

P043 Piezoresistive Pressure Transmitter



Introduction

EYC P043 pressure transmitter use SUS304 housing and piezoresistive diaphragm sensor type which is SUS316L sensor materail, so that the housing is comapct and rugged and the measurement system is particularly resistant to mechanical shock and vibration. EYC P043 have high accuracy and nicer long-term stability, it fits in general industry.

Feature

- Piezoresistive diaphragm sensor type
- SUS304 housing, SUS316L sensor material
- Compact and rugged design and easy to install
- With reasonable price, high accuracy and nicer long-term stability

Applications

- Measuring pressure for liquid and gas
- For research and development, laboratory, and processing engineering
- Factory construction / Instrument manufacturing / Machine devices / Water plant / Air devices, etc



Specification

Input	
Sensor Type	Piezoresistive diaphragm
Measuring Range	Absolute pressure: 010 bar
	Relative pressure: 040 bar
Overpressure	1.5 x F.S.

Output

Output	4 20 mA
Signal Connection	2-wire
Load Resistance (Current Output)	\leq (Working voltage - 10 V) / 0.02A Ω
Output Calibration (ZERO & SPAN)	± 10 % of zero-point and full-scale
Response Time (10 90 %)	≦ 5 ms

Temperature Influence (at 35 °C)

Zero-Point Error	± 1.0 % of F.S.
Measuring Range Error	± 1.0 % of F.S.

Accuracy

Accuracy	± 0.3 % of F.S.
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Environment

Media Measured	Liquid / Gas (provide coating)
Temp. of Media Measured	0 + 70 ℃
Ambient Temperature	0 + 60 ℃
Ambient Humidity	< 0 100 %RH (non-cond.)
Storage Temperature	-40 + 70 ℃

Electric

Power Supply	10 30 VDC
Current Consumption	≦ 27 mA
Overvoltage Protection	< 33 VDC
Electric Connection	DIN 43650 ABS plug;
	M12 - 4 PIN metal connector

Installation

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Protection

Protection Rating	DIN 43650 : IP65 ;
	M12 - 4 PIN metal connector: IP67
Electric Protection	Polarity protection Over-voltage
	Short-circuit
Shock Effect	10g RMS · 20 Hz 2000 Hz

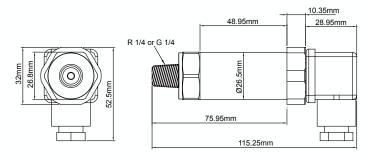
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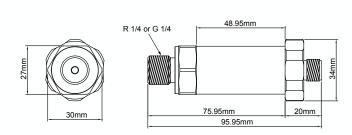
Material

Housing	SUS 304
Wetted Parts	SUS 304
Sensor	SUS 316L
Sealing Material	NBR
Weight	179 g

Dimension



DIN 43650 ABS plug



G 1/4" Outside thread + M12 Connector



Ordering Guide

Item	P043	_	1	21	1	2	0	1	
Pressure Type	Absolute pressure Relative pressure		0 1						
Pressure Range	Absolute pressure : 1 bar 2 bar 4 bar 6 bar 10 bar			11 12 14 16 21					
	Relative pressure: 1 bar 2.5 bar 4 bar 6 bar 10 bar 16 bar 25 bar 40 bar			11 13 14 16 21 22 25 40					
Output	4 20 mA				1				
Connect Thread	G 1/4" Outside thread PT 1/4" Outside thread					1 2			
Power Supply	10 30 VDC						0		
Connector	DIN 43650 ABS plug M12 x 1 Connector							1 2	
Option	Option Pressure Range								W

Diagram

