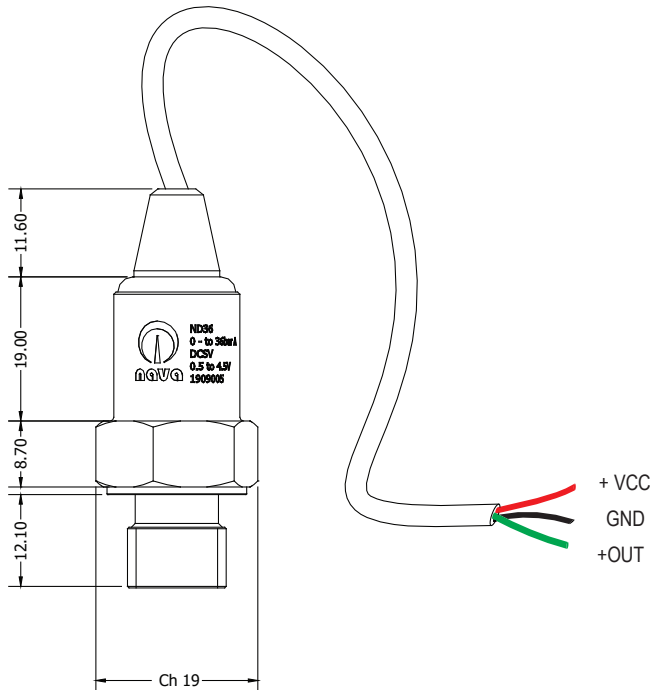


Description

ND-36 pressure transducers are designed for pressure measurements in automotive, refrigeration, air conditioning, industrial sector and compressed gas fields. They are characterized by high repeatability and reduced hysteresis errors (less than 0.3% of the 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 body entirely made of AISI 303 stainless steel fully welded in all of its components, absolute pressure reading, piezo resistive sensor and components hermetically sealed electronics are the main features of the ND36 series.



Features

- Gaseous and liquid fluids
- Large-scale temperature compensation (-40 ... +125 °C)
- Linear and amplified output signal
- Competitive price

Applications

- Automotive
- Heating, Ventilation, Air-conditioning and refrigeration (HVACR)
- Pneumatic system
- Hydraulic system

Technical features

Accuracy: $\pm 0.25\%$ F.S. Max
Total accuracy: $\pm 1\%$ F.S. Max (0-50°)
 (Linearity, Hysteresis, Repeatability, Calibration)
Stability: $\pm 0.20\%$
Long Term Stability: $\pm 0.3\%$ f.s. for year
Working temperature: -10 °C ... +50 °C
Response time: <5 ms (0 - 99%)
Vibration / Shock: 10 g, 5...2000 Hz
Pressure endurance: 5 million pressure cycles 0...100 %FS

Constructive characteristics

Material in media contact: Stainless steel AISI 303
Housing Material: Stainless steel AISI 303
Process connection: 1/4" G
Protection class: IP 67
Type: Cable connection
Weight: 63 g (depending on pressure and electrical cable)
Gasket: Viton

Electrical features

Supply voltage: 5V ± 0.5 VDC
Output signal: 0.5 ... 4.5 V ratiometric
Load: > 5k Ω
Compensated temperature: -40 °C ... +125 °C
Output voltage protection: ± 40 VDC
Protection against short circuit: Yes
Reverse Polarity and Overvoltage Protection: ± 40 VDC
Electromagnetic compatibility: CE conformity
 EN 61000-6-2
 EN 61000-6-3
 EN 61326-2-3

Pressure ranges

Absolute pressure: 0 - 36 bar
Overpressure: 2X pressure range
Burst pressure: 4X pressure range

Options

Connections to the process available on request
 Pressure ranges available on request
 Housing material: AISI 304

Ordering information

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