

STAINLESS STEEL PRESSURE TRANSMITTER FLUSH DIAPHRAGM

ETTRANS – PX1

Flush Diaphragm Datasheet



Precise Measurement, Ultimate Control

www.enelsan.com

Pressure Transmitter

MODEL Etrans- PX1



Application Areas

- Food and Beverage Industry
- Pharmaceutical Industry
- Biotechnology
- Wastewater Treatment
- Chemical Industry
- Pulp and Paper Industry
- Petrochemical Industry
- Paint and Coating Industry
- Cosmetics Industry
- Dairy Industry

Features

- Flush Design: Prevents clogging and build-up in viscous media.
- High Accuracy: Ensures excellent linearity and minimal hysteresis.
- Robust Housing: Durable 316L stainless steel for corrosive environments.
- Thermal Stability: Reliable performance under high temperatures and overloads.
- Wide Compatibility: Flexible connections for diverse industrial and hygienic uses.

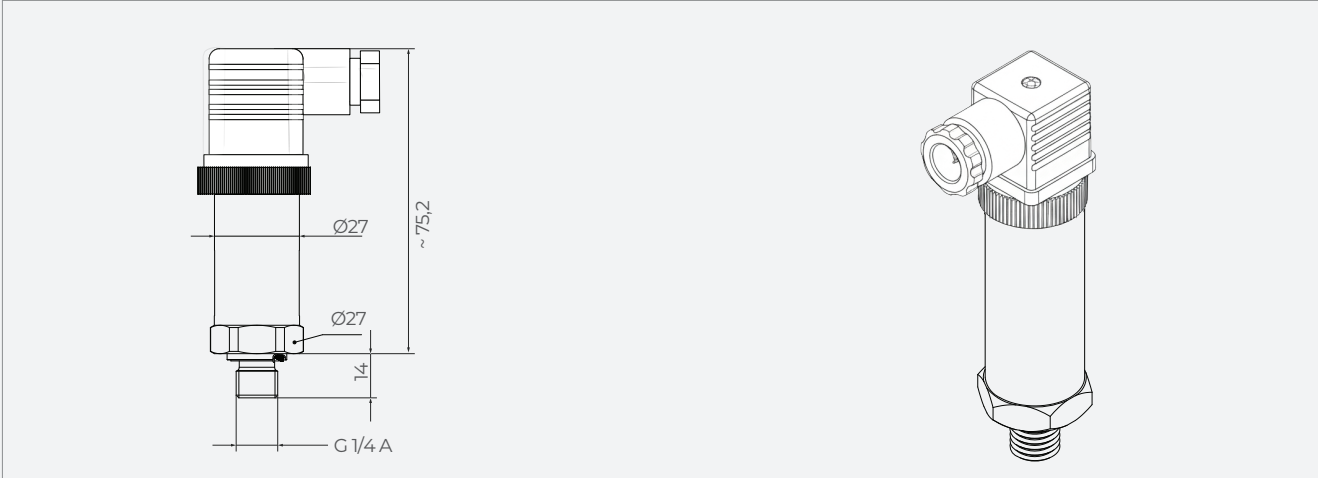
Description

The flush diaphragm pressure transmitter consists of a ceramic/silicon sensor housed within a stainless steel body, or a piezoresistive measuring cell located on a stainless steel 316L body, along with an electronic board. The sensor design ensures that reliability is maintained under temperature fluctuations and overload conditions.

The use of a stainless steel 316L diaphragm or a ceramic/silicon sensor provides high linearity across the entire measurement range while minimizing the hysteresis effect.



