

# 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:  $\pm 0.25\%$ FSO(Typ.)
- ❑ Calibrated and temperature compensated
- ❑ Stainless steel pressure sensor
- ❑ Output 4...20mA, DC1...5V, DC0.5...4.5V, etc.



## 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*	0.25 %FS@25°C(Typ.) 0.5 %FS@25°C(Max.)	*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	10x10 <sup>5</sup>	
Long Term Stability	0.2 %FS	

### Electrical @25°C

Output signal / Supply	2-wire 4...20mA / V <sub>S</sub> = 9... 30VDC
	3-wire 1...5VDC / V <sub>S</sub> = 9... 30VDC
	3-wire 0.5...4.5VDC / V <sub>S</sub> = 9... 30VDC
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	316L stainless steel
Oil Filling	Silicone oil
Protection	IP65
Weight	~200g

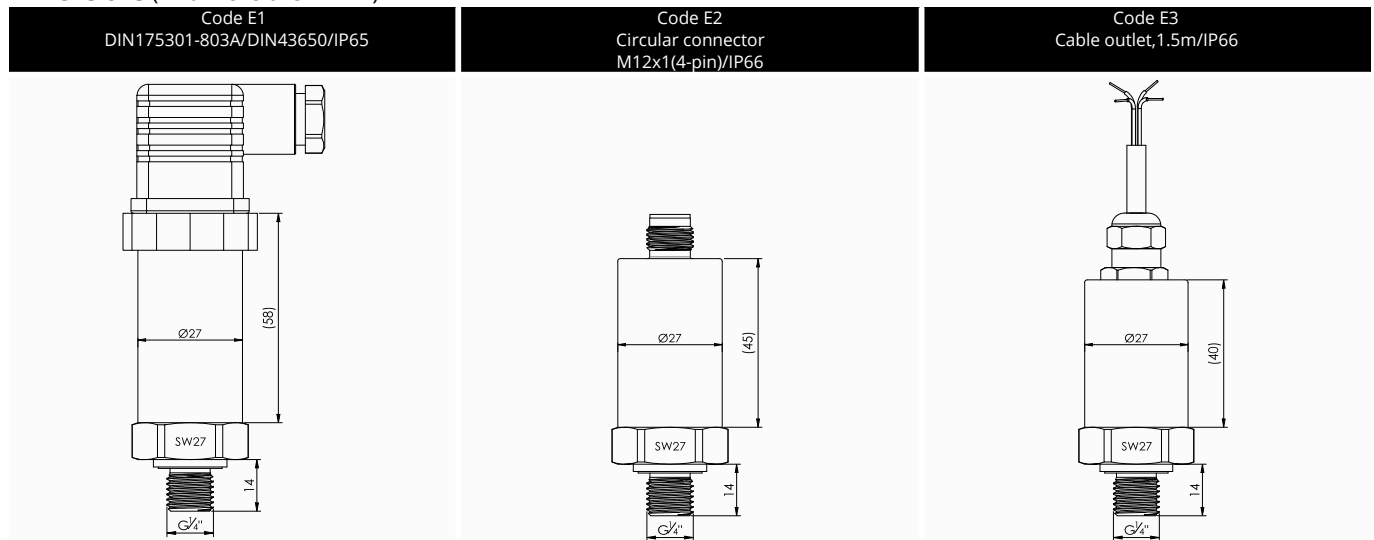
The listed specifications and dimensions are subject to change without prior notice

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## Dimensions (All dimensions in mm)



## Electrical connections

DIN175301-803-A	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire
+Vcc	1	1	1
OUT	2	3	3
GND	NA	2	2

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	NA	3	3

## Ordering code

Model	Range	Type	Output	Pressure Port	Electrical Connection
EPT1000	01 0.2bar	G Gauge	42 4...20mA	01 G $\frac{1}{4}$ male	E1 DIN175301-803A/IP65
	02 0.35bar	A Absolute	15 DC 1...5V	02 G $\frac{1}{2}$ male	E2 M12 connector/IP66
	03 0.6bar		05 DC 0...5V	03 $\frac{1}{4}$ NPT male	E3 Cable outlet, 1.5m/IP66
	04 1bar		45 DC 0.5...4.5V	04 $\frac{1}{2}$ NPT male	
	05 1.6bar		10 DC 0...10V	05 PT $\frac{1}{4}$ male	
	06 2.5bar		25 DC 0...2.5V	06 PT $\frac{1}{2}$ male	
	07 4bar			07 M20x1.5 male	
	08 6bar			99 Custom	
	09 10bar				
	10 16bar				
	11 20bar				
	12 25bar				
	13 35bar				
	14 50bar				
	15 70bar				
	16 100bar				
	17 -0.1...+0.1bar				
	18 -0.2...+0.2bar				
	19 -1...0bar				
	20 -1...9bar				
	21 -1...16bar				
	22 -1...30bar				
	99 Custom				