

Model PM20C series

OEM Pressure Transmitter
Ceramic pressure sensor
Mass production, automated calibration

VOLLTEL
Sensing and Internet of Things

Features

- ▣ Measuring ranges from 0.5bar to 200bar
- ▣ Gauge pressure, Absolute pressure
- ▣ Accuracy: $\pm 0.5\%$ FSO(Typ.)
- ▣ Calibrated and temperature compensated
- ▣ Stainless steel pressure sensor
- ▣ Output 4...20mA, DC1...5V, DC0.5...4.5V, RS485, I²C etc.

Application

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



Technical data

Performance

Accuracy*	0.5%FS@25°C(Typ.)	*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 ⁵	
Long Term Stability	±0.3 %FS(Typ.), ±0.5 %FS(max.)	

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
	4-wire I ² C / V _S = 3.3...5VDC
	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	Ceramic
Sealing	NBR or Viton O-ring
Oil Filling	NA
Protection	IP65/IP66/IP68
Weight	~200g(without cable)

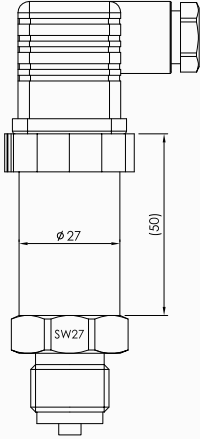
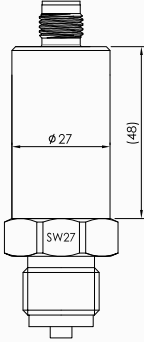
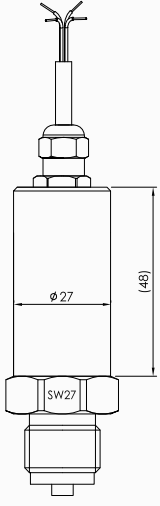
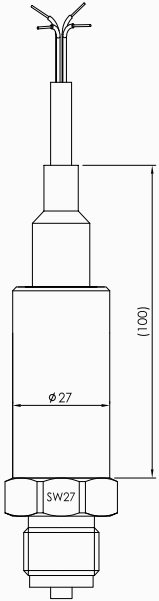
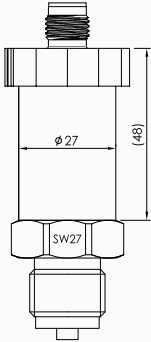
The listed specifications and dimensions are subject to change without prior notice

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Dimensions (All dimensions in mm)

Code E1 DIN175301-803A/DIN43650/IP65	Code E2 Circular connector M12x1(4-pin)/IP66	Code E3 Cable outlet, 1.5m/IP67
		
Code E4 Cable outlet, 1.5m/IP68	Code E5 DIN43650 with Circular connector M12x1(4-pin)/IP65	
		

Electrical connections

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

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Standard pressure range

Code	Nominal pressure [bar]	Gauge	Sealed gauge	Absolute
01	0...0.5	✓		
02	0...1	✓		
03	0...2	✓		
04	0...4	✓		
05	0...5	✓		
06	0...10	✓		
07	0...16	✓		
08	0...20	✓		
09	0...25	✓		
10	0...40	✓		
11	0...50	✓		
12	0...60	✓		
13	0...100	✓		
14	0...160	✓		
15	0...200	✓		
16	-1...9	✓		
17	-1...10	✓		
18	-1...16	✓		

Ordering code

Model	Range	Type	Output/Power supply	Pressure Port	Electrical Connection
PM20C	code	G Gauge	42 4...20mA/9...30VDC	01 G¼ male	E1 DIN175301-803A/IP65
			15 DC 1...5V/9...30VDC	02 G½ male	E2 M12 connector/IP66
			05 DC 0...5V/9...30VDC	03 ¼NPT male	E3 Cable outlet, 1.5m/IP67
			45 DC 0.5...4.5V/5VDC	04 ½NPT male	E4 Cable outlet, 1.5m/IP68
			10 DC 0...10V/15...30VDC	05 PT¼ male	E5 DIN43650-M12 connector/IP65
			25 DC 0...2.5V/5VDC	06 PT½ male	
			R4 RS485 Modbus RTU/12... 30VDC	07 M20x1.5 male	
			IC I²C /3.3... 5VDC	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