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We Measure

PRESSURE TRANSMITTERS



Flow



Pressure



Level



Temperature



Datalogger



Control and
Automation

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PRESSURE TRANSMITTERS

The term piezoresistive is composed by the Greek word "piezo" (meaning squeeze or press) and resist. In piezoresistive sensors, four resistors are placed on a silicon diaphragm in order to measure the result of strain or physical pressure applied upon them. Any perceptible change in resistance is being converted, through a Wheatstone bridge circuit into an output voltage. This is an economic pressure measurement for clear liquids and non aggressive gases and air.

Piezoresistive Pressure Transmitter



ETRANS-P01

Piezoresistive Pressure Transmitter with Ceramic Sensor



ETRANS-PS1

Piezoresistive Pressure Transmitter with Local Display



ETRANS-P02 | ETRANS-P03

Piezoresistive Pressure Transmitter Technical Specifications

Pressure Range	-1...+2000 barg
Accuracy	±0,5% F.S. (<1 barg) ±0,2% F.S. (>1 barg)
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male Thread, Flush, Clamp
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel
Power Supply	10...36 VDC
Output	4...20 mA, 0...10 V, 0,5-4,5 V, 4-20 mA + HART, RS485
Protection Class	IP65

Piezoresistive Pressure Transmitter with Ceramic Sensor Technical Specifications

Pressure Range	-1...+400 barg
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male Thread
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel
Power Supply	10...36 VDC
Output	4...20 mA, 0...10 V
Protection Class	IP65

Piezoresistive Pressure Sensor with Connector Technical Specifications

Pressure Range	-1...+2000 barg
Accuracy	±0,5% F.S. (<1 barg) ±0,2% F.S. (>1 barg)
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male Thread, Flush, Clamp
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel
Power Supply	10...36 VDC
Output	4...20 mA, PNP/NPN Alarm Contact (ETRANS-P03)
Protection Class	IP65
Options	Internal Screen

PRESSURE TRANSMITTERS

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Piezoresistive Pressure Transmitter with Cable



ETTRANS-P04

Piezoresistive Pressure Transmitter with Connector



ETTRANS-P05

Smart Type Pressure Transmitter



ETTRANS-P07 | ETTRANS-P08

Piezoresistive Pressure Transmitter with Cable Technical Specifications

Pressure Range	-1...+2000 barg
Accuracy	±0,5% F.S. (<1 barg) ±0,2% F.S. (>1 barg)
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male Thread, Flush, Clamp
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel /1.4301 (304) Stainless Steel
Power Supply	10...36 VDC
Output	4...20 mA, 0...10 V
Protection Class	IP68
Electrical Connection	Cable

Piezoresistive Pressure Transmitter with Connector Technical Specifications

Pressure Range	-1...+2000 barg
Accuracy	±0,5% F.S. (<1 barg) ±0,2% F.S. (>1 barg)
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male Thread, Flush, Clamp
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel /1.4301 (304) Stainless Steel
Power Supply	10...36 VDC
Output	4...20 mA, 0...10 V
Protection Class	IP67
Electrical Connection	M12 Connector

Smart Type Pressure Transmitter Technical Specifications

Pressure Range	-1...+2000 barg
Accuracy	±0,5% F.S. (<1 barg) ±0,2% F.S. (>1 barg)
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male Thread, Flush, Clamp
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / Aluminum
Power Supply	10...36 VDC
Output	4...20 mA, HART
Protection Class	IP67
Options	LCD Local Display

PRESSURE TRANSMITTERS

The term piezoresistive is composed by the Greek word "piezo" (meaning squeeze or press) and resist. In piezoresistive sensors, four resistors are placed on a silicon diaphragm in order to measure the result of strain or physical pressure applied upon them. Any perceptible change in resistance is being converted, through a Wheatstone bridge circuit into an output voltage. With combination of smart type electronics and local LCD it offers ultra high accurate pressure measurement with the various output options for different applications.

Smart Type Pressure Transmitter with Ex-Proof



ETRANS-P09 / ETRANS-P10

Piezoresistive Pressure Transmitter with Ex-Proof



ETRANS-PX1

Piezoresistive Pressure Transmitter with Ex-Proof Connector



ETRANS-PX5

Smart Type Pressure Transmitter with Ex-Proof Technical Specifications

Pressure Range	-1...+2000 barg
Accuracy	±0,5% F.S. (<1 barg) ±0,2% F.S. (>1 barg)
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male Thread, Flush, Clamp
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / Aluminum
Power Supply	10...36 VDC
Output	4...20 mA, 0...10 V
Protection Class	IP67 ATEX Approved
Options	LCD Local Display

Piezoresistive Pressure Transmitter with Ex-Proof Technical Specifications

Pressure Range	-1...+2000 barg
Accuracy	±0,5% F.S. (<1 barg) ±0,2% F.S. (>1 barg)
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4" , G1/2", 1/4" NPT, 1/2" NPT Male Thread, Flush, Clamp
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel
Power Supply	10...36 VDC
Output	4...20 mA, 0...10 V
Protection Class	IP65
ATEX Class	Zone 0, Zone 1, Zone 2 (II 1G Ex ia IIC T4 Ga)

Piezoresistive Pressure Transmitter with Ex-Proof Connector Technical Specifications

Pressure Range	-1...+2000 barg
Accuracy	±0,5% F.S. (<1 barg) ±0,2% F.S. (>1 barg)
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male Thread, Flush, Clamp
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel
Power Supply	10...36 VDC
Output	4...20 mA, 0...10 V
Protection Class	IP67
ATEX Class	Zone 0, Zone 1, Zone 2 (II 1G Ex ia IIC T4 Ga)

PRESSURE TRANSMITTERS

The term piezoresistive is composed by the Greek word "piezo" (meaning squeeze or press) and resist. In piezoresistive sensors, four resistors are placed on a silicon diaphragm in order to measure the result of strain or physical pressure applied upon them. Any perceptible change in resistance is being converted, through a Wheatstone bridge circuit into an output voltage. This is an economic pressure measurement for clear liquids and non aggressive gases and air.

Differential Pressure Transmitter



ETTRANS-DP01

Differential Pressure Transmitter with Contact Output Indicator



ETTRANS-DP02 | ETTRANS-DP03

Smart Type Differential Pressure Transmitter



ETTRANS-DP08

Differential Pressure Transmitter Technical Specifications

Pressure Range	-35...+35 barg
Accuracy	±0,5% F.S. (<1 barg) ±0,2% F.S. (>1 barg)
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4", G1/2" Male Thread
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel
Power Supply	10...36 VDC
Output	4...20 mA, 0...10 V
Protection Class	IP65

Differential Pressure Transmitter with Contact Output Indicator Technical Specifications

Pressure Range	-35...+35 barg
Accuracy	±0,5% F.S. (<1 barg) ±0,2% F.S. (>1 barg)
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	G1/4", G1/2" Male Thread
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel
Power Supply	10...36 VDC
Output	4...20 mA, PNP/NPN Alarm Contact (ETTRANS-P03)
Protection Class	IP65
Options	Internal Screen

Smart Type Differential Pressure Transmitter Technical Specifications

Pressure Range	-1...+160 barg
Accuracy	±0,2% Full Scale
Process Temperature	-40... +80°C (Standard) -40...+250°C (Optional)
Process Connection	1/4" NPT Female Thread
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / Aluminum
Power Supply	10...36 VDC
Output	4...20 mA (HART Optional)
Protection Class	IP67
ATEX Sinifi	II 2G Ex db IIC T6 Gb