Pressure Transmitter TP-692

INSTRUCTION MANUAL V1.0x C

NOVUS
We Measure, We Control, We Record

Product sold by NOVUS Automation Ltda.

1. PRESENTATION

The model **692 Pressure Transmitter** features a unique and proven ceramic sensor, created with cutting-edge technology. The equipment works with a wide range of pressure measurements and features various types of electrical connections and several standard signal outputs. The wide variety of options makes this transmitter ideal for applications across a broad spectrum of the industry.

This model has:

- Very low temperature sensibility;
- High resistance to extreme temperatures.

2. IDENTIFICATION

Attached to the equipment is the identification tag. Check if the characteristics described on this label match with were requested.

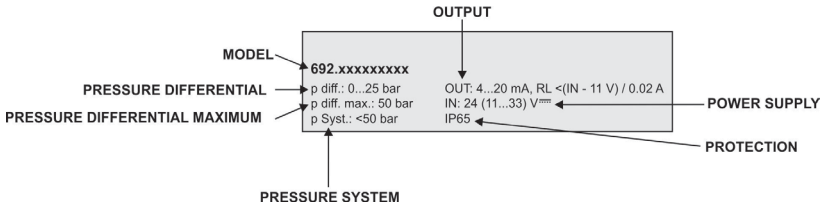

Fig. 01 – Identification Tag

3. ELECTRICAL CONNECTION

3.1 WIRING DIAGRAM

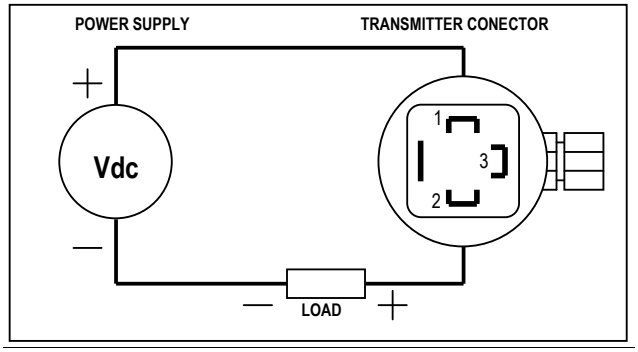

Fig. 02 – Wiring Diagram

The LOAD element in this circuit corresponds to the device indicating the pressure measured by the transmitter, which can be an indicator, a recorder, etc. Its maximum impedance is defined as a function of the voltage value of the POWER SUPPLY.

3.2 CONNECTIONS

The equipment has the following wiring diagram:

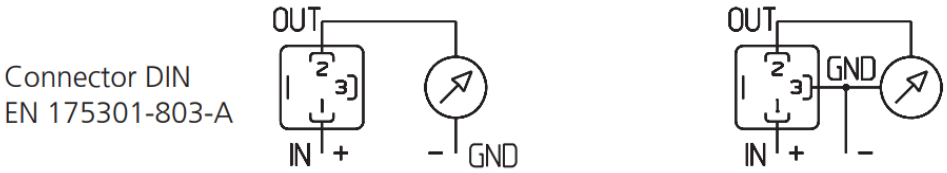

Fig. 03 – Connections

4. MECHANICAL CONNECTION

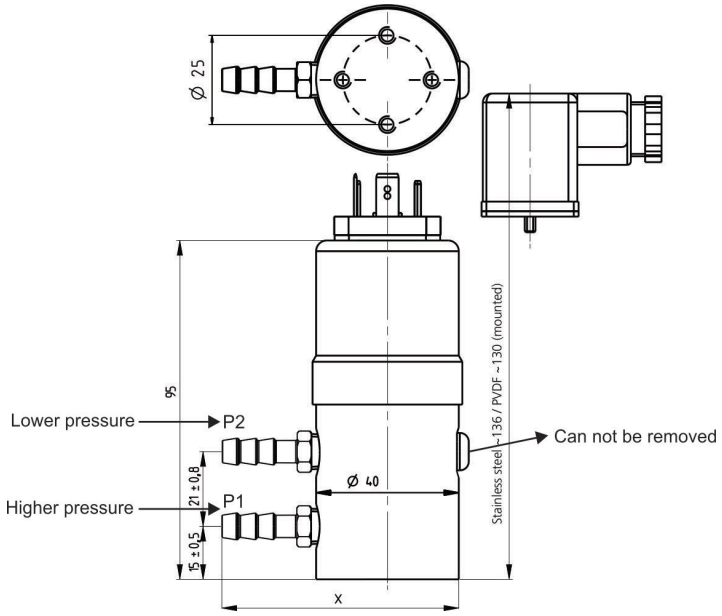

Fig. 04 – Dimensional

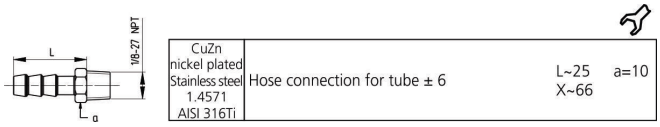

Fig. 05 – Pressure Connector

To attach the tubes to the transmitter, firmly grasp the screw so that it does not rotate.

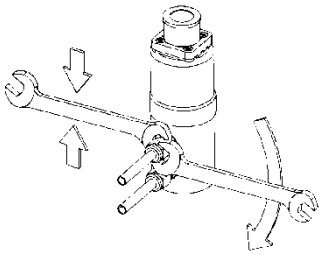

Fig. 06 – Hose Attachment

5. ACCURACY

To calculate the maximum error values, the following sum must be performed:

Maximum Error = Tolerance Full Scale Value + Linearity and Repeatability Error + Long-Term Stability Error

Parameter	Unit	Versions with overload on one side ≤ 2x nominal pressure	Versions with overload on one side ≤ 3x nominal pressure	Versions with overload on one side ≤ 7.5x nominal pressure
Tolerance zero point (max.)	% FS	± 0.4	± 0.75	± 1.25
Tolerance full scale (max.)	% FS	± 0.4	± 0.75	± 1.25
Resolution	% FS	0.1	0.15	0.25
Total of linearity, hysteresis and repeatability (max.)	% FS	± 0.5	± 0.75	± 1.25
Long term stability (DIN EM 60770)	% FS	± 0.5	± 0.5	± 0.5

Test Conditions: 25 °C, 45 % RH, Power supply 24 Vdc / TC z.p. / TC s. -15 ... +80 °C

Table 01 – Accuracy

6. TECHNICAL DATA

Power Supply	11 to 33 Vdc	
Output	4-20 Ma (2 wire)	
Max. Impedance Load	RLmax = (Power Supply - 11 V) / 20 mA	
System Pressure	0…0.1 to 25 bar	
Rupture Pressure	1.5x system pressure	
Operating temperature medium and ambient	-15 to +80 ºC	
Dynamic Response	< 5 ms	
Materials in contact with the medium	Sensor: Ceramic Al_2O_3 (96 %)	
	Pressure connection: Stainless steel 1.4305 / AISI 303; PVDF, CuZn niquelado	
	Sealing material: FPM, EPDM, NBR, MVQ	
Pressure Connection	CuZn nickel plated for pipe outside ± 6 mm	
Electrical Connection	Connector DIN 175301-803-A	
Protection Standard	IP65	
Case	Stainless steel 1.4305 / AISI 303	
Electromagnetic compatibility	CE conformity acc. EN 61326-2-3	
Weight	430 g.	
Accessories	Female connector DIN EN 175301-803-A with seal IP65, when installed and screwed	**Order Number**
		8832040010

Table 02 – Technical Data

7. WARRANTY

Warranty conditions are available on our website