

P100NEW

Digital Pressure Test Gauge

Data Sheet



Features

- Pressure Ranges from 100 mbar through 3000 bar
- Accuracy up to 0.05 % FS
- 10 Selectable Pressure Units
- Large 5 digits display resolution with active bar graph
- Maximum, minimum, zero, tare and damping function
- USB connection (Optional)
- Stainless Steel 17-4 PH sensor for high strength and aggressive media

Overview

The P100NEW is an high accuracy digital test gauge which combine precision and functionality in a robust and easy to use unit. The P100NEW Digital test gauge can be supplied stand alone as process indicator or as a kit together with our range of calibration hand pumps to become a cost effective pressure calibrator.

The standard data logging function, USB and wireless communication, make the P100NEW digital test gauge the perfect solution in application where accurate process measurements and data capture is required.

Pressure Test KITS

The P100NEW can be used in conjunction with our PGS range of hand pump to become a power yet cost effective pressure calibration system from -1 to 1000 bar. All our hand pumps are supplied with case, set of BSP or NPT test points adapters and customised foam to take all the accessories and the digital test gauge.



EiUK
PGS40
Hand Pump



EiUK
PGS60
Hand Pump



EiUK
PGS1000
Hand Pump

Specifications

Accuracy

± 0.1% or 0.05 % Full Scale from –1 to 3000 bar @23 C
Accuracy include linearity and hysteresis Compensated temperature range from –10 to 70C, temperature effect with-in compensated range is <0.002%/C

Resolution

5 digits

Range Code	Type	Range (bar)	Range (PSI)	Resolution (bar)
0G1	G	0 to 0.1	0 to 2	0.0001
0G2	G	0 to 0.2	0 to 3	0.0001
0G5	G	0 to 0.5	0 to 7	0.001
1G	G or A	-1 to 1	0 to 15	0.0001
2G5	G or A	-1 to 2.5	0 to 35	0.0001
5G	G or A	-1 to 5	0 to 72	0.0001
10	G or A	-1 to 10	0 to 150	0.001
20	G	-1 to 20	0 to 300	0.001
40	G	-1 to 40	0 to 600	0.001
50	G	-1 to 50	0 to 725	0.001
60	G	-1 to 60	0-870	0.001
100	G	0 to 100	0-1450	0.001
250	G	0 to 250	0-3000	0.01
350	G	0 to 350	0-5000	0.01
500	G	0-350	0-7500	0.01
700	G	0-700	0-10000	0.01
1K	G	0-1000	0-15000	0.1
1K5	G	0-1400	0-25000	0.1
2K	G	0-2000	0-30000	0.1
2K5	G	0-2500	0-36000	0.1
3K	G	0-3000	0-43000	0.1

Each P100NEW is supplied as standard with a traceable calibration certificate and a user manual

Typical Order Code

P100NEW-50G Digital Test Gauge, -1 to 50 bar, G1/2 Pressure Connection

Selectable Pressure unit

mbar, bar, kPa, MPa, psi, kg/cm2, mHg, mmHg, mH2O and mH2O.

Burst Pressure

300% FS

Display

5 Digits, active bar graph. Custom LCD 13mm high

Display update

100 msec

Minimum/Max/Zero function

Minimum and maximum pressure value are displayed on the P100NEW. ZERO function is possible up to 50% of FS

Digital Filter/Damping function

The P100NEW digital test gauge features a programmable digital filter which allow for stable pressure readings even in highly un-stable pressures. This function is particularly suitable when the

Battery (1 year Autonomy)

Non-rechargeable batteries- 2 x 1.5V AAA batteries

General

Case Material

Anodised Aluminium sealed to IP 65

Wetted Parts

Stainless Steel 17-4 PH sensor for high strength and aggressive media

Storage Temperature

-10 to 80C

Dimension

(W)86 x (L)86x (D)39 mm

Total length with sensor fitting 139 mm

European compliance

CE Marked

89/336/CEE-93/68/CEE-72/23/CE,EN61010(2001)

EN61326-1-EN 61326/A1

Pressure Port

G12 Male (Optional G14 Male, 1/2" NPT Male, 1/4" NPT Male)

Options and Accessories

Quick Analyser Light Software (P100NEW-SOFT)

The software allow for real time data transfer via USB (required option), view in graphical and tabular format

UBS communication (P100NEW-USB)

USB.2 digital communication (cable provided) to download stored data or for real time data transfer

Cover (P100NEW-COV)

Impact-resistant silicone cover

