

Model EPT1130 series

OEM Pressure Transmitter
Ceramic pressure sensor
For Aggressive Media Applications

Materontek
Sensing and Internet of Things

Features

- ❑ Measuring ranges from 200mbar to 50bar
- ❑ Gauge pressure
- ❑ Accuracy: $\pm 0.25\%$ FSO(Typ.)
- ❑ Pressure port PVDF/PP
- ❑ Ceramic pressure sensor
- ❑ Output 4...20mA, DC1...5V, DC0.5...4.5V, etc.



Application

- ❑ Mechanical and plant engineering
- ❑ Chemical industry
- ❑ Mechanical and plant engineering

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		
Overpressure [bar]	0.4	0.5	1	1.5	3	5	7	10	15	30	30	35	40	60		

Performance

Accuracy*	0.25 %FS@25°C(Typ.) 0.5 %FS@25°C(Max.)	*Linearity (best straight line) + Hysteresis + Repeatability
Operating Temperature	0 to 60°C	
Compensated Temperature Range	0 to 60°C	
Vibration	20 g RMS(20 to 2000Hz)	
Shock	100 g(10ms)	
Cycles	10x10 ⁵	
Long Term Stability	0.3 %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 MΩ@100VDC
EMC Test	IEC61000-6-2/IEC61000-6-3
Reverse polarity protection	No damage – no function

Physical Specifications

Pressure port material	PVDF/PP
Diaphragm	Ceramic (96% Al ₂ O ₃)
Oil Filling	NA
Protection	IP65
Weight	~200g

The listed specifications and dimensions are subject to change without prior notice

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Dimensions (All dimensions in mm)

Code E1 DIN175301-803A/DIN43650/IP65	Code E2 Circular connector M12x1(4-pin)/IP66	Code E3 Cable outlet, 1.5m/IP66

Electrical connections

DIN175301-803-A	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire	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

Model	Range	Type	Output	Pressure Port	Pressure port material	Electrical Connection
EPT1130	01 0.2bar	G Gauge	42 4...20mA	01 G1/4 male	M1 PVDF	E1 DIN175301-803A/IP65
	02 0.35bar	A Absolute	15 DC 1...5V	02 G1/2 male	M2 PP	E2 M12 connector/IP66
	03 0.6bar		05 DC 0...5V	03 1/4NPT male	M3 PTFE	E3 Cable outlet, 1.5m/IP66
	04 1bar		45 DC 0.5...4.5V	04 1/2NPT male		
	05 1.6bar		10 DC 0...10V	05 PT1/4 male		
	06 2.5bar		25 DC 0...2.5V	06 PT1/2 male		
	07 4bar		R4 RS485	07 M20x1.5 male		
	08 6bar		H1 HART	99 Custom		
	09 10bar					
	10 16bar					
	11 20bar					
	12 25bar					
	13 35bar					
	14 50bar					
	15 -0.1...+0.1bar					
	16 -0.2...+0.2bar					
	17 -1...0bar					
	18 -1...9bar					
	19 -1...16bar					
	20 -1...30bar					
	99 Custom					