

# GE Sensing

## Features

- Accuracy:  $\pm 0.004$  inHg ( $\pm 0.15$  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  $\pm 0.004$  inHg ( $\pm 0.15$  mbar) but equally important has a calibration stability of better than 100 ppm per year. The DPI 740 is widely used in laboratory and remote field applications for precision pressure reference.



# DPI 740

## Druck Portable Precision Barometer

DPI 740 is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name—GE Sensing.



# DPI 740 Specifications

## Pressure Measurement

### Operating Ranges

- 22 to 34 inHg (750 to 1150 mbar) absolute
- 1 to 38 inHg (35 to 1310 mbar) absolute
- 1 to 77 inHg (35 to 2620 mbar) absolute
- 1 to 103 inHg (35 to 3500 mbar) absolute

### Maximum Safe Working Pressure

130 inHg (4375 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) high with additional 16 text characters.

### Display Overload

Instrument capable of nominal 110% full scale (FS) for each range. Above this, error code will flash.

### Resolution

0.0003 inHg (0.01 mbar)

### Response

2 readings per second nominal on digital display

### Operating Modes

- A) Local pressure (QFE)
- B) Sea level pressure (QFF) 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 15°F to 120°F (-10°C to 50°C).*

Optional enhanced barometric accuracy available (see Option A).

### Stability

Better than 100 ppm per annum.

### Temperature Range

- Operating: 15°F to 120°F (-10°C to 50°C)
- Storage: -40°F to 160°F (-40°C to 70°C)

### Safety

- Electrical and mechanical safety: EN61010
- EMC emissions: EN50081-1
- EMC immunity: EN50082-1
- Certification: CE Marked

### 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

### Dimensions

7.5 in x 3.5 in x 1.4 in (190 mm x 90 mm x 36 mm) nominal

# DPI 740 Specifications

## Options

- (A) **Enhanced Barometric Accuracy Version**  
An improved accuracy to  $\pm 0.004$  inHg ( $\pm 0.15$  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 manufactured by GE are calibrated against precision pressure calibration equipment which is traceable to International 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 covers temperature and electrical parameters. Please refer to Druck for further information and data sheets.

## Ordering Information

Please state the following:

- (1) Type number DPI 740
- (2) Pressure range
- (3) Options
- (4) Supporting Services (order as separate items)

## Supporting Services

GE Sensing provides Services to enhance, support and complement the product range. We can provide training, nationally accredited calibration - both initially and at periodic intervals - extended warranty terms, maintenance and rental of portable or laboratory calibrators. Further details can be found in [www.gesensing.com/productservices/service.htm](http://www.gesensing.com/productservices/service.htm)

GE  
Sensing



©2008 GE. All rights reserved.  
920-354B

All specifications are subject to change for product improvement without notice.  
GE® is a registered trademark of General Electric Co. Other company or product names mentioned in this document may be trademarks or registered trademarks of their respective companies, which are not affiliated with GE.



**CORAME** SAS  
MESURE-CONTROLE-AUTOMATISME  
Tél: ROUEN 02 35 59 62 50 / CAEN 02 31 35 76 45  
[www.corame.fr](http://www.corame.fr) [info@corame.fr](mailto:info@corame.fr)