

PR Series

Relative low-pressure transmitter
0 ... 0.5-0.6bars

Ref : 4013

Rev : B

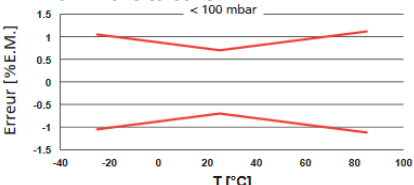
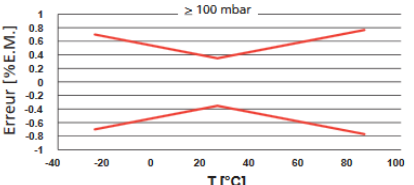


DESCRIPTION

The compact pressure transmitters of the PR Series are based on the ceramic technology and provides very high measurement accuracy.

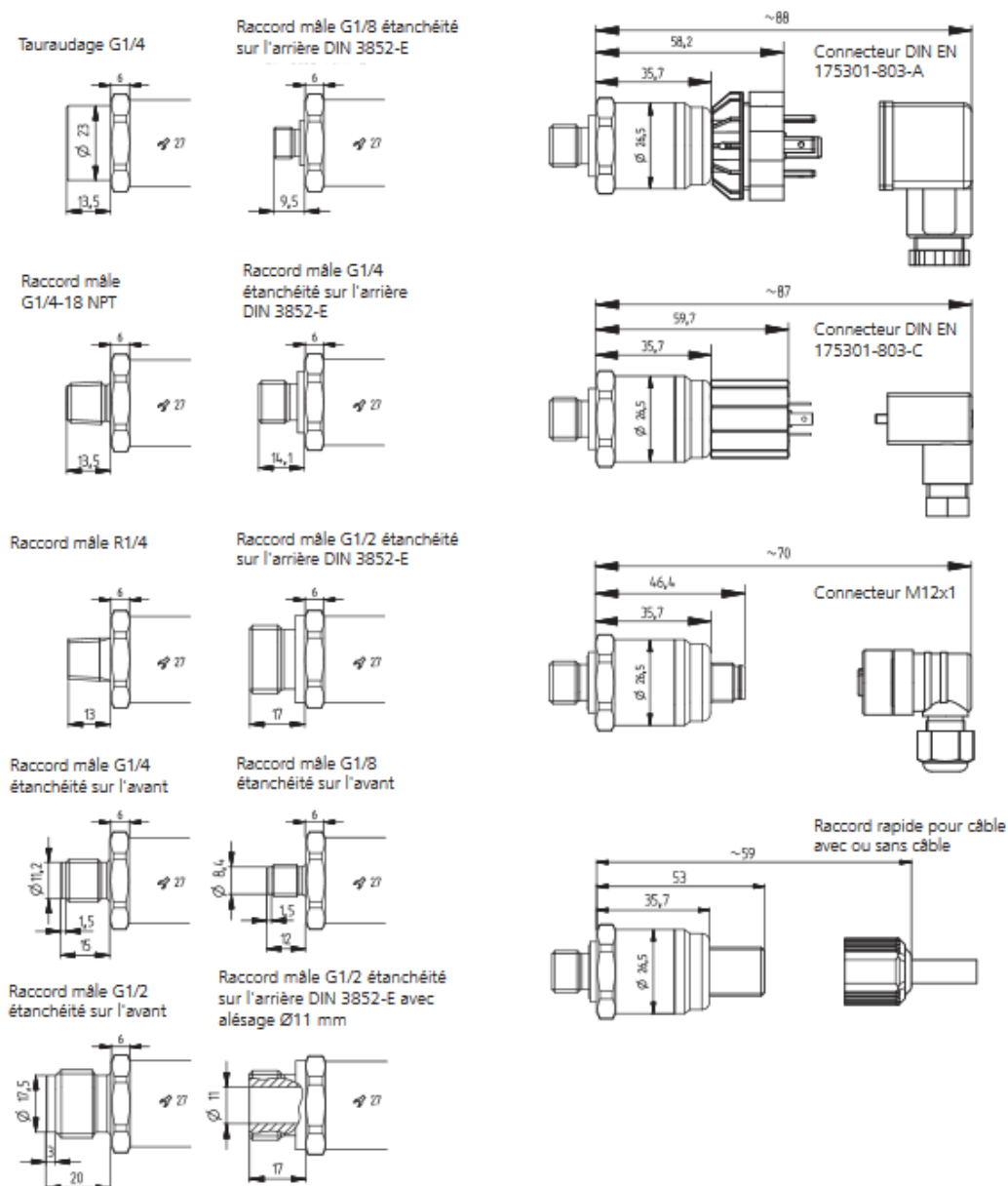
They offer a large variety of types, connections, pressure resistance starting from 50 mbar.

