PRESSURE TRANSMITTER
PM300 series

Features

- Measuring ranges from 100mbar to 100bar
- Gauge pressure, Absolute pressure
- Accuracy: ±0.25% of F.S.(Typ.), ±0.5% of F.S.(Max.)
- Calibrated and temperature compensated
- Stainless steel flush diaphragm
- Output 4...20mA, 1...5VDC, 0.5...4.5VDC, RS485 etc.

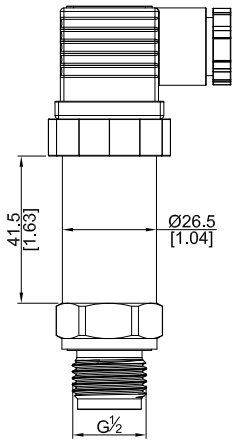


Technical data

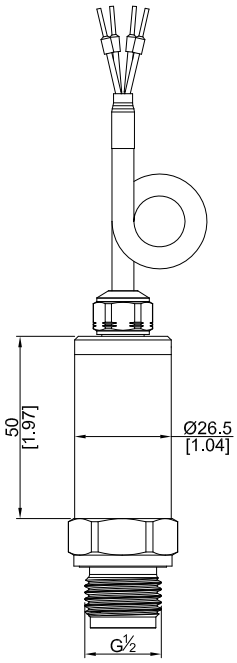
Performance	
Accuracy	±0.25% of F.S.@25°C (Typ.); ±0.5% of F.S.@25°C (Max.) Linearity (best straight line) + Hysteresis + Repeatability
Operating Temperature Range	-20 to 85°C Higher temperatures available with integrated cooling fins
Compensated Temperature Range	0 to 70°C
Temp. Coeff – Zero/Span	±0.75% of F.S. (Typ.), ±1.5% of F.S. (Max.)
Overpressure	150% of F.S.
Vibration	20g RMS (20 to 2000Hz)
Shock	100g (11ms)
Cycles	$10x10^5$
Long Term Stability	±0.3% of F.S.
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...5VDC / V_S = 10...30VDC
	3-wire 0...10VDC / V_S = 12...30VDC
	3-wire 0.5...4.5VDC / V_S = 8...30VDC
	3-wire 0.5...4.5VDC ratiometric / V_S = 5V±0.1VDC
	3-wire 0.5...2.5VDC / V_S = 3.3V±0.1VDC
	3-wire 0.5...2.5VDC / V_S = 5V±0.1VDC
	4-wire RS485 Modbus RTU / V_S = 12... 30VDC
	4-wire I^2C / V_S = 3.3...5VDC
Insulation Resistance	100MΩ@100VDC
EMC Test	IEC61000-4-2 / IEC61000-4-3
Reverse polarity protection	No damage – no function
Physical Specifications	
Housing	stainless steel 304 (standard) / stainless steel 316(option)
Diaphragm	stainless steel 316L
Oil Filling	Silicone oil

Dimensions in mm [in]

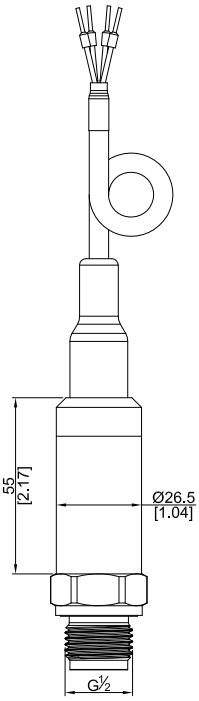
Code: D
DIN175301-803A / DIN43650 / IP65



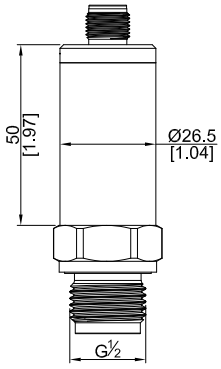
Code: C
Cable outlet,1.5M / IP67



Code: C1
Cable outlet,1.5M / IP68



Code: M
Circular connector M12x1(4-pin) / IP66



Accessory: cable with circular connector M12x1(4-pin)
PVC cable or PUR cable / 2 meters or 5 meters

