DATAQ 4-20mA Output Pressure Transducers



- ✓ Measure Gauge Pressure from -14.5 to 10000 PSIG
- ✓ Measure Absolute Pressure from 15 to 60 PSIA
- ✓ Made with 316 stainless steel and high temperature auto-grade plastic
- ✓ 4-20mA linear output
- ✓ Accuracy: 0.5% FS
- ✓ Works for oil, fuel, water or air pressure
- ✓ 250 Ohm shunt resistor & mating connector with wire harness (3 ft pigtail) included
- ✓ IP65-66 Rated
- ✓ Select from 1/8-27 NPT or 1/4-18 NPT thread
- ✓ Customization available on ranges, gauge or absolute pressure, sealing material, process connection, and/or supply voltage

DATAQ INSTRUMENTS

4-20mA Output Pressure Transducers

Description

The DATAQ high precision 4-20mA pressure sensor measures up to 10,000 PSI with exceptional accuracy. It's ideal for monitoring oil, fuel, air and water pressure. Compatible with most standard pressure sensor applications, it also integrates seamlessly with data loggers for reliable data storage.

Features

- Measure Gauge Pressure from -14.5 to 10,000 PSIG
- Measure Absolute Pressure from 15 to 60 PSIA
- Made with 316 stainless steel and high temperature auto-grade plastic
- 4-20mA linear output
- 8-30V supply voltage
- Accuracy: 0.5%
- Works for oil, fuel, water or air pressure
- Mating connector and wire harness (pigtail) included
- IP65-66 Rated, RoHS/RoHS3 compliant
- Select from 1/8-27 NPT thread (2000361) or 1/4-18 NPT thread (2000500)
- Customization available on ranges, gauge or absolute pressure, sealing material, process connection, thread size, and/or supply voltage
- Customized sealing material EPDM available for Brake Fluid applications (DOT3/DOT4)

Pressure Transducer Cable

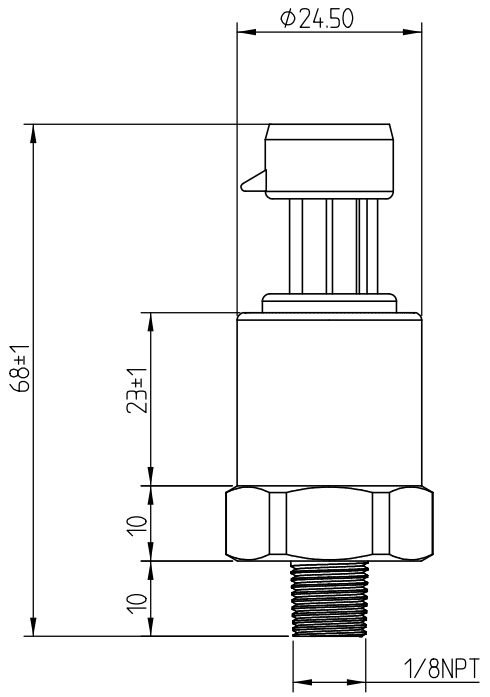


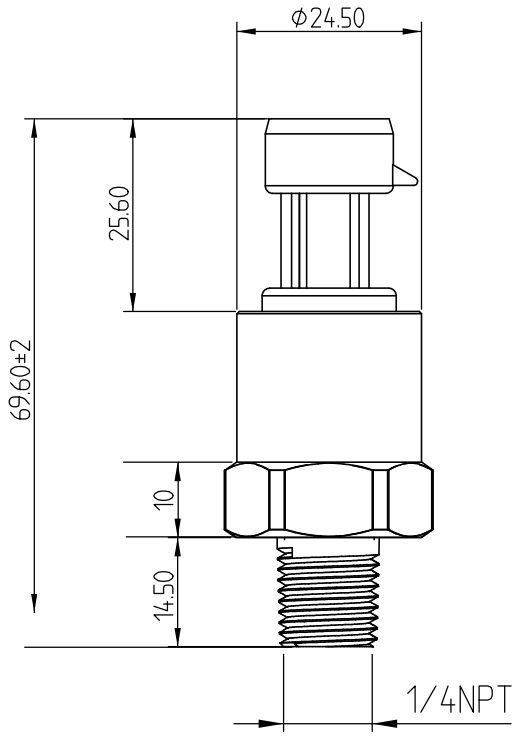
3-Foot Pressure Transducer Cable Included
Part Number: 2000361-PIGTAIL
3-foot long wire harness (pigtail) with mating connector and seal for 2000361/500/600/700 family pressure sensors

