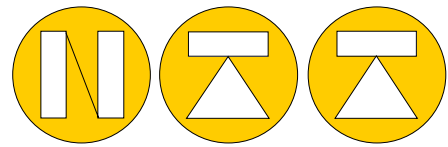
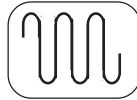


Pressure Transducers Type TP14

TP14/402 REV.01.11.04/PM70

FOR HIGH DYNAMIC STRESS



NORDIC TRANSDUCER



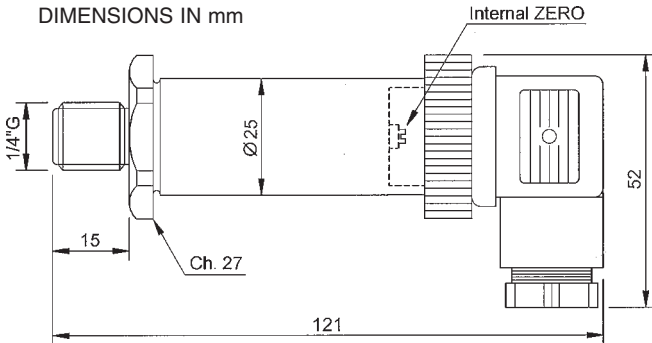
**RELATIVE FROM 0.5 ... 20 BAR
ABSOLUTE FROM 50 ... 2000 BAR**

**ELECTROMAGNETIC COMPATIBILITY TEST
REFERENCES NORMS:**

EN50081-1 AND EN50082-1

Accuracy < +/- 0.10%

(option +/- 0.05% with MILL connector)



SPECIFICATIONS:

TEMPERATURE EFFECT PER 10°C

- a) on zero <math>< \pm 0.005\%</math>
- b) on sensitivity <math>< \pm 0.005\%</math>

NOMINAL SENSITIVITY

4..20mA (2 or 3 wires)
0..5V, 0...10V

SUPPLY VOLTAGE (10V = 15-24V) 12-24V

SUPPLY VOLTAGE Max. 28V

MAX. ELECTRICAL INPUT:

- a) 2 wires 20mA
- b) 3 wires 30mA

LOAD RESISTOR:

- a) tension min. 2k ohm
- b) current from 0 to 470 ohm

INSULATION RESISTOR 10 Gohm

ZERO BALACING $\pm 10\%$ adj.

RESPONSE FREQUENCY from 2.5 to 5kHz

MECHANICAL LIMIT VALUES RELATED TO NOMINAL PRESSURE

- a) service pressure 100%
- b) max. permissible pressure 150%
- c) breaking pressure >300%
- d) high dynamic pressure 75%

REFERENCE TEMPERATURE +23°C

SERVICE TEMPERATURE -10 to +70°C

STORAGE TEMPERATURE -20 to +80°C

CONNECTIONS 3 WIRE 2 WIRE



- | | |
|------------------|-----------|
| 1 SUPPLY+ | 1 SUPPLY+ |
| 2 0 VOLT/SIGNAL- | 2 SIGNAL- |
| 3 SIGNAL + | 3 NON |
| 4 EARTH * | 4 EARTH * |

* SHIELD connected to pressure transducer.

The sensitive part of these pressure transducers is manufactured from 17-4 pH tensile steel with very good mechanical parameters both for dynamic stresses, chemical and metallographic analysis.

The monolithic execution being free from any assembling with seal rings, joints and weldings, guarantees high stability to the measuring element with hysteresis and zero drift negligible in the long run.

The end of the transducer is resin capsulated and wholly micro-plasma welded, to guarantee top sealing and make it insensitive against any sort of vibration.

LINEARITY & HYSTERESIS <math>< \pm 0.10\%</math>

RELATIVE PRESSURE (R)

0.5 -1 - 2.5 - 5 -10 - 20 bar

ABSOLUTE PRESSURE (A)

50 - 100 - 250 - 500 - 700 - 1000 - 1500 - 2000 bar

STANDARD COUPLING 1/4" BSP MALE

1000 to 2000 bar 1/2" BSP MALE

TIGHTENING WRENCH 27mm

TIGHTENING TORQUE 28Nm

PROTECTION CLASS (DIN 40050) IP65

SENSOR MATERIAL INOX 17-4pH

ELECTRICAL CONNECTION DIN 43650 reduced

OPTIONS:

RELATIVE CABLE 3m

PROTECTION TO IP68 (DIN 40050)

PVC CABLE 5m, with MIL4M connector

(MILL4M with 0.05% option !)

VACUUM (V) RANGE: -1.0,-1.+1,-1..+2.5,-1.+5 bar

1 BAR = 14.695 PSI

Nordic Transducer

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