Straight Type

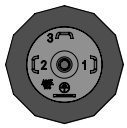


Angled Type

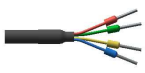


＊RS485 output: Length of housing increases by 20mm

Electrical connections

DIN175301-803A / DIN43650		4...20mA	0…10VDC 0…5VDC 0.5…4.5VDC	RS485
		2-wire	3-wire	4-wire
	+Vcc	1	1	1
	OUT	2	3	–
	GND	–	2	2
	RS485A	–	–	3
	RS485B	–	–	⏚

Circular connector M12x1(4-pin)		4...20mA 2-wire	0…10VDC 0…5VDC 0.5…4.5VDC	RS485
		2-wire	3-wire	4-wire
	+Vcc	1	1	1
	OUT	3	4	–
	GND	–	3	3
	RS485A	–	–	2
	RS485B	–	–	4

Cable outlet		4...20mA	0…10VDC 0…5VDC 0.5…4.5VDC	RS485
		2-wire	3-wire	4-wire
	+Vcc	Red	Red	Red
	OUT	Green / Black	Yellow	-
	GND	-	Green	Green
	RS485A	-	-	Yellow
	RS485B	-	-	Blue

Ordering code

(1) Model	(2) Range					
PM300	N001	-1…0bar	0010	0…1bar	0250	0…25bar
	C001	-1…+1bar	0016	0…1.6bar	0400	0…40bar
	C002	-1…+2bar	0025	0…2.5bar	0600	0…60bar
	0001	0…0.1bar	0040	0…4bar	1000	0…100bar
	0002	0…0.2bar	0060	0…6bar	*Other ranges can be customized.	
	0003	0…0.3bar	0100	0…10bar	*The pressure unit can be selected from kg/cm^2, psi, MPa, kPa, etc.	
	0006	0…0.6bar	0160	0…16bar		

(3) Pressure Type	
G	Gauge Pressure
A	Absolute Pressure

(4) Output			
42	4…20mA / V_S=10...30VDC	45R	DC 0.5…4.5V ratiometric / V_S=5±0.1VDC
15	DC 1…5V / V_S=10...30VDC	25	DC 0.5…2.5V / V_S=5±0.1VDC
05	DC 0…5V / V_S=10...30VDC	25S	DC 0.5…2.5V / V_S=3.3±0.1VDC
10	DC 0…10V / V_S=12...30VDC	RS485	RS485 Modbus RTU / 12... 30VDC
45	DC 0.5…4.5V / V_S=8...30VDC	IC	I^{2}C / V_S = 3.3...5VDC

(5) Accuracy	
02	±0.25% of F.S.
05	±0.5% of F.S.

(6) Electrical connection			
D	DIN175301-803A / DIN43650	C	Cable outlet, 1.5M / IP67
M	Circular connector M12x1(4-pin)	C1	Cable outlet, 1.5M / IP68
DP9	With Digital Display DP-9: circular connector M12x1(5-pin)		
DP7	With Digital Display DP-7: RS485 / DIN43650		

(7) Pressure Port					
G2	G1/2” male	N2	1/2”NPT male	XX	Custom
G6	G3/4” male	R2	1/2”PT male		
G8	G1” male	M20	M20x1.5 male		
G12	G1-1/2” male	M22	M22x1.5 male		

(8) Medium Temperature	
(blank)	-20 to 85°C (standard)
T1	-20 to 150°C (add cooling fins)
T2	-20 to 200°C (add cooling fins)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Example :PM300-0100-G-42-02-D-G2

Option: Digital Display (4-20mA or RS485 Modbus RTU output only)

Model	DP-3	DP-3-L	DP-9	DP-7
	Removable 	Removable 	Non-Removable 	Non-Removable 
Display	4-Digit LCD	4-Digit LED	4-Digit LED	4-Digit LED
Output / Switching	4-20mA / without	4-20mA / Relay or NPN	4-20mA / NPN	RS485 / without
Electrical connection	DIN43650	DIN43650	M12x1(5-pin)	DIN43650