

Model EPT1140 series

OEM Pressure Transmitter
Ceramic pressure sensor
For refrigeration and air-conditioning applications

Materontek
Sensing and Internet of Things

Features

- ❑ Measuring ranges from 2bar to 200bar
- ❑ Gauge pressure
- ❑ Accuracy: $\pm 0.5\% \text{FSO}(\text{Typ.})$, $\pm 1.0\% \text{FSO}(\text{Max.})$
- ❑ Calibrated and temperature compensated
- ❑ Ceramic pressure sensor
- ❑ Output 4...20mA, DC0...5V, DC0.5...4.5V

Application

- ❑ HVAC controls
- ❑ Refrigeration
- ❑ Air compressors



Technical data

Performance

Accuracy*	0.5%FS@25°C(Typ.), 1.0%FS@25°C(Max.)	*Linearity (best straight line) +
Operating Temperature Range	-20 to 85°C	
Compensated Temperature Range	0 to 70°C	
Vibration	20 g RMS(20 to 2000Hz)	
Shock	50 g(10ms)	
Cycles	10x10 ⁵	
Long Term Stability	0.25 %FS	

Electrical @25°C

Output signal / Supply	2-wire	4...20mA / V _S = 10...30VDC
	3-wire	0...5VDC / V _S = 10...30VDC
	3-wire	0.5...4.5VDC / V _S = 5VDC
Insulation Resistance	100 MΩ@100VDC	
EMC Test	IEC61000-6-2/IEC61000-6-3	
Reverse polarity protection	No damage – no function	

Physical Specifications

Housing	304 stainless steel
Diaphragm	Ceramic(96% Al ₂ O ₃)
Sealing	O-ring
Oil Filling	No
Protection	IP65
Weight	~50g(without cable)

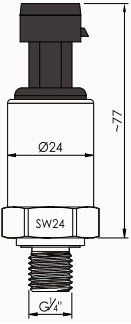
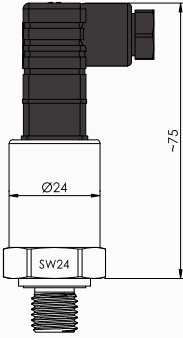
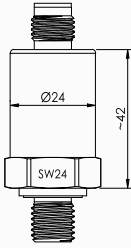
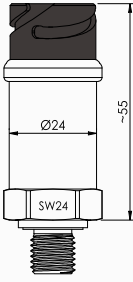
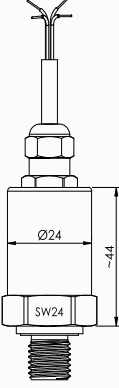
The listed specifications and dimensions are subject to change without prior notice

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Dimensions (All dimensions in mm)

Code E1 Packard/IP65	Code E2 mini-DIN43650/IP65	Code E3 Connector M12x1(4-pin)
		
Code E4 DIN72585-4 /IP65	Code E5 Cable outlet 1.5m/IP66	
		

Electrical connections

Packard Connector	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire
+Vcc	A	A	A
OUT	B	C	C
GND	-	B	B

Connector M12x1(4-pin)	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire
+Vcc	1	1	1
OUT	3	4	4
GND	-	3	3

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Standard pressure range

Code	Pressure [bar]	Gauge	Overload
01	0...2	✓	150%FS
02	0...4	✓	150%FS
03	0...5	✓	150%FS
04	0...6	✓	150%FS
05	0...10	✓	150%FS
06	0...16	✓	150%FS
07	0...25	✓	150%FS
08	0...30	✓	150%FS
09	0...40	✓	150%FS
10	0...50	✓	150%FS
11	0...100	✓	150%FS
12	0...160	✓	120%FS
13	0...200	✓	120%FS
14	-1...9	✓	150%FS
15	-1...16	✓	150%FS

Ordering code

Model	Range	Type	Output/Power supply	Pressure Port	Electrical Connection
EPT1140	code	G Gauge	42 4...20mA/10...30VDC	01 G¼ male	E1 Packard/IP65
			15 DC 1...5V/10...30VDC	02 G½ male	E2 mini-DIN43650/IP65
			05 DC 0...5V/10...30VDC	03 ¼NPT male	E3 Connector M12x1(4-pin)
			45 DC 0.5...4.5V/5VDC	04 G¼ female	E4 DIN72585-4 /IP65
				05 7/16-20UNF female	E5 Cable outlet 1.5m/IP66
				06 M20x1.5 male	
				07 PT ¼ male	
				99 Custom	

Accuracy	Label
A1 0.5%FS	S Standard
A2 1.0%FS(Standard)	N Neutral packing
A3 1.5%FS	C Custom label