



Pressure Calibrator Kit (Pneumatic & Hydraulic)

Application: Ideal for laboratory calibration of vacuum and pressure, this solution integrates a high-precision digital pressure calibrator with a robust comparator pump to deliver a reliable, accurate, and cost-effective calibration setup.

Features

- Integrated Pressure Calibrator + comparator Pump
- Accuracy: $\pm 0.025\%$ of Full Scale
- Pressure Range: -1 to 1000 bar
- 14 Selectable Pressure Units
- Wide Pneumatic & Hydraulic Option
- Electrotechnical Measurements: mA & V
- Loop-Powered Supply with mA Measurement for Transmitter Calibration
- Pressure Switch Test Facility (Opening & Closing Points)
- Auto-OFF Function for Enhanced Battery Life



*pneumatic comparator pump



* Hydraulic comparator pump

*Vacuum: Applicable only pneumatic comparator pumps

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DESCRIPTION

The APCK Series delivers high-accuracy pressure measurement with selectable accuracy up to $\pm 0.025\%$ FS, covering ranges from -1 to 1000 bar. integrated into pneumatic (-0.95 to 35 bar) and hydraulic (0 to 700 bar) test kits. Key features include 14 selectable pressure units, zero, peak hold functions, and high/low peak pressure capture. Electrical measurement capabilities include mA and voltage readings, along with a built-in pressure switch test facility that captures both opening and closing pressures via display hold, Loop-Powered Supply with mA Measurement for Transmitter Calibration. Designed for calibrating pressure gauges, transducers, transmitters and switches, the APCK features a large backlit graphical display, auto-off function for extended battery life, and a feather-touch keypad with a dedicated ZERO key for quick setup offering a complete and versatile pressure calibration solution.

Technical Specifications

Model	Range (bar)	Resolution (bar)	Units	Comparator range
APCK-C-2	-1 to 2	0.0001	bar, psi, Kg/cm ² , KPa, MPa, mmHg, atm, mH ₂ O, inHg, inH ₂ O, ftH ₂ O, cmH ₂ O, mbar, mmH ₂ O	CP-2 (-0.95 to 2 bar)
APCK-C-10	-1 to 10	0.001	bar, psi, Kg/cm ² , KPa, MPa, mmHg, atm, mH ₂ O, inHg, inH ₂ O, ftH ₂ O, cmH ₂ O, mbar	CP-10 (-0.95 to 10 bar)
APCK-C-20	-1 to 20	0.001	bar, psi, Kg/cm ² , KPa, MPa, mmHg, atm, mH ₂ O, inHg, inH ₂ O, ftH ₂ O, cmH ₂ O, mbar	CP-20 (-0.95 to 20 bar)
APCK-C-35	-1 to 35	0.001	bar, psi, Kg/cm ² , KPa, MPa, mmHg, atm, mH ₂ O, inHg, inH ₂ O, ftH ₂ O, cmH ₂ O, mbar	CP-35 (-0.95 to 35 bar)
APCK-C-100	0 to 100	0.01	bar, psi, Kg/cm ² , KPa, MPa, atm, mH ₂ O, inHg, ftH ₂ O	CP-100 (0 to 100 bar)
APCK-C-200	0 to 200	0.01	bar, psi, Kg/cm ² , KPa, MPa, atm, mH ₂ O, inHg, ftH ₂ O	CP-200 (0 to 200)
APCK-C-400	0 to 400	0.01	bar, psi, Kg/cm ² , KPa, MPa, atm, mH ₂ O, inHg, ftH ₂ O	CP-400 (0 to 400)
APCK-C-700	0 to 700	0.01	bar, psi, Kg/cm ² , KPa, MPa, atm, mH ₂ O, inHg, ftH ₂ O	CP-700 (0 to 700)

* Accuracy specifications include effect of non-linearity, hysteresis and repeatability at 23 \pm 5°C



Measurements:

Facility	Range	Resolution	Accuracy
mA	0 to 50 mA	0.001 mA	±0.025% of Reading + 10 µA
Volts	0 to 30 V	0.001 V	±0.025% of Reading + 3 mV

Note 1: Accuracy specifications include effect of non-linearity, hysteresis and repeatability at 23±5°C.
Note 2: Active loop - Load @ 800Ω

Standard delivery

Each APCK-C is supplied with

1. APCK Digital Calibrator.
2. Comparator pump (Pneumatic or Hydraulic).
3. Test Lead (2 wire): 2nos.
4. Charger: 1no.
5. 1/2", 1/8", 3/8"-each 1nos BSP(F) end connection adapter.
6. 1/4" BSP(F) end connection adapter-2nos.
7. Metal Washers: 3/8"1/4"1/8", -3nos.
8. 'O' Ring: 3/8"1/4"1/8"-5nos
9. Metal Washers: 1/2", -3nos.
10. 'O' Ring: 1/2"-5nos
11. User Manual: 1no.
12. Traceable Calibration Certificate.
13. Carrying Pouch-2nos for calibrator & comparator.

Optional

1. Quick coupling & connectors
2. RS232 with R&D Soft Cal-Software.
3. Accredited (NABL) Calibration Certificate as per ISO/IEC 17025 Standard
4. Adapters (each 1 no.): 1/4" BSP (M) x 1/8" BSP (F), 1/8" NPT (F), 1/4" NPT (F), 3/8" BSP (F), 3/8" NPT (F), 1/2" BSP (F), 1/2" NPT(F), 1/4" BSP (M).
5. Nylon Seals: 1/8", 1/2", 1/4" & 3/8" - 5 nos. each.

CONTACT



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**Manufacturer of Test benches
Calibration Instruments**

product specification:

- Over Pressure Alarm: 20% of Full Scale (up to 40 bar), 5% of Full Scale (for other ranges)
- Pressure Media: Compatible with 316 Stainless Steel Current Terminal
- Input Protection: Fuse 100mA / 250V
- Display: Graphical display with LED backlight Power Supply: Li-ion rechargeable battery
- Transmitter Supply: 24V DC ±10% (Loop Powered)
- Battery Backup: Up to 19 hours
- Low Battery Indicator: Yes
- Auto Power Off: After 15 minutes of inactivity Pressure
- Connection: 1/4" BSP Female Operating Temperature: 10 to 50°C
- Instrument Casing: ABS Plastic
- Dimensions: 250 mm x 145 mm x 45 mm (L x W x D)
- Weight: 650 grams

