

PAS / PRS Series

Relative and absolute pressure transmitter
0 to 60 bar

Ref : 2836

Rev : A



DESCRIPTION

This compact transmitter is based on ceramic technology. It is suitable for a wide variety of industrial applications. Its welded internal structure allows applications with charged water or corrosive products.

TECHNICAL DATA

MODEL		Current output - mA	Current output -  - EX	Amplified output – 5V	Amplified output – 10V
INPUT Pressure range (bar)	Relative	-1 – 0 0 – 1 / 1.6 / 2.5 / 4 / 6 / 10 / 16 / 25 / 40 / 60			
	Absolute	0 – 1 / 1.6 / 2.5 / 4 / 6 / 10 / 16			
Permissible overload		≤ 4 bar 3.0 x FSO			
Burst pressure		> 4 bar 2. 5 x FSO			
Fluid		Liquids and gases			
Current absorbed		< 23 mA	< 23 mA	< 7 Ma	< 7 mA
Power supply		7 – 33 Vdc	10 – 30 Vdc	7 – 33 Vdc	8 – 33 Vdc
OUTPUT Full scale output		4 ... 20 mA	20 mA	5 V	6 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
Insulation tension		500 Vdc			
Response time		< 2 ms typ. 1 ms			
Pressure cycles		< 100 Hz			
ENVIRONMENT Room temperature		-30°C to 85°C			
Storage temperature		-50°C to 100°C			
PHYSICAL CONNECTION Pressure connection		Tapping	7/16 – 20 UNF		
			1/2 – 14 NPT		
			G 1/4	With FPM O-ring (-30 ... +135 °C)	
		Male connector	7/16 – 20 UNF	Sealing cone	
			1/4 – 18 NPT		
			7/16 – 20 UNF	Sealing at back SAE 4 with O-ring FPM (-20 ... +135°C)	
			G1/4, G1/8, G1/2	Sealing at back DIN 3852-E with FPM profile seal	
			G 1/4	Sealing at back and pressure gauge with FPM profile seal	
			R 1/4	IN 10226	
			G 1/4, G 1/2	Sealing at back and pressure gauge with FPM profile seal	
			1/8 – 27 NPT		
			G 1/8	Sealing at front or back and pressure gauge (combi) with FPM profile seal	
			M10x1	Sealing at back DIN 3852-E with FPM profile seal	
			M20x1.5	Sealing in front and pressure gauge (combi)	
			G 1/2, 1/4	Sealing in front	
Electrical connections		Quick coupling for cable with or without cable 1.5 / 2 / 3 / 5 m (PVC)		IP67	Class III
		DIN EN 175301-803-A or C connector (industry standard 9.4 mm)		IP65	Class III
		Metri Pack 150 P2S series		IP67	Class III
		M12x1 connector		IP67	Class III
		Wire output		IP65	Class III
		RAST 2.5 connector (only 3-wire)		IP00	Class III

INTRINSIC SECURITY

Intrinsic safety "i"

Type examination certificate

Connection to certified intrinsic ohmic sources with the following maximum values:

Active internal inductivity and capacity for versions with EN 175301-803-A and M12x1 connector

