

Model EPT1160 series

OEM Pressure Transmitter
Mono-Block stainless steel pressure sensor
For machinery industry

Materontek
Sensing and Internet of Things

Features

- ❑ Measuring ranges from 5bar to 2000bar
- ❑ Gauge pressure
- ❑ Accuracy:±0.25%FSO(Typ.)
- ❑ Calibrated and temperature compensated
- ❑ Stainless steel pressure sensor
- ❑ Mono-Block stainless steel pressure sensor and no O-ring seal
- ❑ Diameter Ø19mm
- ❑ Output 4...20mA,DC1...5V,DC0.5...4.5V



Application

- ❑ Hydraulic and pneumatic
- ❑ Machine building
- ❑ Engineering machine
- ❑ Machine tools
- ❑ Process control systems

Technical data

Performance

Accuracy*	0.25%FS@25°C(Typ.) 0.5%FS@25°C(Max.)	*Linearity (best straight line) + Hysteresis + Repeatability
Operating Temperature Range	-40 to 105°C	
Compensated Temperature Range	-20 to 85°C	
Vibration	20 g RMS(20 to 2000Hz)	
Shock	20 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	1...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

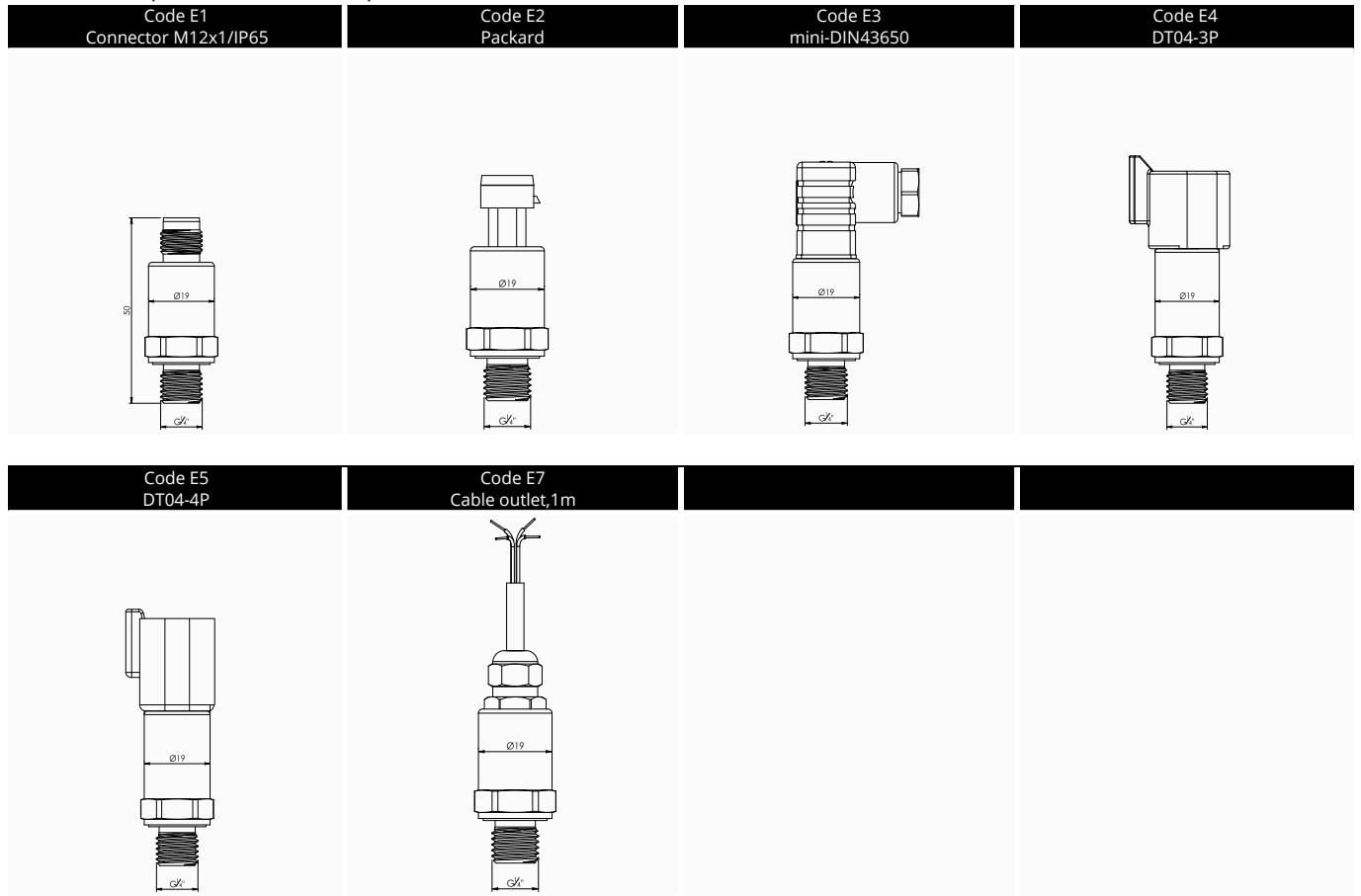
Housing	304 stainless steel
Diaphragm	17-4PH stainless steel
Sealing	No O-ring
Oil Filling	No
Protection	IP65
Weight	~100g(without cable)

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

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Dimensions (All dimensions in mm)



Electrical connections

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

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Standard pressure range

Code	Pressure [bar]	Gauge	Overload	Burst pressure
01	0...5	✓	200%FS	10xFS
02	0...10	✓	200%FS	10xFS
03	0...10	✓	200%FS	10xFS
04	0...16	✓	200%FS	10xFS
05	0...25	✓	200%FS	10xFS
06	0...40	✓	200%FS	10xFS
07	0...60	✓	200%FS	10xFS
08	0...100	✓	200%FS	10xFS
09	0...160	✓	200%FS	5xFS
10	0...250	✓	150%FS	5xFS
11	0...400	✓	120%FS	5xFS

Code	Pressure [bar]	Gauge	Overload	Burst pressure
12	0...600	✓	200%FS	3xFS
13	0...700	✓	150%FS	3xFS
14	0...1000	✓	150%FS	3xFS
15	0...1200	✓	150%FS	3xFS
16	0...1400	✓	120%FS	2xFS
17	0...1600	✓	120%FS	2xFS
18	0...1800	✓	120%FS	2xFS
19	0...2000	✓	120%FS	1.5xFS

Ordering code

Model	Range	Type	Output/Power supply	Pressure Port	Electrical Connection			
EPT1160	Code	G Gauge	42	4...20mA/12...30VDC	01	G¼ male	E1	Connector M12x1(4-pin)
			15	DC 1...5V/12...30VDC	02	G½ male	E2	Packard
			05	DC 0...5V/12...30VDC	03	¼NPT male	E3	mini-DIN43650
			45	DC 0.5...4.5V/5VDC	04	½NPT male	E4	DT04-3P
					05	R¼ male	E5	DT04-4P
					06	7/16-20UNF male	E6	AMP
					07	M12x1.5 male	E7	Cable outlet,1m
				99	Custom			

Accuracy	Label
A1 0.25%FS	S Standard
A2 0.5%FS(Standard)	N Neutral packing
A3 1.0%FS	C Custom label