Features

- Accuracy: ±0.004 inHg (±0.15 mbar) absolute
- Ranges to 103 inHg (3.5 bar) absolute
- Six digit resolution LCD display
- Multiple pressure scales and aeronautical units
- Alkaline or rechargeable batteries
- Lightweight hand-held rugged design
- RS232 output

The DPI 740 is a portable battery powered precision barometer, providing outstanding capabilities in a hand held package. The fundamental sensor technology employed within this instrument is the Druck resonant pressure transducer (RPT). This vibrating element sensor not only provides accuracies of ± 0.004 inHg (± 0.15 mbar) but equally important has a calibration stability of better than 100 ppm per year. The DP 740 is widely used in laboratory and remote for applications for precision pressure reference.

DPI 740

Druck Portakie

Precision Borometer

DPI 740 is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name_GE Industrial, Sensing.





DPI 740 Specifications

Pressure Measurement

Operating Ranges

- 22 to 34 inHg (750 to 1150 mbar) absolute
- 1 to 38 inHg (35 to 1300 mbar) absolute
- 1 to 77 InHg (35 to 2600 mbar) absolute
- 1 to 103 inHg (35 to 3500 mbar) absolute

Maximum Safe Working Pressure

118 inHg (4000 mbar) absolute

Pressure Media

- Compatible with non-corrosive gases
- Insensitive to media density

Readout and Display

999999 capability LCD digits 0.54 in (13.6 mm) additional 16 text characters.

Display Overload

Instrument capable of nominal 110% full sedie each range. Above this, error are will sh.

Resolution

0.0003 inHa (0.01 mbar

Response

2 readings per second nomination digital display

Operating Modes

A) Local pressure (OFE)

B) Sea level pressure (OFF) from user set height

C) Altitude above user set datum

Process Features

Maximum/Minimum, tare and programmable filter available in all operating modes.

Pressure Units

24 pressure units plus altitude in feet (ft) or meters (m)

Performance

Accuracy

±0.02% FS

For all pressure ranges includes:

Combined non-linearity, hysteresis, repeatability, and temperature effects over 1,5°F to 120°F (-10°C to 50°C).

Optional enhanced barometric accuracy available (see Option A).

Stability

Better than 100 pm be arriver

Temperature Range

• Operating 15°F to 10°C to 50°C (-10°C to 50°C)

Safety

- Electrical and mechanical safetu: EN61010
- EMC emissions: EN50081-1
- EMC immunity: EN50082-1

Position Effect

Negligible

Power Supply

Three each 1.5 V alkaline AA batteries for 20 hours nominal continuous operation. Programmable power down prolongs battery life. Battery low indicated by display symbol. Optional rechargeable NiCad batteries and external power adapter/charger unit available (see Option B).

Communication Interface

RS232 via six-way LEMO socket (see Option C)

Physical

Pressure Connection

Accepts 1/4 in OD / 5/32 in ID tubing (6 mm OD / 4 mm ID)

Weight

1.1 lb (0.5 kg) nominal

DPI 740 Specifications

Dimensions

7.5 in \times 3.5 in \times 1.4 in (190 mm \times 90 mm \times 36 mm) nominal

Options

(A) Enhanced Barometric Accuracy Version

An improved accuracy to ± 0.004 inHg (± 0.15 mbar) can be provided over 50°F to 86°F (10°C to 30°C).

(B) Rechargeable Batteries

NiMh batteries and external universal recharger unit can be supplied to replace the standard alkaline batteries.

(C) Adapter Lead

For RS232 output, an adapter lead connecting six-pin LEMO to standard nine-way D type socket is available

(D) Rigid Transit Case

For storage of instrument, accessories and options

Supplied As Standard

Handbook, calibration certificate and fabric carrying case supplied.

Calibration Standards

Instruments manufacture by GF are calibrated against precision pressure calibration exampment which is traceable to Internation Standards

Related Products

Druck manufactures a comprehensive range of pressure indicators, controllers dead weight testers, calibrators, transducers and transmitters. The range of portable calibrators also cover temperature and electrical parameters. Please rever to Druck for further information and others.

Ordering Information

Place state the following: 11 Tupe number DPI 740

Pressure range

√(3) Options







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