Structure



Pressure Range (BAR)	-1 / 1 / 2 / 5 / 10 / 20 / 50 / 100 / 200 / 400 / 600
Overload (BAR)	-3 / 3 / 7 / 12 / 35 / 50 / 120 / 250 / 400 / 600 / 1200

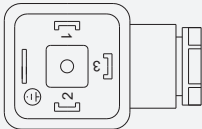
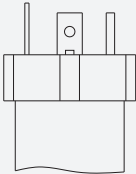
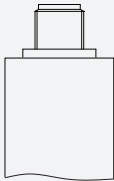
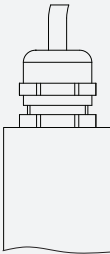
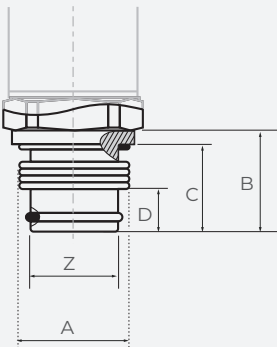
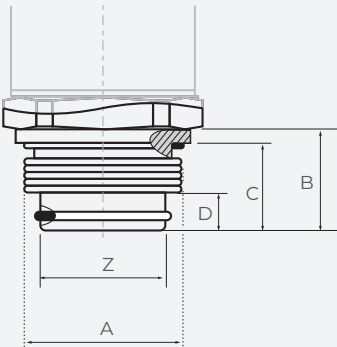
— TECHNICAL FEATURES

Piezoresistive measuring cell	Piezoresistive Measuring Cell
Measurement Variables	Relative and Absolute Pressure
Measuring Range	Maximum 600 bar
Current Output	4~20 mA
Load	(U~10 V) / 0,02 A
Measurement Error	Full Scale ≤ %0,7
Stability	±0,1 Full scale / year
Zero Point	±0,2 mV/V
Zero	±0,02 % FS / K
Operating Temperature	-40° ~ 135°C
Ambient Temperature	-25° ~ 85°C
Protection Class	IP65
Supply Voltage	8 ... 42 VDC
Sensor	Stainless 316L, Ceramic
Process Connection	Stainless steel 316, Hastelloy C, other materials
O-Ring	Viton
Outer Housing	Stainless Steel 316L
Terminal	Stainless Steel 316L
Process Connections	1/2 " threaded / 1 " threaded
Weight	Approximately 0.25 kg

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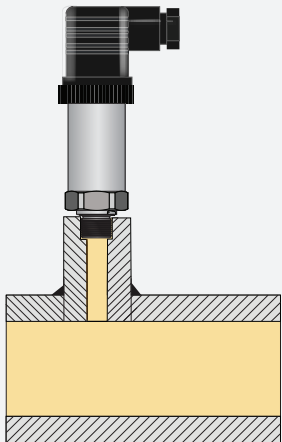
Electrical interface

P01	P05	P04
  DIN43650 (standard)	  circular connector with 4 pins	  PVC cable Ø 5mm - 2 wires for current loop - 3 wires for voltage output - cable length (L) should be specified
Electronics housing (casing)		
 A: G1/2A B: 23 C: 20,5 D: 10 Z: 18		 A: G1 B: 23,5 C: 20,5 D: 7,5 Z: 30

Mounting Method

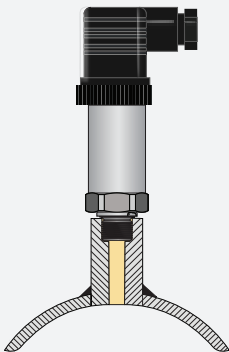
Pipeline installation

90°



Pipeline installation

90°



Angular Connector DIN 175301-803 A

		2-wire	3-wire
	U ^B	1	1
	0V	2	2
	S+	-	3

Angular Connector DIN 175301-803 C

		2-wire	3-wire
	U ^B	1	1
	0V	2	2
	S+	-	3

Circular Connector M12x1 (4-pin)

		2-wire	3-wire
	U ^B	1	1
	0V	3	3
	S+	-	4

Cable Outlet,unshielded

		2-wire	3-wire
	U ^B	red	red
	0V	black	black
	S+	-	green

U^B Positive power Supply terminal

0V Negativepower Supply terminal

S+ Analogue output

Contact us

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