

PDCR 2200 Series

350 Ohm Bridge Pressure Transducer

- 350 ohm bridge
- Low thermal effects
- High accuracy
- Compatible with hostile fluids
- Choice of electrical & pressure connections
- OEM versions available



The PDCR 2200 Series has been developed to give a modern state of the art replacement for the metal foil, 350 ohm bridge transducers.

These transducers utilize "heavy doped" silicon technology which brings together the advantages of silicon micromachined diaphragms and the low thermal effects achievable by predominantly resistive bridge technology.

An all welded construction of 316L stainless steel with Hastelloy C276 isolation diaphragm ensures excellent media compatibility and rugged construction for a wide range of industrial applications.

A variety of pressure fittings and electrical connections are offered to allow tailoring of the transducer to specific requirements.

Especially customized versions are available with mechanical and electrical characteristics modified to meet specific requirements.

Typical applications include, engine test, gas flow, computers, hydraulic and pneumatic control systems.

PDCR 2200 Series



350 Ohm Bridge Pressure Transducer

STANDARD SPECIFICATION

Operating Pressure Ranges

10, 15, 25, 30, 50, 100, 150, 200, 250, 500, 1000, and 1500 psig or absolute

Other pressure units can be specified for example: kPa, mH₂O, bar

Overpressure

The rated pressure can be exceeded by the following causing negligible calibration change.

10 psi to 1500 psi: 6X range up to 3000 psi maximum

Pressure Media

Fluids compatible with stainless steel 316L and Hastelloy C276.

Alternative materials are also available.

Excitation Voltage

10 VDC
Output ratiometric

Output Voltage

30 mV at 10 V excitation
Output impedance 350 ohms nominal

Common Mode Voltage

$\frac{V \text{ supply}}{2} \pm 0.5\%$ of supply voltage

Resolution

Infinite

Accuracy (Nonlinearity, Hysteresis and Repeatability)

±0.1% BSL for all ranges

Zero Offset and Span Setting

±3% full scale

Long Term Stability

Less than 0.1% per year

Operating Temperature Ranges

-65 to +255°F

Temperature Effects

±0.5% FS TEB -5° to +175°F
±1.0% FS TEB -65° to +255°F

Higher temperature ranges available.

Improved Performance

Transducers with improved accuracy for special applications can be supplied.

For more detailed information, refer to manufacturer.

Weight

4.5 oz. nominal

Electrical Connection

3 ft. 4 core shielded cable or bayonet connector

See ordering information and installation drawing for details.

Pressure Connection

1/4 NPT, male or female
7/16-20 UNJF to MS33656-4
Others available on request.

ORDERING INFORMATION

Please state the following:

(1) Type number

PDCR 22XX

- 1 -5° to +175°F
- 2 -65° to +255°F

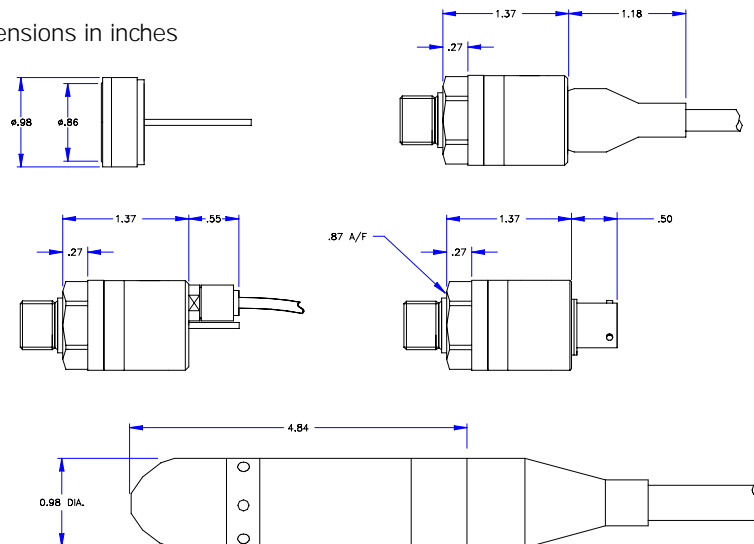
- 1 Integral cable assembly (IP63)
- 2 Teflon cable assembly
- 3 Submersible cable assembly
- 6 MIL-C-26482
- 6 pin bayonet

Continuing development sometimes necessitates specification changes without notice.

Druck is an ISO 9001 registered company



INSTALLATION DRAWINGS: Dimensions in inches



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