

Description

ND-40 pressure transducers are ideal for air conditioning and refrigeration system applications where reliability and precision in the long time are fundamental.

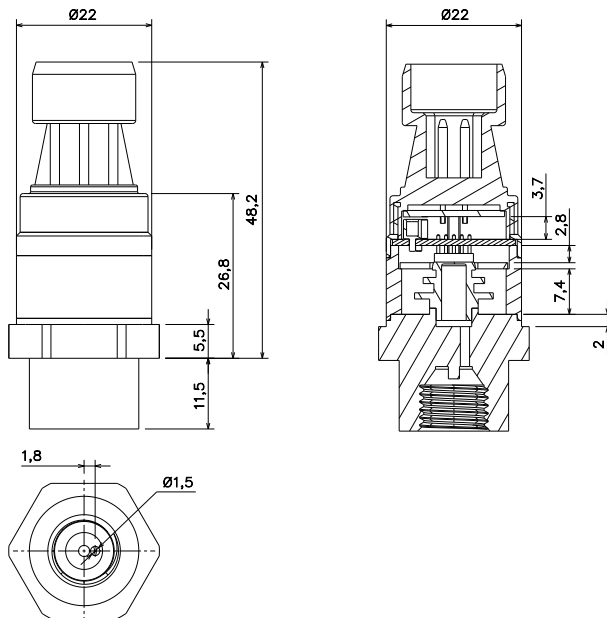
The sensitive element in metal material guarantees an excellent resistance to many fluids and gases.

The ND-40 series pressure transducers are characterized by high repeatability and reduced hysteresis errors (typically less than 0.03% of full scale).

The accuracy of the instrument remains guaranteed even after millions of measurement cycles.

This product is therefore virtually free of measurement drifts.

The ND-40 series offers proven reliability at a competitive price.



Features

Large-scale temperature compensation (-40 ... +125 °C)

Accuracy $\pm 0.5\%$ F.S.

Linear and amplified output signal

Protection from EMI and RFI

Proportional output signal (0.5 ... 4.5 V ratio - Other possibility)

Application

Automotive

Heating

Air conditioning

Refrigeration (HVACR)

Technical features

Accuracy: $\pm 0.5\%$ F.S.

Hysteresis and Repeatability: $\pm 0.1\%$ F.S.

Working temperature: -40 °C ... +125 °C

Compensated Temp. Range: -20 °C to 80 °C

Response time: 2mS

Work cycles: 5 millions cycles

Vibration proof: 200m/s² (10 ~ 2000Hz)

Weight: 45g

Process connection: 7/16-18 UNF

Electrical features

Supply voltage: 5V DC ± 0.25 V DC (Other on request)

Output signals: 0.5 ~ 4.5 V (Other on request)

Overvoltage protection: 16 V DC

Reverse voltage protection: -14 V DC

Short-circuit protection: Yes

Withstand voltage: 500V AC (1 minute between case and all terminals tied)

Insulation resistance: Greater than 100M Ω (20V DC between case and all terminal tied)

Options

Process connections available

Pressure ranges available

Housing material

Pressure range

Relative pressure: 0 ~ 500 psi (other on request)

Overpressure: 2x F.S.

Burst pressure: 10x F.S.

Construction features

Body material: AISI 304

Wetted Port material: AISI 630

Connection: Metri-Pack (Packard #12065287)

Enclosure: IP67

Ordering information

Pressure range / Process connection / Output signal / Electrical connection / Options