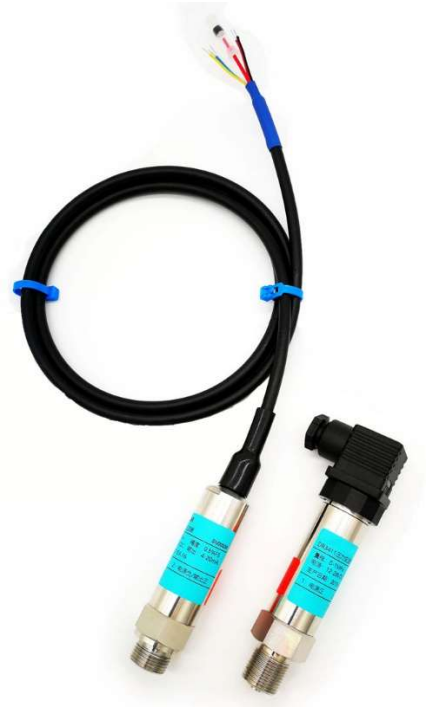
DR3401 Industrial Pressure Transmitter



Product Overview

The DR3401 series universal pressure transmitter is a piezoresistive pressure transmitter with adjustable zero and full-scale output. It uses a highly stable and reliable pressure sensor combined with a dedicated high-performance transmitter circuit, offering excellent versatility, stable performance, and long-term reliability.

Key Features

- Reliable performance and easy installation
- Short-circuit and reverse polarity protection
- On-site zero/span adjustment
- Optional LCD display
- Supports gauge, absolute, and sealed gauge pressure
- EMC compliant: EN61000-6-2:2005 and EN61000-6-4:2007+A1:2011

Technical Specifications

Parameter	Specification
Pressure Range	-0.1 MPa to 100 MPa
Overload	2 × full scale or 110 MPa (whichever is lower)
Pressure Type	Gauge / Absolute / Sealed Gauge
Supply Voltage	11–28V DC (current), 12–28V DC (voltage)
Output Signal	4–20mA DC (2-wire) / 1–5V DC (3-wire)
Accuracy	±0.25% FS typical, ±0.5% FS max
Operating Temperature	-30°C to +70°C
Compensation Temperature	0°C to +50°C
Protection Rating	IP65 plug type / IP68 cable type
Housing Material	SS304
Sensor Diaphragm	SS316L

Electrical Connections

Pin definitions are as follows：

Pin	3-wire	2-wire
1	+V	+V
2	GND	+OUT
3	+OUT	null

The electric definitions of cable are as follow：

Cable	3-wire	2-wire
Red	+V	+V
Black	+OUT	+OUT
White	GND	null

Ordering Guide

Model Description

DR3401 General Pressure Transmitter

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1) Pressure Range

Item	Description
Range	-0.1MPa…0MPa ~ 0.01MPa…100MPa
Format	[0~X] kPa / MPa
Note	X = Actual measuring range

Example:
[0~1]MPa = 0 to 1 MPa

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2) Accuracy

Code	Accuracy
A1	0.5%FS
A2	0.2%FS
A3	0.1%FS

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3) Output Signal

Code	Output Signal
E	4–20mA DC (2-wire)
V	1–5V DC (3-wire)

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4) Construction Material

Code	Diaphragm	Pressure Connection	Housing
M1	SS316L	SS304	SS304
M2	SS316L	SS316L	SS316L

5) Additional Functions / Process Connection

Code	Description
B1	4-pin Plug Connection
B2	Cable Output
C1	M20×1.5 Male Thread, Face Seal
C2	M20×1.5 Male Thread, Waterline Seal
C3	G1/2 Male Thread
C4	G1/4 Male Thread
C5	G1/4 Female Thread
D1	LCD Display
D2	LED Display
G	Gauge Pressure
A	Absolute Pressure
S	Sealed Gauge Pressure

6) Model Ordering Example

Example Model	Description
DR3401-[0~100]kPa-A3-E-M1-B1C5G	Complete model code

7) Code Structure Explanation

DR3401 - [Range] -[Accuracy] - [Output] - [Material] - [Options]

Example:

DR3401-[0~100]kPa-A3-E-M1-B1C5G

Meaning:

- **DR3401 = Model**
- **[0~100]kPa = Pressure range**
- **A3 = 0.5%FS**
- **E = 4–20mA output**
- **M1 = SS316L diaphragm + SS304 housing**
- **B1 = Plug connection**
- **C5 = G1/4 female thread**
- **G = Gauge pressure**