



PRESSURE TRANSDUCERS SERIES NPC

Pressure transducers of NPC series are basic transducers made by Peltron to measure relative (NPCG) and absolute (NPCA) pressure of gases and liquids both neutral and chemical aggressive within span from 0,5 up to 800 bar.

CHARACTERISTIC

- High accuracy and reliability
- High temperature accuracy
- Ceramic diaphragm
- High performance

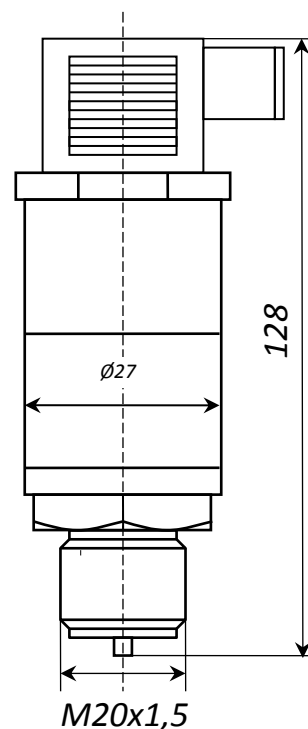
CONSTRUCTION

The series is built of piezo-resistive sensor in thin film technology on Al₂O₃ diaphragm. Electronic elements convert sensor' signal to standard analog signal used in industry.

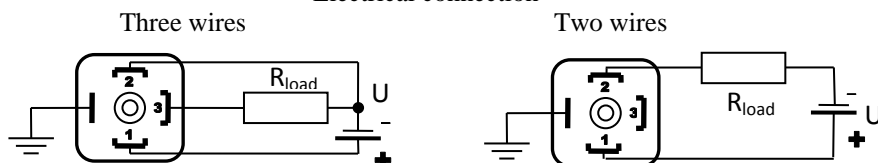
TECHNICAL DATA

SMR [bar] <small>(standard measure range)</small>	0,5	1	2	5	10	20	50	100	200	400	600	800
Overloading [bar]	1	2	4	10	15	35	100	150	350	500	750	1000
Max safe pressure [bar]	2	3	6	12	20	50	120	200	500	650	950	1250

1. Power supply [VDC]	<ul style="list-style-type: none"> • 15÷30 for 0÷10V <small>(three wires)</small> • 10÷36 for 4÷20mA <small>(two wires)</small>
2. Output signals	<ul style="list-style-type: none"> • 4÷20mA $R_{load} \leq (U - 10) V / 0,02 A$ • 0÷10V $R_{load} \geq 10 k\Omega$
3. Accuracy	≤ 0,5 % MR
4. LTA <small>(Long term accuracy)</small>	≤ 0,5 % MR
5. Temperature ranges [°C]	<ul style="list-style-type: none"> • ambient -20 ÷ 80 • medium -30 ÷ 130 • storage -30 ÷ 80
6. TCR <small>(temperature compensation range)</small>	0 ÷ 80°C
7. Accuracy within TCR	• ≤ 0,04% MR / 10°C
8. Enclosure protection	<ul style="list-style-type: none"> • IP65 • IP68 cable
9. Pressure connectors	<ul style="list-style-type: none"> • G¹/₄" , G¹/₂" • M20x1,5 • others
10. Electrical connectors	DIN43650, M16, cable
11. Materials	<ul style="list-style-type: none"> • diaphragm - Al₂O₃. • case - 316 • pressure connectors - 316
12. Mass	350 g



Electrical connection



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