

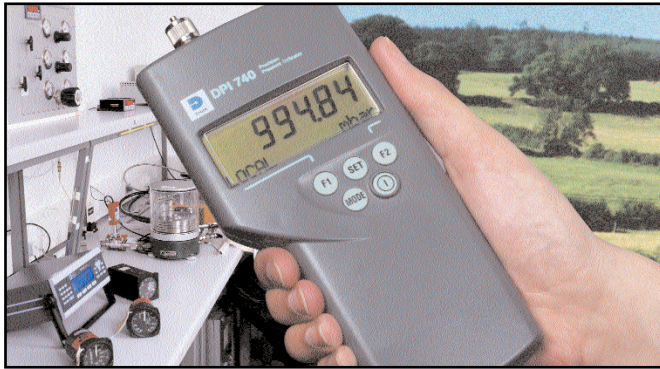
DPI 740

Portable Precision Pressure Indicator/Barometer

- Pressure ranges up to 3.5 bar absolute
- 0.15mbar barometric accuracy
- Stability better than 100 ppm per annum
- Multiple pressure and altitude scales
- Standard RS232 interface
- Rugged, lightweight handheld design



Portable Precision Pressure Indicator/Barometer



The Druck DPI 740 is a battery powered pressure indicator which provides many useful features within a rugged hand-held package. Particularly useful as a barometer, it features the Druck resonant silicon pressure transducer (RPT) with barometric accuracy to 0.15mbar over 10 to 30PC. Long term calibration stability is also better than 100ppm per annum. The DPI 740 can therefore be confidently used in laboratory and remote field applications as a first class reference device.

STANDARD SPECIFICATIONS

Pressure Measurement

Operating Pressure Ranges

750 - 1150mbar absolute (barometric)
Alternative ranges also available:-
35 - 1300mbar absolute
35 - 2600mbar absolute
35 - 3500mbar absolute

Maximum Safe Working Pressure

4000mbar absolute.

Pressure Media

Non-corrosive dry gases only.

Readout and Display

999999 capability LCD with 16 text characters.

Display Overload

Overrange 110% FS.

Resolution

0.01mbar.

Response

2 readings per second.

Operating Modes

- Local pressure (QFE)
- Sea level pressure (QFF) from user set height
- Altitude above sea level.

Process Features

Maximum/minimum value, tare and programmable filter.

Pressure Units

24 units plus altitude in metres(m) or feet(ft).

Performance

Accuracy

Standard $\pm 0.02\%$ F.S. combined non-linearity, hysteresis, repeatability and temperature effects over -10° to 50°C .
Optional enhanced barometric accuracy available (see option A).

Stability

Better than 100 ppm (0.01% F.S.) per annum.

Temperature Range

Operating: -10° to 50°C
Storage: -40° to 70°C

Safety

Electrical and mechanical safety: EN61010
EMC Emission: EN50081-1
EMC Immunity: EN50082-1
Certification: CE marked.

Position Effect

Negligible.

Electrical

Power Supply

3 x 1.5V alkaline AA cells for 20 hours nominal continuous operation.
Auto power off and battery low indicator.

Communications Interface

RS232 serial interface (optional adaptor lead available).

Physical

Pressure Connection

6mm O/D with 4mm I/D hose fitting standard.

Weight

500g nominal.

Dimensions

190mm x 90mm x 36mm.

OPTIONS

(A) Enhanced Barometric Accuracy (750 - 1150 mbar)

$\pm 0.15\text{mbar}$ can be provided over 10° to 30°C operation.

(B) Rechargeable Batteries

Ni-Cad batteries and charger supplied, instead of the standard dry cells.

(C) Adaptor Lead

2m RS232 interface cable with standard 9-way D type socket.

(D) Transit Case

A rigid transit case to house DPI 740 and all product accessories.

SUPPLIED AS STANDARD

Handbook, calibration certificate and carrying case are supplied.

CALIBRATION STANDARDS

Instruments manufactured by Druck Limited are calibrated against precision pressure calibration equipment which is traceable to International Standards.

RELATED PRODUCTS

Druck manufacture a wide range of pressure sensors, indicators, calibrators, controllers, Air Data Test Systems and deadweight testers. The range of portable calibrators also covers temperature and electrical parameters.

Please refer to Druck for further information and datasheets.

ORDERING INFORMATION

Please state the following:-

- (1) Type number DPI 740
- (2) Operating pressure range
- (3) Options, if required.

Continuing development sometimes necessitates specification changes without notice.

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