

DIGITAL PRESSURE TRANSMITTER

PRESSURE SENSOR TRANSDUCER
WITH LCD DIGITAL DISPLAY

ETRANS – P02 Datasheet

Power Supply: 12-30VDC,
Pressure Range: 0-145PSI

Precise Measurement,
Ultimate Control

www.enelean.com



Pressure Transmitter

MODEL Etrans- P02



Application Areas

Water & Salt Water Networks
Food Production & Transfer Lines
Alcohol & Beverage Measurement
Chemical Fluids & Solvents
Fuel Transfer & Consumption Monitoring
Industrial Automation Integration (PLC/SCADA)
Pressurized Tank Level Measurement
Steam & Hot Water Boiler Systems
Filter Clogging & Maintenance Monitoring
HVAC & Clean Room Pressurization
Oil & Gas Pipeline Monitoring
Hydraulic & Pneumatic System Control

Features

- Integral 4-digit display, bright red LED
- Digit height 9mm
- 4~20mA current loop output signal
- Pressure and vacuum options
- Vast pressure measurement range
- Wide application scope and long service life
- High accuracy and long-term stability
- Good anti-corrosion and anti-impact ability
- Available ranges from -1 to +100 bar
- IP65 rated

Description

The Etrans-P02 series high-precision and low-cost ceramic* pressure transmitters with a 4~20 mA output are designed for use in most industrial applications and are suitable for the measurement of various pressure media. The transmitters are equipped with an integrated, bright red 4-digit LED display, with each digit being 9 mm high.

The devices feature a high-quality thick-film ceramic* sensor and a custom amplifier circuit. The output signal is configured as a 4~20 mA current loop. The pressure diaphragm is manufactured from ceramic* material, and the wetted parts are 316L stainless steel. Thanks to the high thermal stability of the ceramic and the thick-film resistance, the transmitter can operate over a wider temperature range. Additionally, this feature ensures that thermal drifts originating from the zero point and sensitivity remain very low across the entire operating temperature range.

* A silicon pressure element will be used for the -1...+0 bar measurement range.



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
	Load	
Precision	Accuracy	Full Scale ≤ %0,2
	Zero Point	±0,2 mV/V
Temperature Effect	Zero	±0,02 % TS/K
Operating Conditions	Operating Temperature	-40° ~ 135°C
	Storage Temperature	-40° ~ 70°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		G1/4", G1/2", G1/2" flush, Clamp, Flange, etc.
Size and Weight	Weight	Approximately 0.25 kg
	Size	Ø 26,6 × 70,5 mm

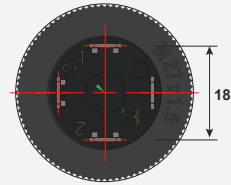
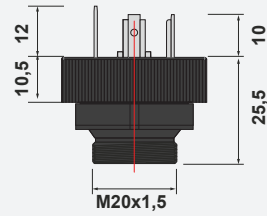
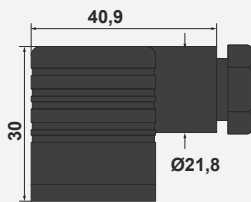
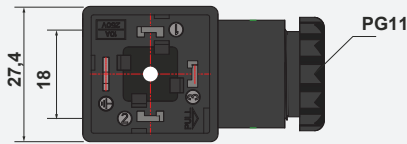
Pressure Transmitter

MODEL Etrans- P02



Connector Structure

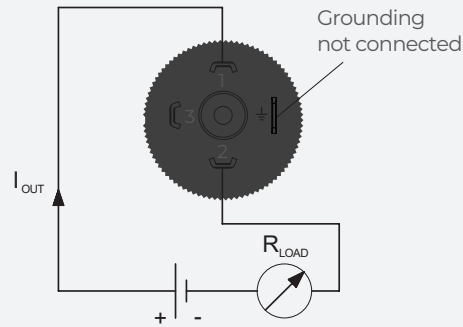
DIN43650 Connector /A



Electrical connection

4-20mA Connections (2-wire)

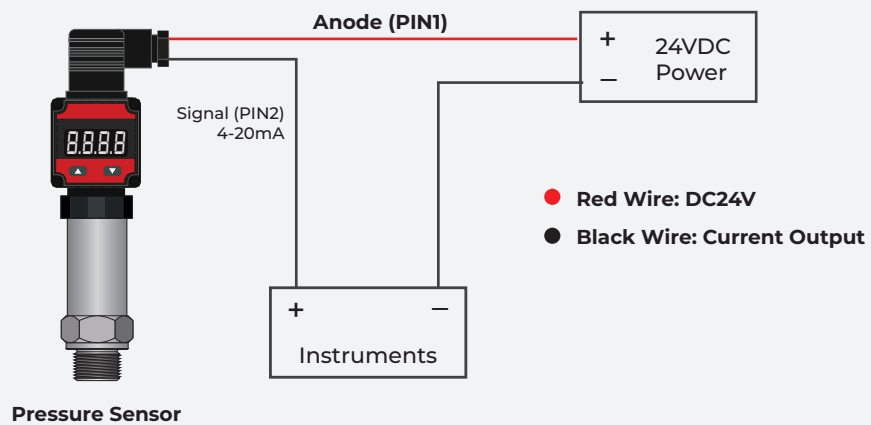
Pin No	Signal
1	+VDC Supply
2	4...20mA Analog Output



