

Thank you for choosing NIVELCO instrument.
We are sure that you will be satisfied throughout its use!

1. APPLICATION

NIPRESS D-200 loop powered transmitter series is measuring pressure and converting it into voltage and current signal, can be used in 2- and 3-wire system. They are applicable to normal and corrosive mediums, gases, fumes and liquids but is not suggested to use directly with mediums tending to sedimentation, crystallisation or solidification. Design of the transmitter, its overload capability and wide range of temperature, makes it available for wide range of applications of the industry. To protect the transmitter against pressure shocks a damping device (e.g. throttle-disc) should be applied.

2. TECHNICAL DATA

TYPE	D□□-2□□-□	
Range	-1 – 400 bar; (according to the order code)	
Overload capability	According to the order code	
Accuracy	0.5%	
Medium temp.	- 25 °C ... + 125 °C	
Ambient temp.	- 25 °C ... + 85 °C	
Material of wetted parts	Sensor	aluminium oxide ceramic (inner diaphragm)
	Sensor sealing	FKM (Viton)
	Process connec.	stainless steel
	Housing	DIN 1.4301
Output	4 – 20 mA; 0 – 10 V	
Power supply	4 – 20 mA output: 8 – 32 V DC 0 – 10 V DC output: 14 – 30 V DC	
Load resistance	4 – 20 mA, 2-wire: $R_t \leq \frac{U_t - 8V}{0.02A} \Omega$ 0 – 10 V DC, 3-wire: $R > 10 \text{ k}\Omega$	
Process connection	According to the order code	
Electr. connection	Pg 9 DIN 43650 cable gland	
Ingress protection	IP 65	
Electr. protection	SELV Class III.	
Mass	~ 0.14 kg	

2.1 ACCESSORIES

- User's Manual • Warranty sheet • Declaration of conformity

2.2 ORDER CODE

NIPRESS D □ □ - 2 □ □ - □

MEASURING MODE	CODE
Relative	R
Absolute	E

PROCESS CONN.	CODE
½" BSP EN837	C
¼" BSP EN837	A
¼" NPT	G

ACCURACY	CODE
0.5%	2
1% ⁽²⁾	3

OUTPUT	CODE
4 – 20 mA	2
0 – 10 V	3

RANGE (OVERLOAD CAPABILITY) BAR	CODE
-1 – 0 (3) ⁽¹⁾	0
0 – 1.0 (3)	5
0 – 1.6 (5)	6
0 – 2.5 (5)	7
0 – 4 (12)	8
0 – 6 (12)	9
0 – 10 (20)	A
0 – 16 (50)	B
0 – 25 (50)	C
0 – 40 (120)	D
0 – 60 (120)	E
0 – 100 (200)	F
0 – 160 (400)	G
0 – 250 (400)	H
0 – 400 (650)	J

(1) Only with 1% accuracy

(2) From -1 bar to 0 bar

NIPRESS

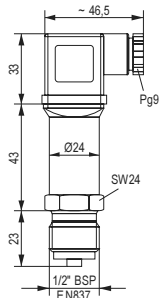
D□□-2□□-□
 PRESSURE TRANSMITTER

User's manual



NIVETEC
 Instrumentação
 e Controle

2.3 DIMENSIONS



3. MOUNTING

Due to its small size and weight the transmitter can directly be installed on pipes, tanks machines. To provide chance for possible replacement of the transmitter during operation the use of closing armature is recommended.

A simple ball valve will be suitable for small pressures. For pressure exceeding 6 bar a three-way blow-off valve can be recommended. Measuring pressure of a medium with temperature over 75°C the application of a condenser would protect the transmitter against overheating and extend its lifetime.

The temperature of the condensate in the water-lodge is practically only 10-20°C higher than that of the ambient air. To protect the transmitter against pressure shocks a damping device (e.g. throttle-disc, half-closed valve) should be applied. Using impulse pipe the proper sloping de-aerating and emptying has to be ensured. Measuring small pressures in systems with substantial height difference between the pressure transmitter and place of measurement the hydrostatic pressure in the impulse pipe must not be forgotten.

In open air application the fastening bolt for the DIN connector should properly be tightened

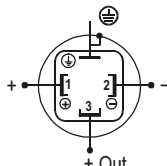
3.1 INSTALLATION

Mounting and dismantling of the transmitter should only be made by using an (SW 24) open-end wrench on the mounting nut flat.)

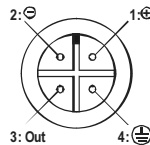
The transmitter must not be screwed in and tightened by its cylindrical enclosure with socket-wrench!

Releasing the fastening bolt of the DIN connector the cable terminal can be pushed out by a screw-driver. Wires pushed through the conduit opening have to be connected to the terminals indicated on the drawing. Proper sealing of the cable gland and gasket of the DIN connector have to be taken care. It is essential to provide for the proper grounding of the transmitter in case of doubt by using the grounding terminal in the connector.

4. WIRING

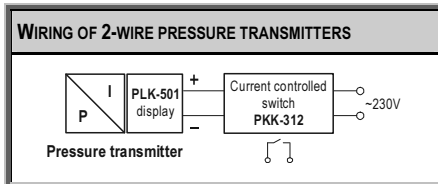


CONNECTION OF
DIN PLUG



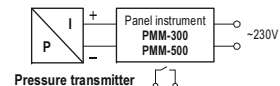
CONNECTION OF
M12 X 1/4 PLUG

4.1 EXAMPLES OF ARRANGEMENTS

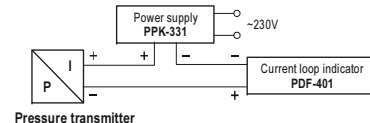


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WIRING OF 2-WIRE PRESSURE TRANSMITTERS

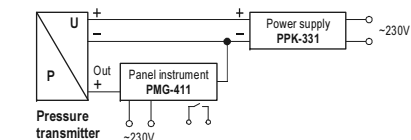


Pressure transmitter



Pressure transmitter

WIRING OF 3-WIRE PRESSURE TRANSMITTERS



Pressure transmitter

5. MAINTENANCE AND REPAIR

The unit does not require routine maintenance, however the probe may need occasional cleaning to remove surface deposits. Repairs will be performed at Manufacturer's premises. Units returned for repair should be cleaned or disinfected by the customer.

6. STORAGE CONDITIONS

Ambient temperature: -40 °C ...+85 °C
Relative humidity: max. 98 %

7. WARRANTY

NIVELCO provides warranty of 3 (three) years in compliance with details described in the Warranty Card.

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