



PCS-P100

Portable Pneumatic Pressure Calibrator

PCS-P100 is Portable pressure calibrator for Pneumatic pressure calibration up to 1000 bar with pressure generation and precise control. An independent pressure calibration system combining electrical signal measuring and loop power to quickly and easily calibrate for a large amount of on-site calibration.

Using Dual-Stage lever type hand pump to generate up to 100 bar and quickly and easily, and then use the built-in volume controller to precisely adjust the pressure with the secondary fine pressure control.

PCS-P100 also has Pressure/vacuum switching valve to generate up to -970 mbar in vacuum mode which has the best degree of a vacuum in its class.

Full-graphic touchscreen display with intuitive menu selection makes it high visibility and operability.

Upper side of PCS-P100 can equipped quick connectors and adaptors for quick and easy to connect UUT.

- Dual-Stage lever type hand pump to generate and control up to 100 bar pneumatic
- Dual-Stage lever type hand pump to generate and control up to -970 mbar for vacuum
- 0.02% F.S Accuracy
- Electrical connection for Transmitter
 - Measure up to ± 15 V, ± 24 mA
 - Power 24 VDC
 - Loop Power
- Pressure switch test, Help functions
- Included carrying case
- Pneumatic Quick adaptor set (Optional)

01 Use

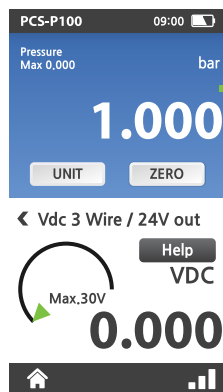
- Potable pressure calibration
- Simple calibration for common calibration lab
- Calibrate pressure gauge for pressure measuring instruments retail business
- Pressure generating and controlling for pressure test lab
- Pressure calibration for laboratory
- Pneumatic high pressure calibration
- Easy & quick calibration for pressure transmitter, analog pressure gauge, digital pressure gauge, pressure switch test



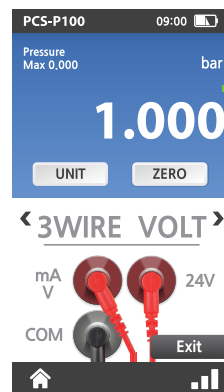
02 Easy calibration task settings (Touch Screen)



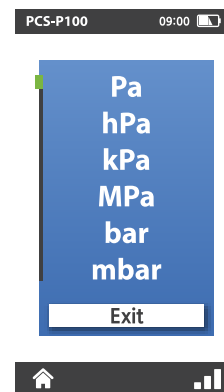
Main Screen



Pressure/Electrical Measurement Screen

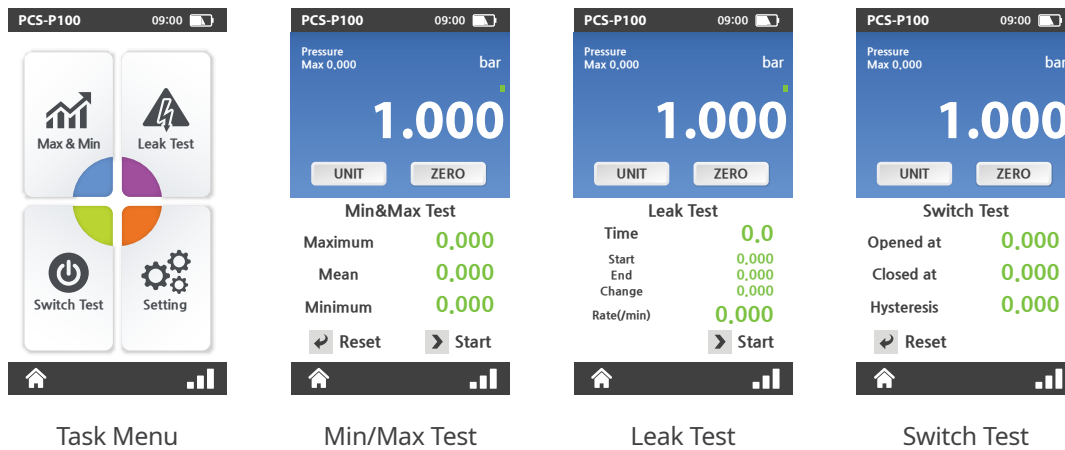


Help Screen
Application connection diagram display function



Pressure Units Selection
Available to select 13ea of pressure units

03 TASK menu (Advanced features)



04 General Specifications

Pressure range	-970 mbar to 2 bar...100 bar
Accuracy	±0.02% F.S
Electronic measurement	±15 V.dc, ±24 mA.dc, Accuracy ±(0.01% of Reading + 1digit), Loop Power
Sensor supply power	Power 24 VDC
Display	Full color touch screen LCD, 110 mm(4.3inch) diagonal. 480 x 272 pixels.
Power	Lithium-ion rechargeable battery, Charger 9V, 6A (use 30 hours on a 5 hours charge)
Operating Temperature Range	0 to 70 °C
Storage Temperature Range	-30 to 80 °C
Temperature Compensated Range	0 to 50 °C
Pressure units	bar, mbar, Pa, hPa, kPa, MPa, kg/cm ² , psi, mmH ₂ O, cmH ₂ O, inH ₂ O, mmHg, inHg, mSW, fSW (mSW and fSW units are applied on a water temperature of 15°C with reference to U.S. Navy Dividing Manual, Revision 7, Table 2-10. Pressure Equivalent.)
Test Port	1/8" BSPP Female
Weight	4.2 kg including batteries
Size	210 mm(W) × 360 mm(D) × 110 mm(H)

05 Ordering Information

Model(PCS-P100_Range) / Description(Portable Pneumatic Pressure Calibrator)

- 2 bar : -970 mbar to 2 bar
- 3.5 bar : -970 mbar to 3.5 bar
- 7 bar : -970 mbar to 7 bar
- 20 bar : -970 mbar to 20 bar
- 35 bar : -970 mbar to 35 bar
- 70 bar : -970 mbar to 70 bar
- 100 bar : -970 mbar to 100 bar

06 Accessories



Carrying case



Rechargeable battery



Battery charger



Test lead set



07 Optional items



Dirt / Moisture Trap
Up to 10 MPa



Pneumatic Quick adaptor set
CA-P Series
(1/8, 1/4, 3/8, 1/2 PT | PF, NPT)



Flexible tubes
FTH Series
(30 cm to 300 cm)



Traceable calibration report with data (KOLAS) pressure



External Pressure Manifold