

Model EPT1000 series

OEM Pressure Transmitter
Stainless steel pressure sensor
Mass production, automated calibration

Materontek
Sensing and Internet of Things



Features

- ❑ Measuring ranges from 200mbar to 100bar
- ❑ Gauge pressure
- ❑ Accuracy: $\pm 0.5\%$ FSO(Typ.)
- ❑ Calibrated and temperature compensated
- ❑ Stainless steel pressure sensor
- ❑ Output 4...20mA, DC1...5V, DC 0.5...4.5V

Application

- ❑ Hydraulic and pneumatic
- ❑ Machine building
- ❑ Pumps
- ❑ Water treatment
- ❑ IoT pressure measurement

Technical data

Pressure range

Nominal pressure [bar]	0.2	0.35	0.6	1	1.6	2.5	4	6	10	16	20	25	35	50	70	100
Overpressure [bar]	0.4	0.5	1	1.5	3	5	7	10	15	30	30	40	50	70	100	140

Performance

Accuracy*	0.5 %FS@25°C	*Linearity (best straight line) + Hysteresis + Repeatability
Operating Temperature	-20 to 85°C	
Compensated Temperature Range	-10 to 70°C	
Vibration	20 g RMS(20 to 2000Hz)	
Shock	100 g(10ms)	
Cycles	10×10^5	
Long Term Stability	0.2 %FS	

Electrical @25°C

Output signal / Supply	2-wire 4...20mA / $V_S = 9... 30VDC$
	3-wire 1...5VDC / $V_S = 9... 30VDC$
	3-wire 0.5...4.5VDC / $V_S = 9... 30VDC$
Insulation Resistance	100 M Ω @100VDC
EMC Test	IEC61000-6-2/IEC61000-6-3
Reverse polarity protection	No damage - no function

Physical Specifications

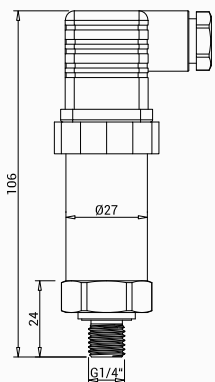
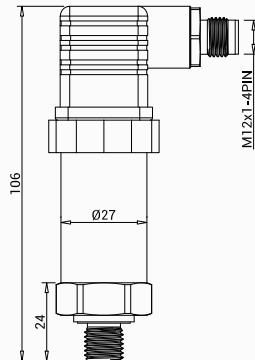
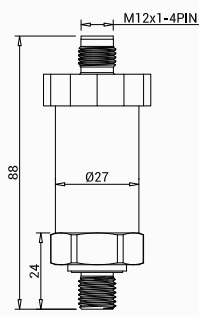
Housing	304 stainless steel
Diaphragm	316L stainless steel
Oil Filling	Silicone oil
Protection	IP65
Weight	~200g

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Dimensions (All dimensions in mm)

Code E1 DIN175301-803A/DIN43650/IP65	Code E2 DIN175301-803A with Circular connector M12x1(4-pin)/IP65	Code E3 DIN175301-803A with Circular connector M12x1(4-pin)/IP65
		

Electrical connections

DIN175301-803-A	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire	Circular connector M12x1(4-pin)	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire
+Vcc	1	1	1	+Vcc	1	1	1
OUT	2	3	3	OUT	3	4	4
GND	NA	2	2	GND	NA	3	3

Ordering code

Part Number: EPT1000-02G42G4E1

Model	Range	Type	Output	Pressure Port	Electrical Connection
EPT1000	01 0.2bar	G Gauge	42 4...20mA	G4 G1/4"male	E1 DIN175301-803A
	02 0.35bar		15 DC1...5V	G2 G1/2"male	E2 DIN175301-803A with M12 connector
	03 0.6bar		05 DC0.5...4.5V	M2 M20x1.5male	E2 M12 connector
	04 1bar				
	05 1.6bar				
	06 2.5bar				
	07 4bar				
	08 6bar				
	09 10bar				
	10 16bar				
	11 20bar				
	12 25bar				
	13 35bar				
	14 50bar				
	15 70bar				
	16 100bar				