

Model PM20T series

OEM Pressure Transmitter
Stainless steel pressure sensor
For high temperature application

VOLLTEL
Sensing and Internet of Things

Features

- ▣ Measuring ranges from 100mbar to 600bar
- ▣ Gauge pressure, Absolute pressure
- ▣ Accuracy: $\pm 0.5\%$ FSO(Typ.)
- ▣ Calibrated and temperature compensated
- ▣ Stainless steel pressure sensor
- ▣ Medium temperature: 0 to 150°C
- ▣ Output 4...20mA, DC1...5V, DC0.5...4.5V, RS485, etc.



Application

- ▣ Hydraulic and pneumatic
- ▣ Machine building
- ▣ Steam and heat exchange
- ▣ Water treatment
- ▣ IoT pressure measurement

Technical data

Performance

Accuracy*	0.5%FS@25°C(Typ.)	*Linearity (best straight line) + Hysteresis + Repeatability
Medium Temperature	0 to 150°C, 0 to 200°C	
Compensated Temperature Range	-10 to 70°C	
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
	3-wire	1...5VDC / V _S = 12...30VDC
	3-wire	0.5...4.5VDC / V _S = 5VDC
	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	~250g(without cable)

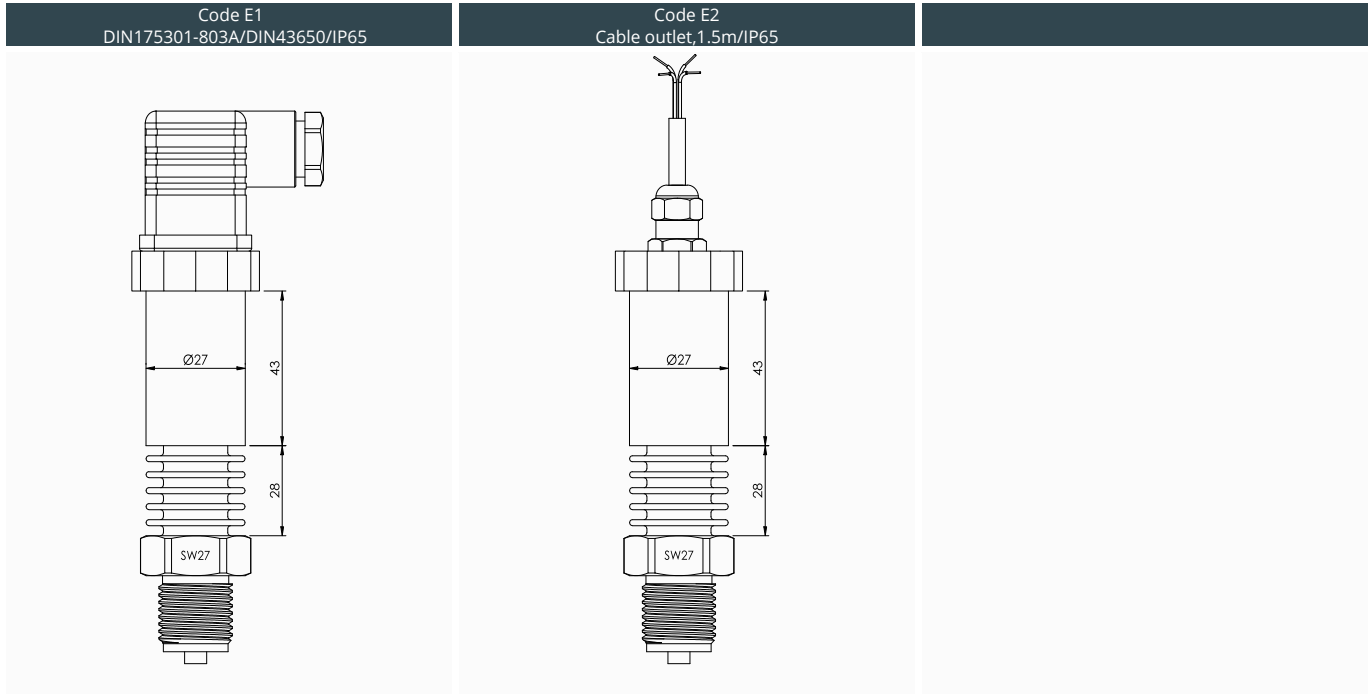
The listed specifications and dimensions are subject to change without prior notice

Model PM20T series

OEM Pressure Transmitter
Stainless steel pressure sensor
For high temperature application

VOLLTEL
Sensing and Internet of Things

Dimensions (All dimensions in mm)



Electrical connections

DIN175301 -803-A	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire	RS485 4-wire
+Vcc	1	1	1	1
OUT	2	3	3	-
GND	-	2	2	2
RS485A	-	-	-	3
RS485B	-	-	-	⊕

Connector M12x1(4-pin)	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire	RS485 4-wire
+Vcc	1	1	1	1
OUT	3	4	4	-
GND	-	3	3	3
RS485A	-	-	-	2
RS485B	-	-	-	4

Model PM20T series

OEM Pressure Transmitter
Stainless steel pressure sensor
For high temperature application

VOLLTEL
Sensing and Internet of Things

Standard pressure range

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

Code	Pressure [bar]	Gauge	Sealed gauge	Absolute
17	0...600		✓	
18	-0.1...+0.1	✓		
19	-0.2...+0.2	✓		
20	-0.5...+0.5	✓		
21	-1...0	✓		
22	0...-1	✓		
23	-1...+1	✓		
24	-1...+1.6	✓		
25	-1...+2.5	✓		
26	-1...+4	✓		
27	-1...+6	✓		
28	-1...+9	✓		
29	-1...+10	✓		
30	-1...+16	✓		
31	-1...+25	✓		
32	0.8...2	✓		✓

Ordering code

Model	Range	Type	Output/Power supply	Pressure Port	Electrical Connection
PM20T	code	G Gauge	42 4...20mA/12...30VDC	01 G¼ male	E1 DIN175301-803A/IP65
		A Absolute	15 DC 1...5V/12...30VDC	02 G½ male	E2 Cable outlet,1.5m/IP65
			05 DC 0...5V/12...30VDC	03 ¼NPT male	E3 M12 connector/IP66
			45 DC 0.5...4.5V/5VDC	04 ½NPT male	
			10 DC 0...10V/15...30VDC	05 PT¼ male	
			25 DC 0...2.5V/5VDC	06 PT½ male	
			R4 RS485 Modbus RTU/12... 30VDC	07 M20x1.5 male	
			HR 4...20mA+HART /12... 30VDC	99 Custom	

Accuracy	Medium Temperature	Label
A1 0.25%FS	T1 0 to 150°C	S Standard
A2 0.5%FS(Standard)	T2 0 to 200°C	N Neutral packing
A3 1.0%FS		C Custom label