MPa)

**Process Connection:** 1/2" NPT

**Overpressure Limit:** 1.5 times Full Scale

**Output:** 4-20 mA, 0-5 V

**Accuracy:** 0.5% Full Scale

**Operating Temperature:** -40° to 185°F (-40° to 85°C)

**IP Rating:** IP67

**Response Time:** 10 ms

**Power Supply:** 24 VDC

**Electrical Connection:** PACKARD, DINN, CABLE

**Cable Length:** 3 meters standard  
For lengths over 3 meters please consult factory.

We can manufacture custom configurations for Pressure Transducers. Consult Customer Service for more information.

#### Applications PPT400, PPT500, PPT1100, & PPT1200 Series

Air Compressors

Air Conditioner

Automatic Detection System

Automotive Engine

Building Water Supply

Compressors

Constant Water Supply

Frequency Water Supply

Hydraulic Control/Unit

Hydraulic Monitoring

HVAC

Natural Gas

Refrigeration

Sewage Treatment

Water Saving Irrigation

Urban Flood Control

For ordering assistance for all Palmer Pressure Transducers please consult Customer Service at 1-800-421-2853.



\* Including linearity, repeatability and hysteresis

Calibration Services Available

**PALMER Wahl**  
INSTRUMENTATION GROUP

Continued Innovation Since 1836  
ISO 9001:2008 CERTIFIED

(800) 421-2853 • FAX (828) 658-0728 • www.palmerwahl.com

PW1133  
12/11