

STAINLESS STEEL PRESSURE TRANSMITTER

WITH M12 CONNECTOR

PRESSURE TRANSMITTER
FOR DEMANDING INDUSTRIAL
APPLICATIONS

ETRANS – P05 Datasheet

Precise Measurement,
Ultimate Control

www.enelsan.com



Pressure Transmitter

MODEL Etrans- P05



Application Areas

Oil & Gas Industry
Water & Wastewater Treatment
Food & Beverage Industry
Chemical & Petrochemical Industry
Hydraulics & Pneumatics
HVAC Systems
Pharmaceutical Industry
Marine & Shipbuilding

Features

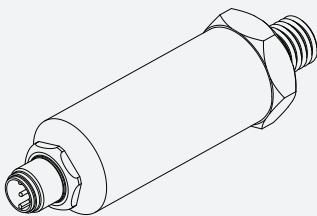
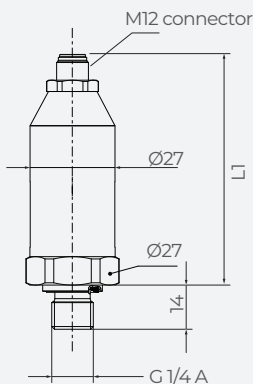
- Wide Range: From -1 bar up to 2000 bar for versatile use.
- High Accuracy: Precision rating of $\leq 0.2\%$ FS.
- Durable Build: Robust AISI 316L stainless steel housing.
- Reliable Sensor: High-stability piezoresistive measuring cell.
- Flexible Output: Supports 4-20 mA, HART, and 0-10V signals.
- Thermal Strength: Operates between -40°C and 135°C .
- Industrial Protection: IP65 and IP67 rated against dust/water.
- Compact Design: Small footprint ($\varnothing 27\text{mm}$) for easy installation.

Description

Enelsan's stainless steel pressure transmitter without display is a high-performance solution engineered for the precise measurement of liquid, gas, and steam pressure in demanding industrial environments. Featuring a rugged AISI 316L stainless steel body and advanced piezoresistive sensing technology, this device ensures long-term stability and exceptional reliability even under harsh conditions. Its compact, display-less design allows for seamless integration into tight spaces, while its standard output signals (such as 4-20 mA or 0-10 V) guarantee full compatibility with modern automation systems. Offering high accuracy and a broad operating temperature range, this transmitter is an ideal choice for diverse sectors ranging from petrochemicals to food processing.



Structure



Pressure Range (BAR)	Min. -1 / Max. 2000
Overload (BAR)	F.S × 2

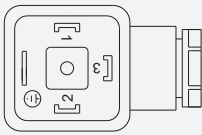
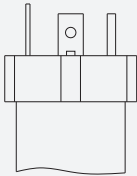
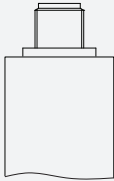
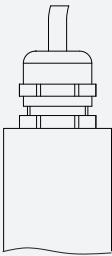
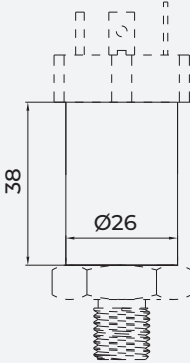
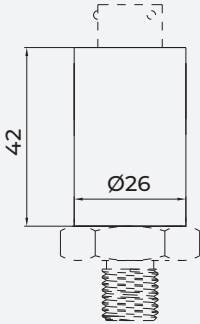
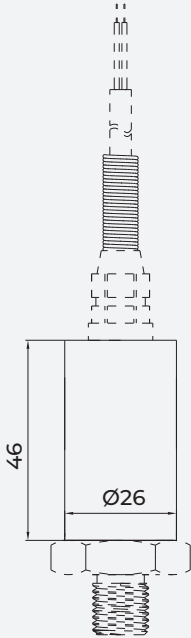
TECHNICAL FEATURES