10-Foot Pressure Transducer Cable Sold Separately
Part Number: 2000361-PIGTAIL10
10-foot long wire harness (pigtail) with mating connector and seal for 2000361/500/600/700 family pressure sensors

Current (2 Wire)	
Red	Supply V+
Black	Output
Yellow or Green	N/A

Dimensional Drawing





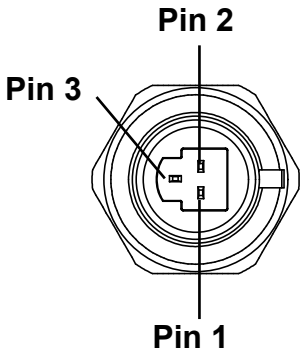
1/8-27 NPT Thread

1/8-27 NPT thread available for all PSI ranges
1/4 NPT pipe fitting available for up to 2000 PSI

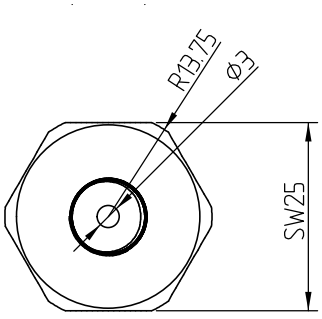
1/4-18 NPT Thread

1/4-18 NPT thread available for all PSI ranges

Top Down Connector View



Current (2 Wire)	
Pin 1:	Supply V+
Pin 2:	Output
Pin 3:	N/A



Specifications

4-20mA Pressure Transducers

Pressure Type:	Gauge pressure available for -14.5 to 10000 PSIG Absolute pressure available for 15 to 60 PSIA Contact DATAQ Sales for absolute pressure on all other ranges
Measurement Range:	-14.5 PSI to 10,000 PSI
Process Media:	Air, Water, Oil, Fuel For other applications, see Customization
Material:	316 stainless steel and high temperature auto-grade plastic
Type of Sensor:	Oil-filled diffused silicon piezoresistive
Thread:	1/8-27 NPT or 1/4-18 NPT

Electrical

Output:	4-20mA linear output
Supply Voltage:	8-30V
Max Power:	25mA
Protection Class:	Typical IP65-66, depending on electric connection

Accuracy & Performance

Accuracy:	±0.5%FS 15-25°C ±1%FS -20 to 70°C * Ranges lower than +5 PSI has 0.5-1% accuracy at room temperature
Burst Pressure:	For transducers of full range up to 1450 PSI, 4 times span For transducers of full range 1500 to 10000 PSI, 17400 PSI
Overload Pressure:	For transducers of full range up to 1450 PSI, 2.5 times span For transducers of full range 1500 to 10000 PSI, 14500 PSI
Long-term stability:	± 0.5%FS/year
Compensation Temperature:	-10°C to 70°C
Ambient Temperature:	-20°C to 85°C
Temperature Effect on Zero:	Typical: ±0.02%FS/ºC Maximum: ±0.05%FS/ºC
Temperature Effect on Sensitivity:	Typical: ±0.02%FS/ºC Maximum: ±0.05%FS/ºC
ADC Response Time:	≤1ms
Insulation Resistance:	>100mΩ 500VDC
Customize Process Connections:	G 1/4, M14x1.5, M12x1.5, 1/4-18NPT
Electromagnetism Compatibility:	EN61326-1:2013 EN61326-2-2:2013 The EMC Directive2014/30/EU

Housing

Housing Material:	Stainless Steel 304, Cu, Al
Sealing Material:	FKM For EPDM and other sealing types, see Customization
Wetted Material:	Stainless Steel 316L

Wiring

Wiring connector:	Water sealed quick-disconnect. Mating connector and wire harness (pigtail) included.
Wiring:	Red for +8-30V Supply Voltage Black for 4-20mA output Yellow: Not connected

Logger inaccuracy not included in these specifications.

