

# PR Series

Relative and absolute pressure transmitter  
-1 ... 0 - 60 bar

Ref : 4019

Rev : B



## DESCRIPTION

This pressure transmitter of the PR series is based on ceramic technology. They stand out because of their compact and robust design and very high measurement accuracy. A large selection of connections is available. The swift connector allows a quick mounting by the user.

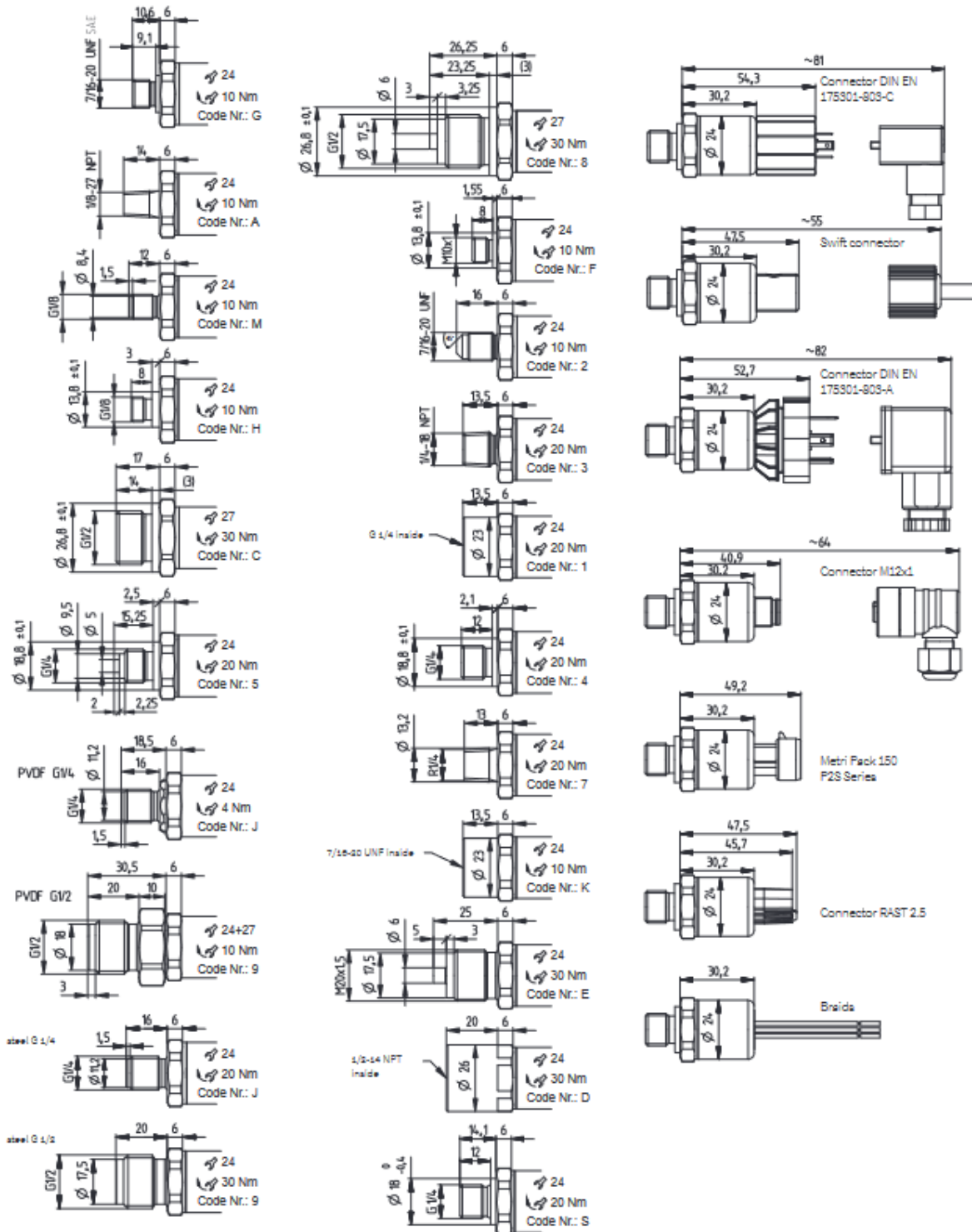
MESUREX is a sensor manufacturer. We can adapt most sensors to your needs. Please [contact us](#).

