



**GE Druck**

## **DPI 103 Series**

### Digital Test Gauges

The GE Druck **DPI 103** is a robust, highly reliable and simple to use digital test gauge suitable for both wet and aggressive pressure media.

An accurate and convenient replacement to standard analogue test gauges, it is an ideal master test gauge for use with the GE Druck range of pneumatic and hydraulic hand pumps.

- $\pm 0.2\%$  FS Accuracy
- Ideal replacement for analogue test gauges
- Suitable for wet and aggressive media
- Ranges from -1 bar to 1000 bar
- Easy to read  $4\frac{1}{2}$  digit LCD display
- 6 selectable pressure units



# DPI 103 Series

## Digital Test Gauge

### PRESSURE INSTRUMENTATION

The DPI 103 Digital Test Gauge offers an accurate and convenient replacement to standard analogue test gauges. Available in five standard ranges, the DPI 103 can display one of six user selectable pressure units. A compact instrument, the DPI 103 is ideally suited as a master test gauge when used in conjunction with GE Druck's PV range of pneumatic and hydraulic hand pump pressure generators, enabling a simplified and efficient calibration solution.

The measuring element of the gauge is a fully isolated piezo resistive pressure transducer chosen for its stability, high accuracy, and reliability. It is well suited for both static and dynamic applications and is capable of capturing transient pressure pulses with durations of only microseconds.

### STANDARD SPECIFICATION

#### Accuracy

0.2% FS standard (<1% FS in over-range)

#### Pressure ranges

-1 to 3 bar, -1 to 30 bar, 0 to 300 bar, 0 to 700 bar, 0 to 1000 bar

#### Selectable pressure units

hPa/mbar, bar, kp/cm<sup>2</sup>, psi, kPa, MPa

#### Resolution

4½ digits

Range	Resolution	Overrange	Overpressure
-1 to 3 bar	1 mbar	3.5 bar	10 bar
-1 to 30 bar	10 mbar	35 bar	60 bar
0 to 300 bar	100 mbar	400 bar	400 bar
0 to 700 bar	200 mbar	700 bar	700 bar
0 to 1000 bar	200 mbar	1000 bar	1000 bar

#### Display

Easy to read LCD display

#### Peak Value

Measured 5000 times per second

#### Display Update

Twice per second,  
Max. & Min. read facility

#### Battery

3V type CR 2430 Simple battery replacement

#### Battery Life

1400 hours continuous operation in Mano-Mode  
180 hours continuous operation in Peak-Mode  
"BATT LOW" warning on display

#### Pressure Port

¼ BSP male / ¼ NPT male (via adaptor)

#### Protection

IP65

#### Materials

All stainless steel (316) welded pressure cavity for wet aggressive media

#### Switch off

By key or auto switch off after 15 minutes

#### Operating Temperature

0 to 50°

#### Storage Temperature

-30 to 80°C

#### Compensated Temperature Range

0 to 50°C

#### Dimensions

76 DIA x 118 x 42mm

#### Weight

210g approximately

### INSTRUMENTATION

#### (A) Hydraulic and pneumatic test kits

##### (A1) PV 411A-P PV 411A Pneumatic test kit

Includes: PV 411A 95% vacuum, 60 bar pneumatic pump, PV hose, adaptors, seal kit and transit case

##### (A2) PV 411A-HP PV 411A Hydraulic test kit

Includes: PV 411A 95% vacuum, 60 bar pneumatic pump, 700 bar hydraulic pump, hydraulic reservoir, PV hose, adaptors, seal kit and transit case

##### (A3) PV 212-HP PV 212 Hydraulic test kit

Includes: PV 212 1000 bar hydraulic pump, HK1-1000 hose, adaptors, seal kit and transit case

##### (A4) PV 211-P PV 211 Pneumatic test kit

Includes: PV 211 pneumatic 25 bar pump, hose, adaptors, seal kit and transit case

##### (A5) PV 210-P PV 210 Low pressure pneumatic test kit

Includes: PV 210 pneumatic 3 bar pump, hose, adaptors, seal kit and transit case

All transit cases are supplied closed cell foam inserts with cut-outs to accommodate specific GE Druck reference instruments.



For full details on all hand pumps and accessories please refer to the Hand Pump Product Guide. Alternatively contact GE Druck

#### (B) UKAS Certification

#### (C) NPL Certification

### ORDERING INFORMATION

Please state the following (where applicable):-

1. Model: DPI 103
2. Pressure range required
3. Options if required. Please order as separate items.

**Continuing development sometimes necessitates specification changes without notice.**