

Gauge Pressure Field-Mounted Transmitter PEK401HA

With HART Protocol



Application Area

ield mounted Gauge pressure transmitter PT401HA with HART- protocol for converting pressure into a scalable 4 to 20 mA analogue output signal.

Input Types

This Transmitter uses gauge pressure sensor as input analogue signal.

- High Performance and Accuracy in total ambient pressure and Temperature range
- Digital Communication and Universal configuration with HART protocol communicator 475 Rosemount
- Self-diagnostics function ensures long-term performance and lower cost of ownership
- High Resolution LCD display
- 2-wire technology, Loop-powered 4-20mA temperature Transmitter analogue output with HART protocol
- Wide voltage supply ranges from 9V DC without load up to 15V DC with 250 Ω load
- Extremely high overload limit and High temperature and long-term stability
- No hysteresis and Corrosion-resistant

Technical Data

Power Supply	
Supply Voltage	12 ~ 36V DC
Communication resistance for HART Protocol	Тур. 250 Ω
Output	7.
Output Signal	4 to 20 mA with HART Protocol
Signal on Alarm	Under Range 3.8 mA
	Over Range 22.8 mA
Load	Max. 23mA
Transmission Behavior	Loop Current Linear in Input Range
Pressure Ranges	
Nominal	±250mbar ,±400mbar ,±2Bar ,±30Bar
Over pressure	Minimum 1.3 Nominal Range
Performance Characteristic	
Accuracy	0.1 % Full Scale
Noise suppression fornoise frequency	50/60 Hz
Update time	< 0.5 sec
Response Time	<= 700 ms
Switch on Delay	< 5 sec
Influence of Ambient	Negligible
Load Influence	Negligible
Power Supply Influence	Negligible
Resolution	1μΑ
Insulation resistance	>250MΩ
Intrinsic safety	Eex ia IIC T4
Short-Circuit protection	Permanent
Electromagnetic Compatibility (EMC) standards	
Electromagnetic Compatibility (EMC) standards	IEC/EN 61326-1: 2006 IEC/EN 61326-2-3: 2006
EMC	Compliance with IEC 61000-4-3
Expiosion Proof	EXia/Eexd IIC T6
Vibration Effect	10 to 60 Hz : 0.21 mm peak Displacement 60 to 500 Hz : 3g
Operating Temperature	Without LCD: -40°C to +85°C With LCD: -20°C to 60°C
Relative humidity	0% to 95%
Protection rating	IP65
(Enclosure)	
Others	
Display Type	5 digits
Weight	Approx. 3,720 gr (AL) / 4,900 gr (SS316)
Display Range	-19999 ~ 19999
Enclosure Materials	PEK002 Aluminum die cast or SS316

Data Sheet PEK401HA

Electrical Connection of Sensors

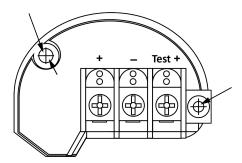
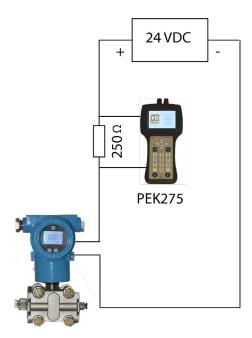


Diagram of connectors

Connection	Description
+	HART Network Connector (without polarization)
-	HART Network Connector (without polarization)
	Communicator
Test+	Communicator

Electrical Field Connection Diagram

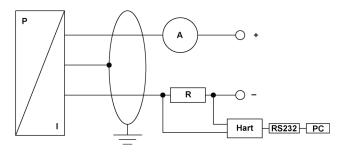


Electrical Field Connection Diagram

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Wiring Diagram

Wiring Diagram



Wiring Diagram