Working Principle	Measuring Principle	Piezoresistive Measuring Cell
Inputs	Measurement Variables	Relative and Absolute Pressure
	Measuring Range	Max. 2000 BAR
Outputs	Current Output	4–20 mA / 4–20 mA + HART / Optional 0–10 V (U = 10 V) / 0.02 A
	Load	(U–10 V) / 0,02 A
Precision	Accuracy	Full Scale ≤ %0,2
	Zero Point	±0,2 mV/V
Temperature Effect	Zero	±0,02 % FS / K
Operating Conditions	Operating Temperature	-40° ~ 135°C
	Ambient Temperature	-25° ~ 85°C
	Protection Class	IP65
Power Supply	Power Supply Voltage	10...36 VDC
Materials	Sensor	Stainless Steel 316L, Ceramic
	Process Connection	Stainless Steel 316L, Hastelloy C, other materials
	O-Ring	Viton
	Outer Box	Stainless Steel 316L
	Terminal	Plastic
Process Connections		G 1/4", G 1/2", G 1/2" flush, clamp, flange, and others
Size and Weight	Weight	Approximately 0.25 kg
	Size	Ø 27 × L1 mm

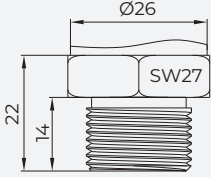
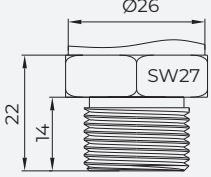
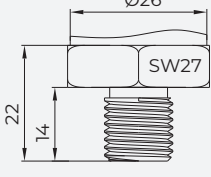
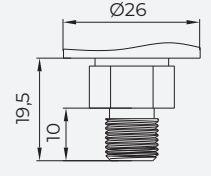
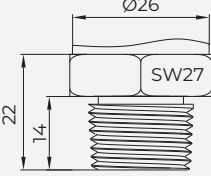
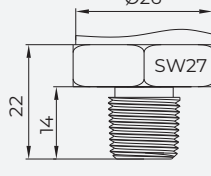
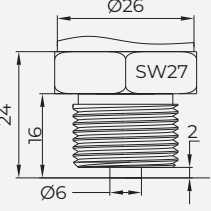
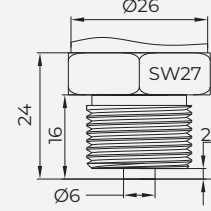
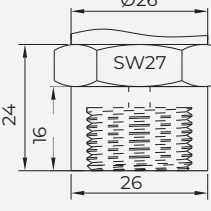
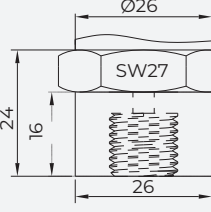
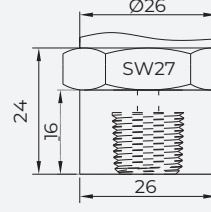
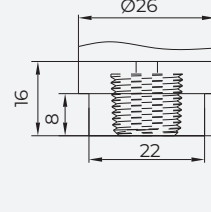
Pressure Transmitter
MODEL Etrans- P05



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)		
		

MECHANICAL CONNECTION

	M20x1.5	G1/2	G1/4
Dimensions (mm)			
	G1/8	NPT1/2	NPT1/4
Dimensions (mm)			
	M20x1.5-c	G1/2-c	G1/2"(F) M20 x 1.5(F)
Dimensions (mm)			
	G1/4"(F)	1/4NPT(F)	1/4NPT(F)
Dimensions (mm)			

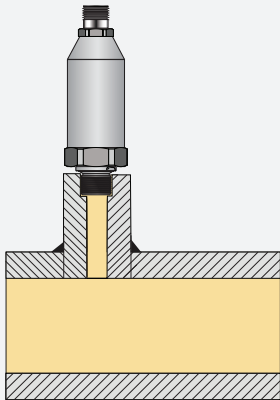
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Mounting Method

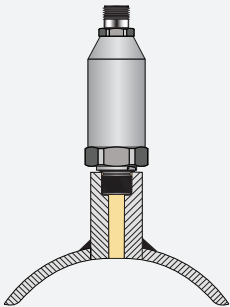
Pipeline installation

90°



Pipeline installation

90°



Contact us

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