

RST216- PRESSURE TRANSMITTER WITH LED DISPLAY

APPLICATIONS

- Defense Industry
- Scientific Research
- Space Industry
- Petroleum
- Chemical Industry
- Electric Power
- Ocean and Other Fields



FEATURES

- Pressure range: 0-10mbar to 0-100 bar
- Measuring Element: No medium liquid
- High accuracy, stable capability, little temp- draft
- Excellent Linearity
- Wide Temperature Range
- Corrosion Proof

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INTRODUCTION

Adopting Global Advanced Electron Ceramic Technology, LED display with low range has the character of overload resistance, high impact resistance, excellent linearity, lasting high stability, wide temperature range, corrosion proof, etc. The pressure range of the transmitter is 0-10 m Bar to 0-100 Bar.

PRINCIPLE OF OPERATION

The pressure transducer converts the mechanical measured variable of pressure into an electrical measuring signal. The Piezo-resistive pressure transducer is designed so that the pressure to be measured is applied to a thin membrane made of mono silicon. The membrane is deflected by the applied pressure. The semiconductor resistors on the membrane detect this mechanical deflection and generate an electrical output signal. The arrangement of the resistors simultaneously compensates for the temperature response. The signal of the pressure transducer is converted into the output signal by high-gain operation amplifiers. The electrical output

Signal changes within the specified error limits proportionally to the applied pressure.

TECHNICAL SPECIFICATION

Pressure Range: 0-10 m Bar to 0-100 Bar

Accuracy: $\pm 0.25\%$ / $\pm 0.1\%$ of F.S.

Non-Linearity: 0.2% of F.S.

Reliability: 0.05% of F.S.

Output: 4 – 20mA (2 wire)

Input: 12-36 V DC (Amplify Signal)

Operating Temperature: -40 ~ +80 deg C

Compensated Temperature Range: 0-70 deg C

Over Pressure: 150% of F.S

Medium Material: Stainless Steel

Electric Connection: Hirschman (DIN), M12 & 4 PIN, Bendix Connector, Cable, etc., (Customer Design)

Process Connection: G 1/4'', G 1/2'', 1/2'' NPT, 1/4'' NPT, M12*1.5 (Customer Design)

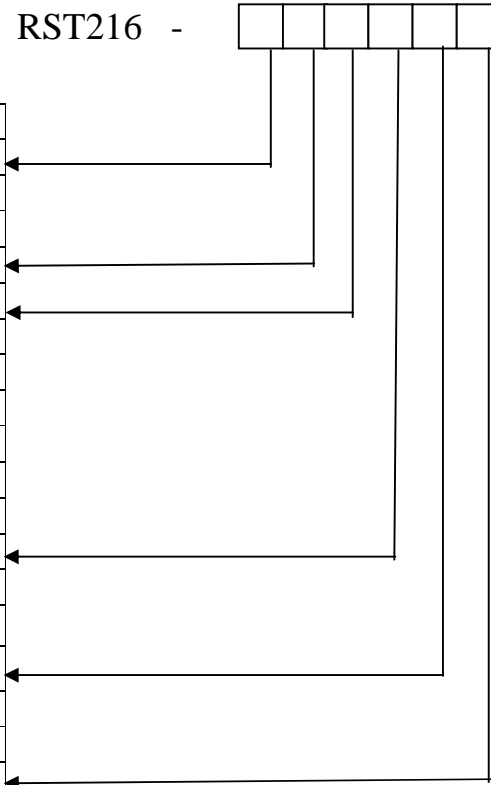


ORDERING INFORMATION

RST216 -

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Code	Features
A	Pressure
A	Absolute
G	Sealed Gauge
B	Pressure Range
CD	Connection
1U	1/8''NPT
2U	1/4''NPT
3U	1/2''NPT
1V	G 1/8''
2V	G 1/4''
1M	M20X1.5
E	Conduit
C	Cable Gland (std. 1M)
D	DIN 43650A
F	Accuracy
1	0.1%FS
2	0.25%FS
F	Output
1	0.5 to 4.5V (Four Wire)
2	1 to 5V (Four Wire)
3	0 to 10V (Four Wire)
4	0.5 to 10.5V (Four Wire)
5	4 to 20mA (Two Wire)



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