

# P100 Digital Pressure Calibrator



The P100 pressure gauge is a new micro-processor controlled digital pressure gauge which offer high precision, stability and functionality in a compact and robust solution package. The gauge is powered by long life internal Alkaline battery and offer an auto-power off function in order to preserve the battery life. The sensor technology combined with advance designed feature results in an high accurate yet affordable digital pressure gauge. Supply as stand-alone the P100 offer an unbeatable cost effective solution for accurate process monitoring and control. A wide range of hand held pressure pump and kits are available to offer a complete testing solution for maintenance or calibration routine.

## ADVANCE FEATURES

- Programmable filter from 0 to 99 for pulsing pressure readings
- Zero function for zero pressure correction
- Pressure bar graph in addition to the number indication, P100 display pressure on a segment bar for quick estimation of the of the pressure between 0 and 100 % of F.S.
- Selectable pressure unit: mbar, bar, MPa, KG/CM2, psi
- Peak function
- RS232 interface (optional)

## P100-PC Pneumatic Test Kits

Combined vacuum/pneumatic kit for pressure testing, includes

- P100-I indicator, range to be selected up to 50 bar
- PGS-40-OEM pump
- PGS-BSP or PGS-NPT set of adaptor, set of seals
- Pressure hose with 1/4" BSP F adaptor (1 meter)
- Robust ABS transit case with custom foam



## P100-HC Hydraulic Test Kits

Hydraulic test kit for high pressure testing, includes

- P100-I range to be selected up to 1000 bar
- PGS-700-OEM or PGS-1000-OEM pump
- PGS-BSP or PGS-NPT set of adaptor, set of seals
- HTH-1000-1 high pressure hose, 1 meter
- PGS700-A-G 14 adaptor for HTH-1000 hose
- PGS700-TC robust ABS transit case with custom foam



## TECHNICAL SPECIFICATION

Range code	Range	Resolution	Max over pressure
05G	-0.5 to 0.5 bar	0.0001	150% FS
1G	-850mbar to 1 bar	0.0001	150% FS
2.5G	-850mbar to 2.5 bar	0.0005	150% FS
5G	-850mbar to 5 bar	0.0005	150% FS
10G	-850mbar to 10 bar	0.001	150% FS
20G	-850mbar to 20 bar	0.002	150% FS
40G	-850mbar to 40 bar	0.005	150% FS
100G	0 to 100 bar	0.01	150% FS
250G	0 to 250 bar	0.02	150% FS
350G	0 to 350 bar	0.05	150% FS
700G	0 to 700 bar	0.05	150% FS
1KG	0 to 1000 bar	0.1	150% FS
1.5KG	0 to 1500 bar	0.2	150% FS
2KG	0 to 2000 bar	0.5	150% FS

**Accuracy-0.05:** 0.05% FS include linearity and hysteresis

**Temperature range:** 0 to 50°C

**Temperature coefficient:** 0.002 % rdg/°C

**Calibrated temperature:** 23 °C

**Compensated temperature range:** 0 to 50°C

**Pressure media:** all liquid and gas compatible with AISI 316 (non corrosive)

**Wetted part:** SS Inox 17-4 PH

**Pressure unit:** mbar, bar, KG/CM2, KPa, psi

**Pressure connection:** 1/2" BSP male for all ranges

**Storage temperature:** -10 °C to 60°C

**Display:** graphic, custom LCD display, 16 mm height

**Sealing:** IP 65

**Power supply:** 2X AA size alkaline battery (1 year autonomy)

**Physical:** aluminium case, 86X85X44 (P100 only)

**Conformity:** 89/336/CEE-93/68/CEE-72/23/CE, EN61010(2001)-EN61326-1-EN 61326/A1

**Warranty:** 1 year (battery not included)

## How to order your P100 series:

P100I P100 Pressure indicator only

P100PC P100 Pneumatic pressure kit

P100HC P100 Hydraulic pressure kit

### Accuracy

0.05 0.05 % FS (includes calibration certificate)

### Pressure range

X = see table range

### RS232 communication port

0 none

1 Installed

### Fittings

Leave blank for P100 head only

NPT set (1/4" BSPM to 1/8", 3/8" 1/2" and 1/4" NPTF)

BSP set (1/4" BSPM to 1/8", 3/8"(F) 1/2" BSPM)

P100PC-0.05-40G-0-NPT Typical order code

Each instruments and kit is supplied with Alkaline battery and instruction manual.