TECHNICAL CHARACTERISTICS

MODEL		Power supply outlet - mA	Power supply outlet  - EX	Amplified Outlet – 5V	Amplified Outlet – 10V
INLET Pressure range	BAR PSI MPa	0-0.05/ 0.10 /0.16 / 0.20 / 0.25 / 0.30 / 0.40 / 0.60 0-1/ 2 / 3 / 5 / 10 0-0.005/ 0.0010 / 0.0016 / 0.020 / 0.025 / 0.030 / 0.040 / 0.060 /			
Type of pressure	Relative				
Max overload	2 bar				
Burst pressure	2 bar				
Medium	Liquids or gaseous				
Absorbed current	< 23 mA		< 23 mA	< 5 mA	< 5 mA
Power supply	10 – 33 Vdc		10 – 33 Vdc	7 – 33 Vdc	12 – 33 Vdc
OUTLET Full scale output	20 mA		20 mA	5 V	10 V
Charge	$< \frac{\text{Tension alim}-10V}{0.02 \text{ A}} \Omega$		$< \frac{\text{Tension alim}-10V}{0.02 \text{ A}} \Omega$	> 10 kΩ / < 100 nF	> 10 kΩ / < 100 nF
Offset at 20°C	4 mA		4 mA	0 V	0 V
Precision	Response curve (at 25°C) Resolution Long-term stability according to IEC EN 60770-1 Incorrect position horizontal mounting Incorrect position vertical mounting, pressure connection upwards			± 0.35% FSO or FSO < 100mbar ±0.7% FSO <0.1% FSO ±0.25% FSO +0.1 mbar +0.2 mbar	
Insulation tension	500 Vdc				
Response timing	< 150 ms				
Pressure cycles	< 100 Hz				
ENVIRONNEMENT Ambient temperature	-25°C to 85°C				
Fluides temperature	FPM : from -15°C to 85°C EPDM: from -25°C to 85°C NBR : from -20°C to 85°C				
Compensation temperatures	< 100 mbar  ≥ 100 mbar 				

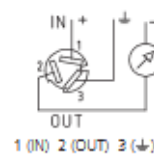
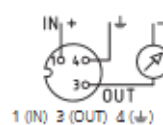
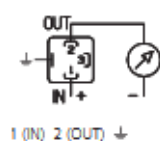
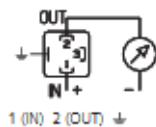
Behavior in temperature	≤ ± 0.7% EM / 10K °C			
PHYSICAL CONNECTION Pressure connection	Bores	G 1/4	With toric joint FPM	
	Male connection	1/4 – 18 NPT		
		R 1/4	EN 10226	
		G 1/8	Front sealing	
		G 1/8	Rear sealing DIN 3852-E with streamlined joint FPM	
		G 1/4	Front sealing	
		G 1/4	Rear sealing DIN 3852-E with streamlined joint FPM	
		G 1/2	Front sealing	
		G 1/2	Rear sealing DIN 3852-E with streamlined joint FPM	
		G 1/2	Rear sealing DIN 3852-E with streamlined joint FPM with precision bore ø11mm	
Electric connections	Quick-connection for cable with or without cable 1.5 / 2 / 3 / 5 m (PVC)		IP67	Classe III
	Connector DIN EN 175301-803-A or C (industrial standard 9.4 mm)		IP65	Classe III
	Métris Pack series 150 P2S		IP67	Classe III
	2 Connectors M12x1		IP67	Classe III
INTRINSIC SECURITY Intrinsic security « i »	Ⓔ: II 1/2 G Ex ia IIC T4 Ga/Gb Ex II 1/2 D Ex ia IIIC T120°C Da/Db			

DIMENSIONS (mm)

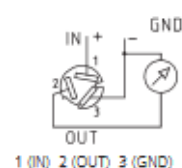
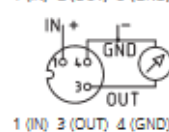
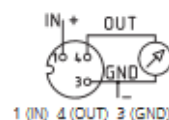
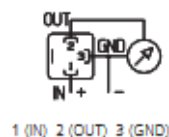
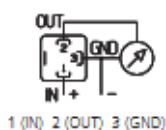


ELECTRIC CONNECTIONS

2 wire



3 wire



ORDER INFORMATION

-PR

PRESSURE RANGE

B : mBAR
P : PSI

OUTLET
420 : outlet 4 – 20 mA
5V : outlet 0 – 5 V
10V : outlet 0 – 10 V

 UNIQUE ALPHANUMERIC CODE
 according to client's needs

CONTACT

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