



PCS-H100

Portable Hydraulic Pressure Calibrator

PCS-H100 is Portable pressure calibrator for Hydraulic 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 lever type hand pump to generate up to 1000 bar and quickly and easily, and then use the built-in volume controller to precisely adjust the pressure with the secondary fine pressure control.

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

Upper side of PCS-H100 can equipped quick connectors and adaptors for quick and easy to connect DUT.

- Lever type hand pump to generate and control up to 1000 bar Hydraulic
- 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
- Hydraulic Quick adaptor set (Optional)

01 Use

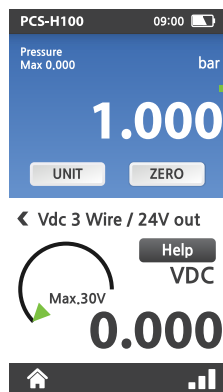
- Potable pressure calibration
- Simple calibration for common calibration lab
- Calibrate pressure gauge for pressure measuring instruments retail business
- Pressure generating and controlling for pressure test lab
- Pressure calibration for laboratory
- Hydraulic high pressure calibration
- Easy &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



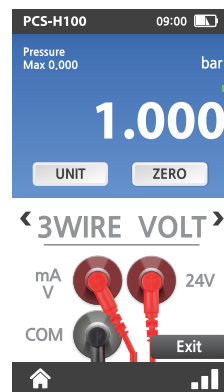
02 Easy calibration task settings (Touch Screen)



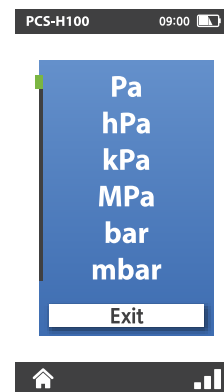
Main Screen



Pressure/Electrical Measurement Screen

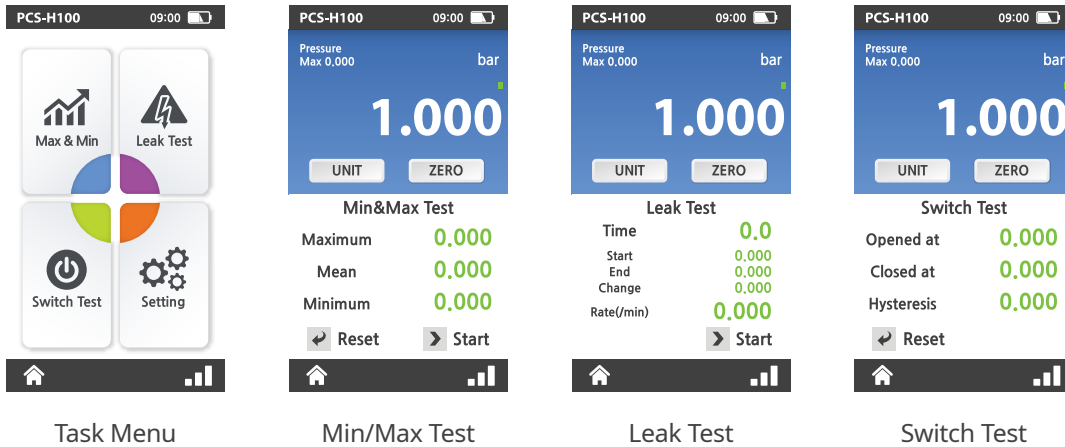


Help Screen
Application connection diagram display function



Pressure Units Selection
Available to select 13ea of pressure units

03 TASK menu (Advanced features)



04 General Specifications

| | |
|-------------------------------|---|
| Pressure range | 0 to 200 bar...1000 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 (5 to 75 °C with water) |
| Storage Temperature Range | -30 to 80 °C (5 to 75 °C with water) |
| Temperature Compensated Range | 0 to 50 °C (5 to 50 °C with water) |
| 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 | 1/4" BSPP Female |
| Weight | 4.2 kg including batteries |
| Size | 210 mm(W) × 360 mm(D) × 110 mm(H) |
| Oil Reserver Volume | 100 cc |
| Media | Water or Mineral Oil |

05 Ordering Information

Model(PCS-H100_Range) / Description(Portable Hydraulic Pressure Calibrator)

| | |
|----------|-------------------|
| 200 bar | 0 bar to 200 bar |
| 350 bar | 0 bar to 350 bar |
| 700 bar | 0 bar to 700 bar |
| 1000 bar | 0 bar to 1000 bar |

06 Accessories



Carrying case



Rechargeable battery



Battery charger



Test lead set



07 Optional items



Hydraulic Quick adaptor set
(up to 2,000bar)
CA-H Series
(1/8, 1/4, 3/8, 1/2 PT | PF, NPT)



Flexible tubes
(up to 630bar)
FT Series
(30 cm to 300 cm)



Traceable calibration report with data (KOLAS)
Pressure



External Pressure Manifold