DIN43650 Connector

Wiring Guidance

2-Wire Current Output Wiring Diagram



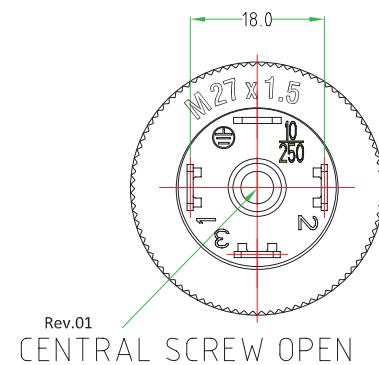
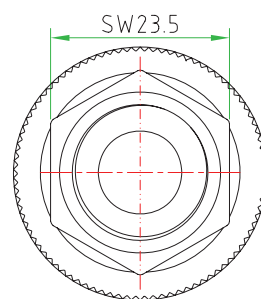
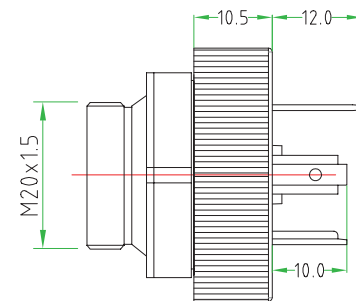
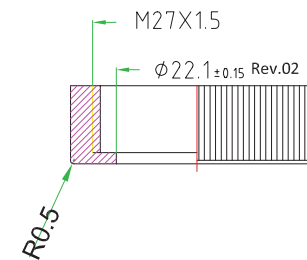
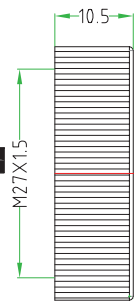
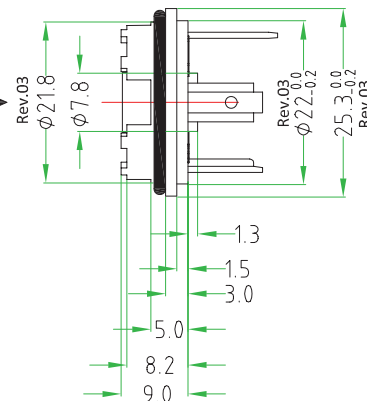
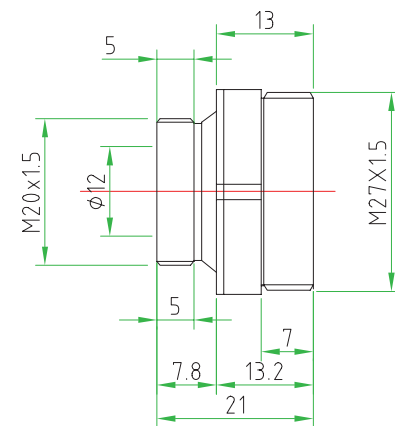
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BASE FEATURES	PRODUCT TYPE	CIRCULAR BASE
	FIXING NUT	M27X1,5
	RIDUCTION TYPE	FROM M27X1,5 TO M20
	NUMBER OF CONTACTS	3POLES+EARTH
	CONTACT MATERIAL AND TREATMENT	PCuZn,SILVER PLATED
	CONTACT TYPE	SOLDERED
	BASE MATERIAL	PA66
	O'RING MATERIAL	NBR
	COLOUR BASE	BLACK
	PROTECTION CLASS	IP65

DATE	REV.	DESCRIPTION	NAME
21.09.2010	01	Modify to the central screw---->NEW CENTRAL SCREW OPEN	LORENZO CIMMINO
08.07.2011	02	Changed the diameter of the hole of the nut from 21.7mm to 22.1mm	LORENZO CIMMINO
08.07.2011	03	Changed the diameter of the base	LORENZO CIMMINO
08.07.2011	04	Changed the thickness of the o-ring from 1.8mm to 1.6mm	LORENZO CIMMINO
TOLLERANZE		DISIGNATORE	DATA
U.d.M		LORENZO CIMMINO	20.12.10
ANGOLO		CONTROLLATO	SCALA
			1:1
			DISIGNO N.
DESCRIZIONE		TIPO	MATERIALE
CIRCULAR BASE FOR DIN43650/A WITH M27X1.5 FIXING NUT 3POLES+EARTH WITH RIDUCTION FROM M27X1.5 TO M20		BASIS	
		CODICE	
HTP HIGH TECH PRODUCTS			BGRN03000-M20