Model EPT2000 series

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

Materontek
Sensing and Internet of Things

Features

- Measuring ranges from 100mbar to 600bar
- Gauge pressure, Absolute pressure
- Accuracy: ±0.1%FSO(Min.), ±0.25%FSO(Typ.)
- Calibrated and temperature compensated
- Stainless steel pressure sensor
- Output 4...20mA,RS485,HART and others

Application

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

Technical data

Performance

*Accuracy**	0.1%FS@25°C(Min.) 0.25%FS@25°C(Typ.)	*Linearity (best straight line) + Hysteresis + Repeatability
Operating Temperature	-20 to 85°C	
Compensated Temperature Range	-10 to 70°C	
Temp. coeff - Zero	±0.75[Typ.], ±1.5[Max.]	
Temp. coeff - Span	±0.75[Typ.], ±1.5[Max.]	
Vibration	20 g RMS(20 to 2000Hz)	
Shock	100 g(10ms)	
Cycles	$10x10^5$	
Long Term Stability	0.2 %FS	

Electrical @25°C

Output signal / Supply	2-wire 4...20mA / V_S = 12...30VDC
	2-wire 4...20mA+HART / V_S = 12... 30VDC
	4-wire RS485 Modbus RTU / V_S = 12... 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
Sealing	NBR or Viton O-ring
Oil Filling	Silicone oil
Protection	IP65
Weight	~500g(without cable)

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

VOLLTEL MEASUREMENT TECHNOLOGY
Lianhu District, xian 710075
+86 029 8133 7841
info@volltel-meas.com

MATERONTEK TECHNOLOGY
High-tech Industry Park,
No 9. xian 710071 China
factory@materontek.com

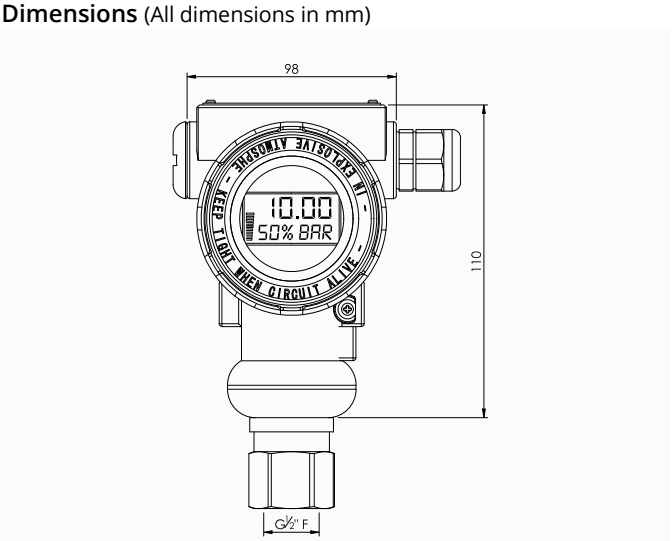
© 2019 MATERONTEK TECHNOLOGY

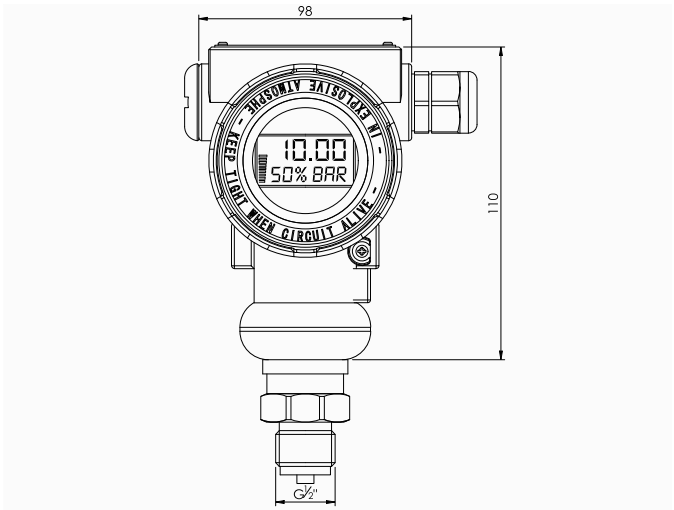
Model EPT2000 series

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

Materontek
Sensing and Internet of Things

Dimensions (All dimensions in mm)





Standard pressure range

Code	Nominal pressure [bar]	Gauge	Sealed gauge	Absolute
01	0...0.1	√		
02	0...0.2	√		
03	0...0.35	√		√
04	0...0.7	√		√
05	0...1	√		√
06	0...1.6	√		√
07	0...2.5	√		√
08	0...4	√		√
09	0...6	√		√
10	0...10	√		√
11	0...16	√	√	√
12	0...25	√	√	√
13	0...40		√	
14	0...60		√	
15	0...100		√	
16	0...160		√	
17	0...250		√	
18	0...400		√	

Code	Nominal pressure [bar]	Gauge	Sealed gauge	Absolute
19	0...600		√	
20	-0.1...+0.1	√		
21	-0.2...+0.2	√		
22	-0.5...+0.5	√		
23	-1...0	√		
24	0...-1	√		
25	-1...+1	√		
26	-1...+1.6	√		
27	-1...+2.5	√		
28	-1...+4	√		
29	-1...+6	√		
30	-1...+9	√		
31	-1...+10	√		
32	-1...+16	√		
33	-1...+25	√		
34	0.8...2	√		√

Ordering code

Model	Range	Type	Output/Power supply	Pressure Port	Medium temperature
EPT2000	**code**	**G** Gauge	**42** 4...20mA/12...30VDC	**01** G¼ male	**E1** -20 to +85°C
		A Absolute	**R4** RS485 Modbus RTU/12... 30VDC	**02** G½ male	**E2** -20 to +100°C
			HR 4...20mA+HART /12... 30VDC	**03** ¼NPT male	**E3** -20 to +150°C
				04 ½NPT male	
				05 PT¼ male	
				06 PT½ male	
				07 M20x1.5 male	
				99 Custom	

Accuracy	Display	Electrical Connection	Label
A1 0.1%FS	**1** LCD display	**M** M20x1.5	**S** Standard
A2 0.25%FS(Standard)	**2** LED display	**N** 1/2"NPT	**N** Neutral packing
A3 0.5%FS	**0** Without display		**C** Custom label

VOLLTEL MEASUREMENT TECHNOLOGY
Lianhu District, xian 710075
+86 029 8133 7841
info@volltel-meas.com

MATERONTEK TECHNOLOGY
High-tech Industry Park,
No 9. xian 710071 China
factory@materontek.com

© 2019 MATERONTEK TECHNOLOGY