IECEx

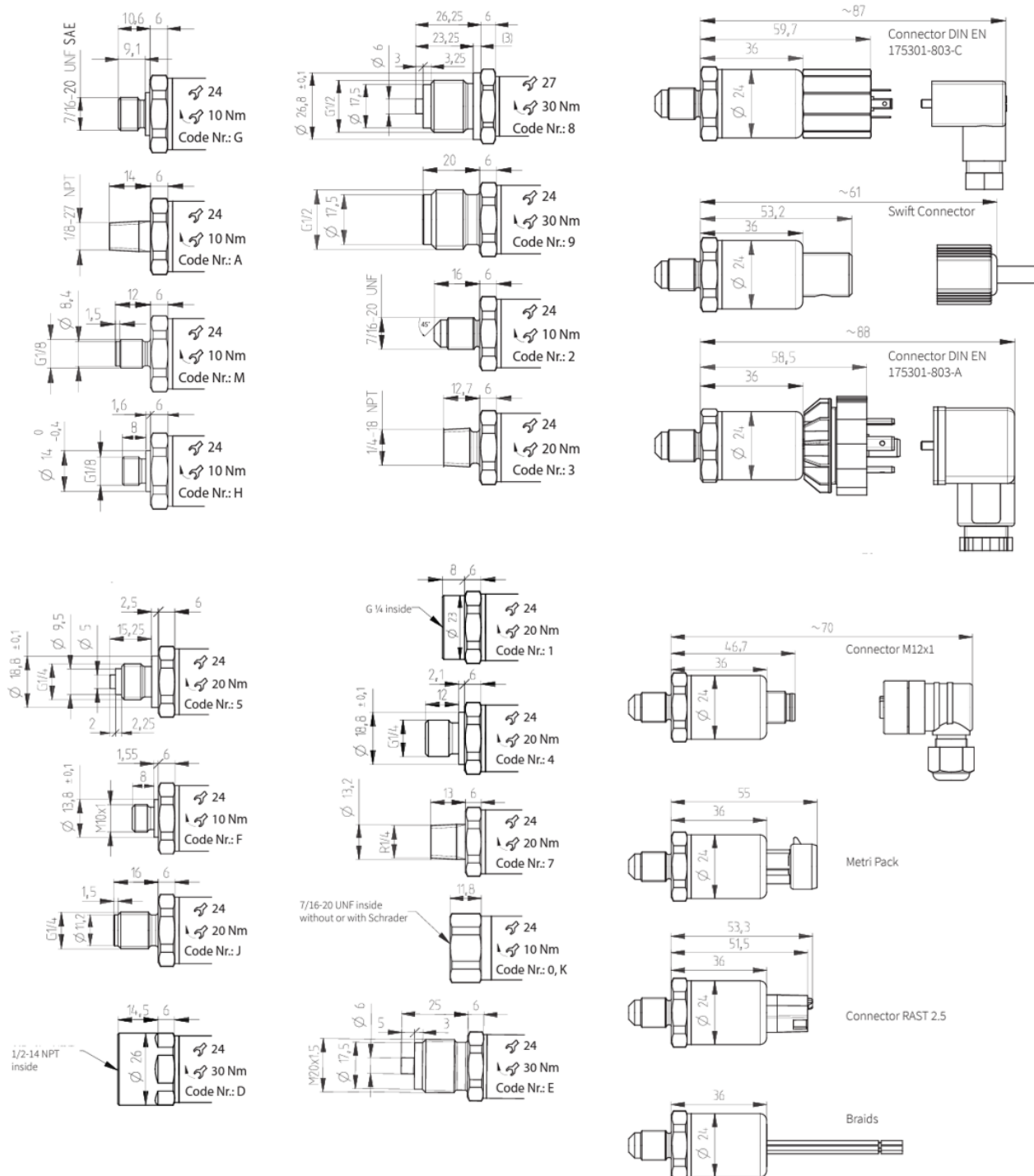
Ex II 1/2 G Ex ia IIC T4 Ga/Gb

Ex II 1/2 D Ex ia IIIC T125°C Da/Db

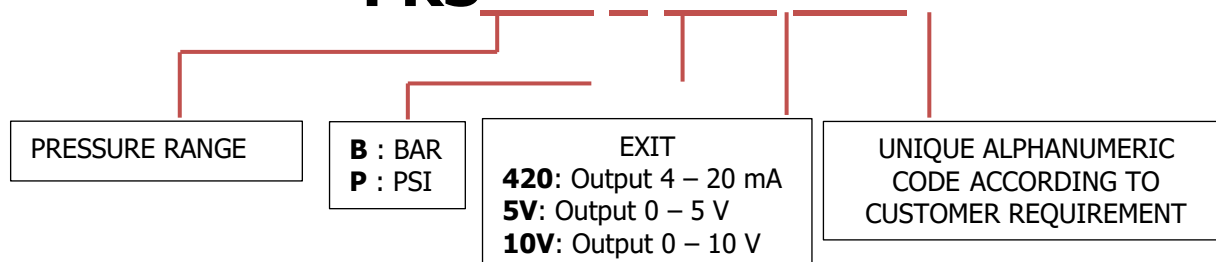
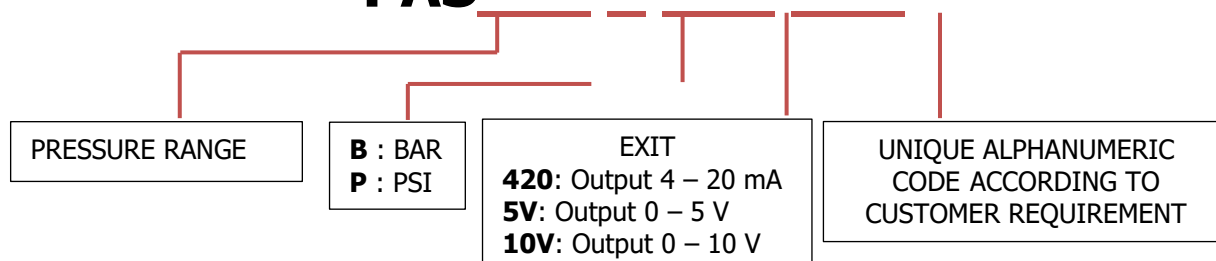
SEV 10 ATEX 0173

 $U_i \leq 15 \text{ Vdc}$; $I_i \leq 200 \text{ mA}$; $P_i \leq 750 \text{ mW}$ $L_i = 0 \text{ nH}$; $C_i = \leq 150 \text{ nF}$

SEV 16.0007

DIMENSIONS (mm)

ORDER INFORMATION

-PRS**-PAS**

CONTACT

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