

ESPP-MIT1

Medium Isolated
Strain Gauge Pressure Transmitters



ES Systems has developed a series of pressure sensor transmitters featuring very good accuracy at low cost. Each module is based on all welded hermetically sealed structure in a single stainless-steel piece. The ESPP-MIT1 is a medium isolated pressure sensor suitable for gas or fluid pressure measurements in harsh environments.

The output is fully calibrated and temperature compensated based on the internal temperature sensor and the factory calibration coefficients which are stored in the embedded memory. Thus, the transducer is ready to be installed directly to the end user system without further processing.

ESPP-MIT1 comes with a variety of electrical interfaces output signal types and process interfaces. It is one of the most cost-effective solutions especially when high volumes are required.



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ESPP-MIT1

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Strain Gauge Pressure Transmitters



Specifications

Pressure Type	Gauge
Pressure Range	Up to 1000bar
Power Supply	+8V ... +28V
Total Error	< ±1.0 %FS
Operating Temperature	-40°C ... +125°C
Compensation Temperature	-10°C ... +80°C
Output	Calibrated Pressure
Output Interface	4-20mA, 0.5-4.5V, 1-5V, 0-5V
Overpressure Tolerance	Up to 5x
Media Compatibility	Gases, Liquids
Material	Stainless Steel 17- 4PH
Connection Type	M12, ISO4400, Cable, Packard
Process Interface	See table below
Dimensions	Height: 66.5 mm diameter Ø 23.5 mm

Ordering Information

ESPP-MIT1 – NNNNNN – NN – NN – NN

Pressure Range	Full Scale	Process Interface
0007BG	7 bar	01 1/2" NPT male
0010BG	10 bar	02 1/4" NPT male
0016BG	16 bar	03 G1/2" male
0030BG	30 bar	04 G1/4" male
0050BG	50 bar	05 1/8" NPT male
0100BG	100 bar	06 G1/8" male
0150BG	150 bar	07 G3/8" male
0250BG	250 bar	08 1/4" NPT female
0300BG	300 bar	09 1/8" NPT female
0350BG	350 bar	10 G1/4" female
0400BG	400 bar	11 R1/4" male
0600BG	600 bar	12 7/15-20 UNF-2B
0800BG	800 bar	13 M12x1 male
1000BG	1000 bar	14 M14x1.5 male
		15 M20x1.5 male
Output Type	Connector	
01 4-20 mA	01 M12	
02 0.5-4.5 V	02 ISO4400	
03 1-5 V	03 Cable (0.5m)	
04 0-5 V	04 Packard	



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