Ordering Information

Description	Order No.	
	1/8-27 NPT Thread	**1/4-18 NPT Thread**
-14.5 to 15 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from -14.5 to 15 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-N1515Hx-1	2000500-N1515Hx-1
-14.5 to 30 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from -14.5 to 30 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-N1530Hx-1	2000500-N1530Hx-1
Negative, 0 to -14.5 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter Measure negative pressure from 0 to -14.5 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-N15Hx-1	2000500-N15Hx-1
0-15 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-15 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-15Hx-1	2000500-15Hx-1
0-15 PSIA, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure absolute pressure from 0-15 PSIA, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000600-15Hx-1	2000700-15Hx-1
0-30 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-30 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-30Hx-1	2000500-30Hx-1
0-30 PSIA, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure absolute pressure from 0-30 PSIA, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000600-30Hx-1	2000700-30Hx-1
0 to 50 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-50 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-50Hx-1	2000500-50Hx-1
0 to 60 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-60 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-60Hx-1	2000500-60Hx-1
0 to 60 PSIA, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure absolute pressure from 0-60 PSIA, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000600-60Hx-1	2000700-60Hx-1
0 to 100 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-100 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-100Hx-1	2000500-100Hx-1
0 to 150 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-150 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-150Hx-1	2000500-150Hx-1
0 to 200 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-200 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-200Hx-1	2000500-200Hx-1
0 to 300 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-300 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-300Hx-1	2000500-300Hx-1
0 to 500 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-500 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-500Hx-1	2000500-500Hx-1
0 to 1000 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-1000 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-1000Hx-1	2000500-1000Hx-1
0 to 1500 PSIG, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure gauge pressure from 0-1500 PSIG, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-1500Hx-1	2000500-1500Hx-1

Ordering Information

Description	Order No.	
	1/8-27 NPT Thread	**1/4-18 NPT Thread**
0 to 2000 PSI, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure pressure from 0-2000 PSI, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-2000Hx-1	2000500-2000Hx-1
0-3000 PSI, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure pressure from 0-3000 PSI, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-3000Hx-1	2000500-3000Hx-1
0-5000 PSI, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure pressure from 0-5000 PSI, 4-20mA output, R250 resistor and mating connector with 3 ft pigtail cable included	2000361-5000Hx-1	2000500-5000Hx-1
0 to 10000 PSI, 4-20mA Linear Output High Accuracy Pressure Transmitter/Sensor Measure pressure from 0-10000 PSI, 4-20mA output, R250 resistor & mating connector with 3 ft pigtail cable included. 1/4-18 NPT thread standard for 10000 PSI.	N/A	2000500-10000Hx-1
Customizable High Accuracy Pressure Transducers Customization available on ranges, gauge or absolute pressure, sealing material, process connection, and/or supply voltage	2000361-CH	
High Precision Voltage Pressure Transducers All ranges available for 0.5 – 4.5V linear output, Click here to view full selection of Voltage Pressure Transducers		

Accessories

Description	Order No.
4-20mA Current Loop Shunt Resistor 250 Ω ±0.1% Precision, Metal Film, 1/2W, Axial Resistor Exceptionally low noise; typically 0.10 µV/V Low voltage coefficient to ±5 ppm/V Flame retardant coating. RoHS compliant.	R250
Stainless Steel Reducer Hex Bushing To convert pressure transducer fitting from 1/8 NPT to 1/4 MNPT Max operating pressure: 2000 PSI	2000361-PIPEFITTING
DC/DC Converter for Sensors Allows you to power 5V rating sensor with a battery. Input voltage: DC8-35V, (12V/24V changes to 5V); Output parameter: DC5V 3A, 15W MAX	101087-1
AC/DC Adapter AC Adapter for Sensor Excitation.: AC input: 100V-240V. DC output: 5V 2A. Cable length: 2.95ft. DC plug connector size: 5.5x2.5mm. Includes screw terminal connector.	101099
3-Foot Pressure Transducer Cable 3-foot long wire harness (pigtail) with mating connector and seal	2000361-PIGTAIL
10-Foot Pressure Transducer Cable 10-foot long wire harness (pigtail) with mating connector and seal	2000361-PIGTAIL10

DATAQ INSTRUMENTS

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