APPLICATION

The NIPRESS DR is a relative and NIPRESS DE an absolute pressure transmitter.

NIPRESS transmitters are applicable to normal and corrosive gases, fumes and liquids of almost any viscosity. It is not suggested to use directly with mediums tending to sedimentation, crystallisation or stiffening. Design of the transmitter, its overload capability and wide range of temperature, makes it available for the most different applications of the industry.

TECHNICAL DATA

Range	Pressure absolute: 400 bara, pressure gauge 0,3400 barg,
Overload capability	1,5x the range, 1,5 bar for range below 1 (for static pressure only!)
Material of the wetted parts	Diaphragm: Ceramic Al2O3
	Diaphragm seal: in accordance with the order codes
	Process connection: stainless steel (DIN 1.4541)
Temperature:	Medium: -20°C +100°C, Ambient: -20°C+80°C
Accuracy:	\pm 0,25% at 20°C; \pm 0,5% for units below the range of 1 bar
Temperature coefficient	max 0,2% / 10°C; max 0,35% / 10°C for units below the range of 1 bar
Power supply coefficient	< 20 ms
Output	Two-wire 4 20 mA
Power supply	12 30 V DC
Maximum load resistance	U (V) – 12 V
R _{max} (Ohm)	0,02 A
Process connection	In accordance with the order code, sealing MSZ EN 837-1:
Electric connection	DIN 43650-A connector, with Pg 11 cable gland
Ingress Protection	IP 65
Electric protection	Class III (SELV)
Breakdown strength	90 V
Shock resistance	20 g
Mass (kg)	~ 0,3 depending on the process connection

ACCESORIES

1 pieceUser's Manual 1 pieceWarranty sheet 1 pieceDIN 43650-A connector and sealing plate

INSTALLATION

Due to its small size and weight NIPRESS DE and DR units can directly be installed on pipes, tanks machines without mounting devices. In accordance with the general practice for installation of such units, the use of a closing armature is recommended. This provides a chance for possible replacement of the transmitter during operation. A simple ball valve will be suitable for small pressures. Over 6 barg a three-way blowoff valve can be recommended. For measuring the 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.

MOUNTING

For mounting and dismounting an open end wrench with SW 32 has to be used. The cylindrical casing of the transmitter must not be gripped by pipe-wrench. The cable terminal in the electrical connector 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 has 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.

WIRING

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NIVELCO units

Power supply PPK231

Panel instrument

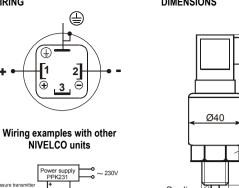
PMM312

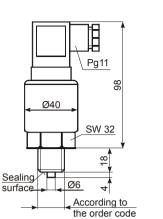
E 3

Panel instrument PDM120

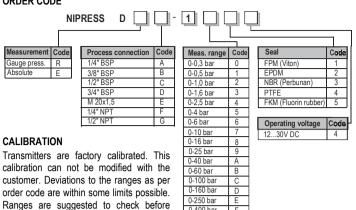
--°~ 230∨

DIMENSIONS





ORDER CODE



0-400 bar

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MAINTENANCE, REPAIRS

installation.

The transmitter does not require regular maintenance. All repairs will be carried out at the manufacturer' premises.

STORAGE CONDITIONS

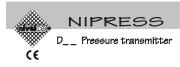
Temperature range: -25°C ... +55 °C Relative humidity: maximum 96%

WARRANTY

All Nivelco products are warranted free of defects in materials or workmanship for a period of two years from the date of purchase.

Repairs under guarantee are carried out at the Manufacturer's premises. Models returned to the manufacturer will not be handled unless they are cleaned and disinfected The Purchaser is liable for costs of dismantling and re-installation as well as transport costs.

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USER'S MANUAL



Manufacturer

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