



# 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  $\pm 15$  V,  $\pm 24$  mA
  - Power 24 VDC
  - Loop Power
- Pressure switch test, Help functions
- Included carrying case
- Hydraulic Quick adaptor set (Optional)
- CE Certificated

### 01 Use

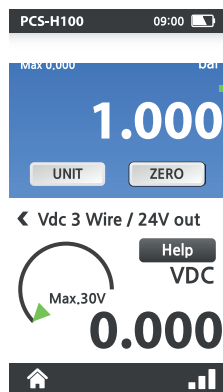
- Portable pressure calibration
- Simple calibration for common calibration lab
- Calibrate pressure gauge for pressure measuring instruments retail business
- Pressure generating and controlling for pressure test lab
- Pressure calibration for laboratory
- Hydraulic high pressure calibration
- Easy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



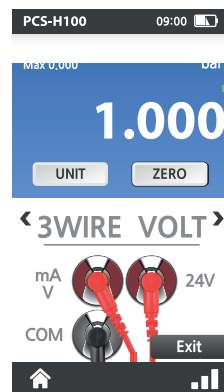
02 Easy calibration task settings (Touch Screen)



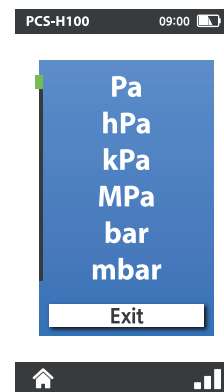
Main Screen



Pressure/Electrical Measurement Screen



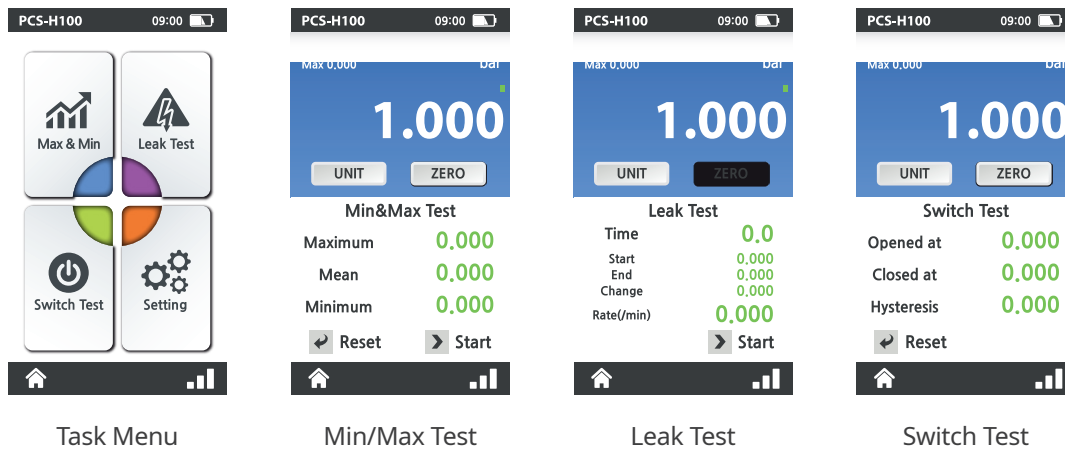
Help Screen  
Application connection diagram display function



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. Resolution ±999999 (Available to select 4 to 6 digits.)
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 75 °C with water)
Pressure units	bar, mbar, Pa, hPa, kPa, MPa, kg/cm <sup>2</sup> , psi, mmH <sub>2</sub> O, cmH <sub>2</sub> O, inH <sub>2</sub> 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" PF 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 / Media)

20 MPa	0 MPa to 20 MPa	W(Water) O(Oil)
35 MPa	0 MPa to 35 MPa	
70 MPa	0 MPa to 70 MPa	
100 MPa	0 MPa to 100 MPa	

## 06 Accessories



Carrying case



Rechargeable battery



Battery charger



Test lead set



## 07 Optional items



Hydraulic Quick adaptor set  
(up to 2000 bar)  
CA-H Series  
( 1/8, 1/4, 3/8, 1/2 PT | PF, NPT)



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



Traceable calibration report with data (KOLAS) Pressure



External Pressure Manifold

