



Redefining Measurement & Calibration Solutions

The Tekneka 690 is a portable pressure calibrator for hydraulic pressure calibration up to 1000 bar that generates pressure and has precision control. It is a independent pressure calibration instrument that combines electrical signal measurement and loop power to quickly and conveniently calibrate for extensive on-site calibration.

It has a lever-type hand pump that can generate and control up to 1000 bar of hydraulic pressure with an accuracy of 0.02% F.S, then use the built-in volume controller to accurately regulate the pressure with the secondary fine pressure control.

The full-graphic touchscreen display, along with an intuitive menu selection, provides excellent visibility and operability. The upper side of the Tekneka 690 is equipped with connectors and adaptors for quick and easy DUT connections.

Electrical connections for Transmitter:

- Measurement up to $\pm 15V$, $\pm 24mA$
- Supply up to $0 \sim 10V$ DC, $0 \sim 24mA$
- Power: 24V DC
- Loop Power

Pressure switch test, help functions

Hydraulic adaptor set (optional)

Applications

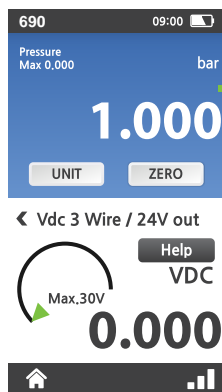
- Calibration of Hydraulic Pressure Transducers and Gauges
- Testing Hydraulic System Components
- Maintenance and Troubleshooting of Hydraulic Equipment
- Pressure Testing in Research and Development
- Quality Assurance in Manufacturing
- Calibration Services



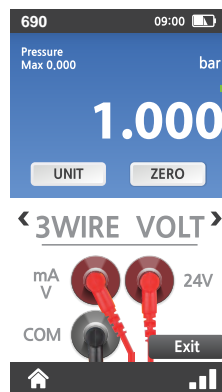
Easy Calibration Task Settings (Touch Screen)



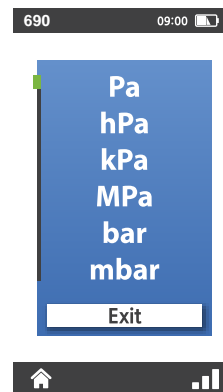
Main Screen



Pressure/Electrical Measurement Screen



Help Screen
Application connection diagram display function



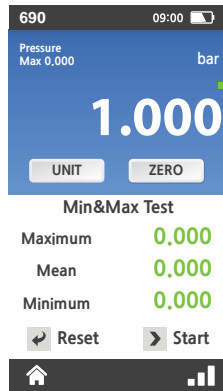
Pressure Units Selection
Available to select 13ea of pressure units

DATASHEET

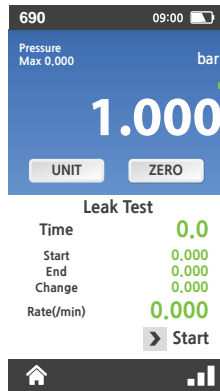
Task Menu (Advanced Features)



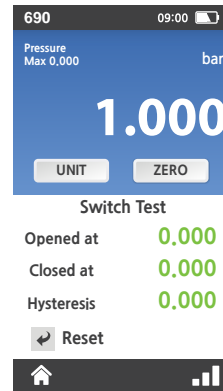
Task Menu



Min/Max Test



Leak Test



Switch Test

General Specifications

Pressure Range	0 to 200 bar...1000 bar
Accuracy	±0.02% F.S
Electrical Measurements	±15V DC, ±24mA DC, Accuracy ± (0.01% of Reading + 1digit), Loop Power
Electrical Supply	0 ~ 10V DC, 0 ~ 24mA, Accuracy ± (0.015% of Reading + 1digit), Loop Power
Sensor Supply Power	Power 24V DC
Display	Full color touch screen LCD, 110mm (4.3") 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, kgf/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" PF Female
Weight	4.2kg including batteries
Size	210mm (W) x 360mm (D) x 110mm (H)
Oil Reserver Volume	100 cc
Media	Water or Mineral Oil

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Ordering Information

Model (690 - Range) / Description (Portable Hydraulic Pressure Calibrator/Media)

200 bar	0 to 200 bar	W (Water) O (Oil)
350 bar	0 to 350 bar	
700 bar	0 to 700 bar	
1000 bar	0 to 1000 bar	

Accessories



Carrying Bag



Rechargeable Battery



Battery Charger



Test Leads Set

Optional Items



Hydraulic Quick Adaptor Set
(up to 2000 bar)
(1/8, 1/4, 3/8, 1/2 PT | PF, NPT)



Flexible Tubes
(30cm to 300cm)



External Pressure
Manifold