



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) 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