## TECHNICAL CHARACTERISTICS

MODEL	Current output - mA	Current output - EX	Amplified output – 5V	Amplified output – 10V
<b>INPUT</b> 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 and absolute			
Tolerable overload / rupture pressure	< 4 bar 3.0 x fs ; > 4 bar 2.5 x fs			
Medium	Liquids and gases			
Current absorbed	< 23 mA	< 23 mA	< 7 mA	< 7 mA
Power supply	7 ... 30 Vdc	10 ... 30 VDC	7 ... 33 VDC	12 ... 33 VDC
<b>OUTPUT</b> Full scale output	4 ... 20 mA	4 ... 20 mA	0 ... 5 V	0 ... 10 V
Charge	$< \frac{\text{Supply voltage}-7V}{0.02 A} \Omega$	$\frac{\text{Supply voltage}-10V}{0.02 A} \Omega$	> 10 kΩ / < 100 nF	> 10 kΩ / < 100 nF
Precision	± 0.3% FSO			
Insulation voltage	500 Vdc			
Response time	< 2 ms, 1 ms typ.			
Load cycles	< 100 Hz			
<b>ENVIRONMENT</b> Ambient temperature	-30°C to 85°C (-EX -25°C to 85°C)			
Medium temperature	FPM : -15°C to 125°C (-EX -15°C to 120°C) EPDM: -40°C to 125°C (-EX -30°C to 120°C) NBR : -20°C à 100°C			
<b>PHYSICAL CONNECTION</b> Pressure connection	Inside thread	G1/4 7/16 – 20 UNF ½ - 14 NPT	with O-Ring seal FPM (-30 ... +135 °C)	
	Outside thread	7/16 - 20 NF ¼ -18 NPT 7/16 - 20 NF G ¼, G ½, G ⅝ G ¼, G ½ G ¼ R ¼ 1/8 – 27 NPT G 1/8  M10x1 M20x1.5 G ¼, G ½	sealing cone 45°  sealed at back SAE 4 with O-Ring seal FPM (-20 ... +135 °C) sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM (-30...135 °C) sealed at back and manometer (combi) with Profile seal ring in FPM (-30...135 °C) sealed at back DIN 3852-2 form A EN 10226  sealed at front or sealed at back and manometer (combi) with Profile seal ring in FPM (-30 ... +135 °C) sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM (-30..135 °C) sealed at front and manometer (combi) sealed at front	

Electrical connection	Swift connector with or without cable 1.5 / 2.0 / 3.0 / 5.0 m (PVC spec.) Connector DIN EN 175301-803-A or C (industrial standard 9.4 mm) Metri Pack 150 P2S Series Connector M12x1	IP 67 IP 65 IP 67 IP 67	Class III Class III Class III Class III
<b>PROTECTION AGAINST EXPLOSION</b> Intrinsic safety "i"	Ex II 1/2 G Ex ia IIC T4 Ga/Gb Ex II 1/2 D Ex ia IIIC T125°C Da/Db		

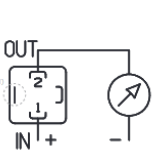
DIMENSIONS (mm)



## ELECTRICAL CONNECTIONS

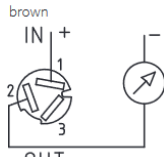
### 2 wire

Connector DIN  
EN 175301-803-A or C



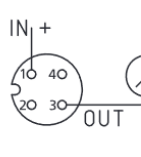
1 (IN) 2 (OUT)

Swift connector



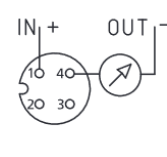
1 (IN) 2 (OUT)

Connector M12x1



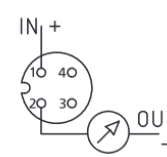
1 (IN) 3 (OUT)

Connector M12x1



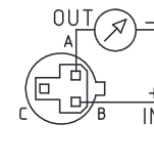
1 (IN) 4 (OUT)

Connector M12x1



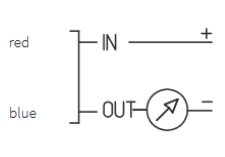
1 (IN) 2 (OUT)

Metri Pack 150 P2S Series



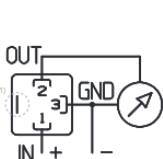
B (IN) A (OUT)

Braids



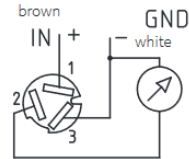
### 3 wire

Connector DIN  
EN 175301-803-A or C



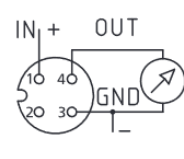
1 (IN) 2 (OUT) 3 (GND)

Swift connector



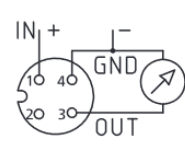
1 (IN) 2 (OUT) 3 (GND)

Connector M12x1



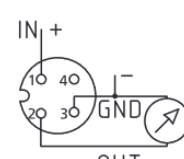
1 (IN) 4 (OUT) 3 (GND)

Connector M12x1



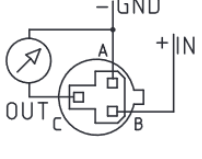
1 (IN) 3 (OUT) 4 (GND)

Connector M12x1



1 (IN) 2 (OUT) 3 (GND)

Metri Pack 150 P2S Series



B (IN) C (OUT) A (GND)

## ORDER INFORMATION

### -PR

PRESSURE RANGE

**B** : BAR  
**P** : PSI

EXIT  
**420**: Output 4 – 20 mA  
**5V**: Output 0 – 5 V  
**10V**: Output 0 – 10 V

UNIQUE ALPHANUMERIC CODE  
ACCORDING TO CUSTOMER

## CONTACT

**MESUREX**  
13 Rue des Corroyés  
78730 Saint Arnoult en Yvelines (France)

Phone : +33 (0) 1 30 41 23 62  
Mail : [mesurex@mesurex.fr](mailto:mesurex@mesurex.fr)  
Web : [www.mesurex.fr](http://www.mesurex.fr)