

EYD-31 series

Pressure Transmitters



Description

EYD31 pressure transmitter adopts a piezoresistive pressure sensor. Piezoresistive sensor is a kind of pressure sensor. Piezoresistive pressure sensors are also called diffused silicon pressure sensors. Piezoresistive pressure transmitter, the sensor signal is converted into a standard signal output after the signal processing circuit. The product has been rigorously screened by long-term aging and stability assessment, and its performance is stable and reliable. It is applied to the open-air site with relatively harsh environment, and it is required to be able to observe the pressure display on-site, and the occasions that require zero migration and range adjustment.

Features

- DigitalASIC, accuracy and stability
- Drift affect small
- Excellent long-term stability
- High overloading
- Excellent anti-jamming capability
- Overvoltage overcurrent protection, reverse polarity protection

Application

- Compressor and water pump
- Constant pressure or building water supply
- Engineering or industrial process control and monitor machinery
- Environmental protection in Steel industry
- Medical or agricultural testing machinery
- Flow measure equipment
- Hydraulic and pneumatic control system
- Internal combustion engine, locomotive brake system, test stand

Specifications

Technical indicators:	
Media:	Oil, water, gas and compatible with 316L stainless steel
Pressure:	-0.1MPa ~ 0 ~ 100MPa
Overload:	2 times (10MPa or less); 1.5 times (10MPa or more)
Accuracy:	± 0.1% FS , ± 0.2% FS , ± 0.5% FS, ± 1% FS
Nonlinear:	<± 0.2% FS
Hysteresis and repeatability:	≤ ± 0.1% FS
Long-term stability:	≤ ± 0.1% FS / year
Zero drift:	≤ ± 0.02% FS / °C
Response time:	≤500ms (standard)

Electrical parameters:

Output:	Current 2-wire: 4 ~ 20mA Voltage 3-wire : 0 ~ 5V; 0 ~ 10V; 1 ~ 5V; 1 ~ 10V Option:RS 485 ,hart
Supply voltage:	DC24V (12 ~ 32VDC, less may contact)
Load capacity:	current output: ≤ 500Ω
Voltage output:	≤ 250Ω output impedance
Electrical connection:	Standard for Hersman, optional direct outlet or M20 PIN Aviation

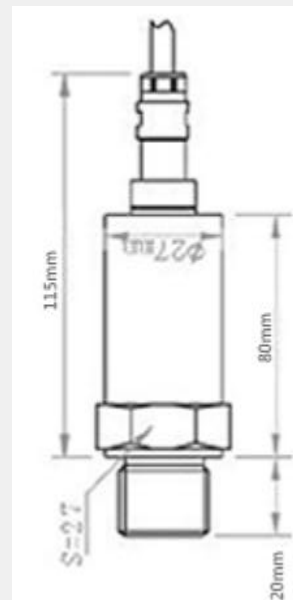
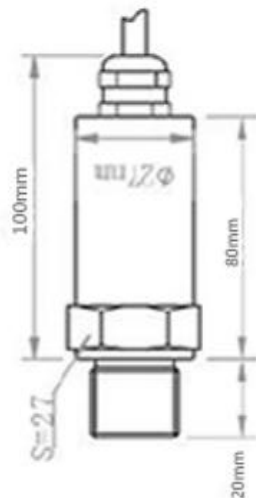
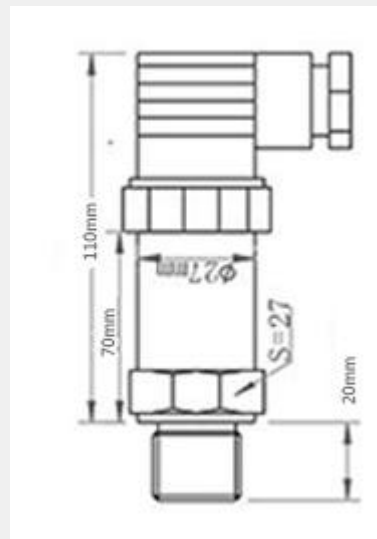
Materials:

Wetted parts:	316L stainless steel
Shell:	304
Seals:	Viton, optional: EPDM, NBR
Diaphragm:	316L stainless steel

Other specifications:

Process connection:	M20 × 1.5 external thread (standard) (optional otherconnections)
Material:	316L stainless steel wetted materials; Shell: 304
Protection class:	IP 65
Medium temperature:	-30 ~ 80 °C
Ambient temperature:	-40 ~ 80 °C
Storage temperature:	-40 ~ 100 °C
Earthquake:	108 RMS (25 ~ 2000HZ)
Current Limit:	The maximum current-24mA; voltage-largest 5mA
Certification:	CE

Dimensions



Product model

Model	EYD-31						
Range	K:0...X kPa; P: PSI; K: kPa,; B: bar; M:MPa; m: mH2O						
Precision	1: 0.25%FS 2: 0.5%FS; 3: 0.1						
Output	A: 4-20mA V1: 0.5-4.5V; V2: 0-5V; V3: 1-5V; V4: 0-10V; ; S0: Other						
Power	P1: 9-32VDC; P2:5VDC ; P3: 12-32VDC; P4: 3VDC; P0: others						
Interface	G1: G1 / 4; R1:R1/4 M0:customized						
Connection	W1:Hirschman W2:Directly wire W3:M12 plug						
EYD-31	100P	1	A	P1	G1	W1	Vendor Code

Selection tips:

1. The tested medium should be compatible with the materials in contact with the product.
2. For other special requirements, please consult us and indicate what you need in the orders.