



# Advanced Pressure Gauge Calibration Kit (HYDRAULIC)

**Application:** Ideal for on-site calibration of high pressure. Combines a precision digital pressure gauge with a robust calibration Comparator pump to create a compact, reliable, and cost-effective field calibration solution.

### Features

- Combined system: Pressure Gauge + Comparator Pump
- 0.02 % Full scale accuracy
- Pressure Gauge ranges from -1 bar to 1000 bar
- 0 to 100% Progress Bar for the FS
- Priming pump
- Wide choice of Hydraulic range
- IP 67 Protection Class



\*This image is for marketing purposes; the actual instrument may vary slightly\*

\* Hydraulic comparator pump

### DESCRIPTION

The APGK Series offers high-accuracy digital pressure indicators with selectable accuracies of 0.1%, 0.05%, and 0.02% FS, covering ranges from -1 to 1000 bar. integrated into hydraulic comparator with priming knob (0 to 1000 bar) test kits, it features 14 pressure units, zero, tare, and peak hold functions. Ideal for calibrating pressure gauges, transducers and APGK combines precision with versatile pressure generation, making it a complete pressure calibration solution.

### Technical Specifications

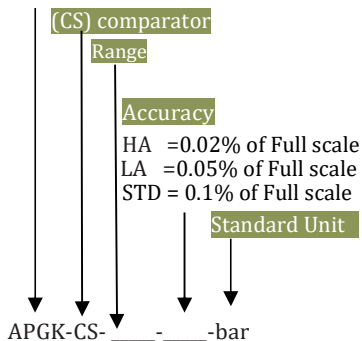
Model	Range (bar)	Resolution (bar)	Units	Comparator range
APGK-CS-400	0 to 400	0.01	bar, psi, Kg/cm2, KPa, MPa, atm, mH2O, inHg, ftH2O	CP-400S (0 to 400)
APGK-CS-700	0 to 700	0.01	bar, psi, Kg/cm2, KPa, MPa, atm, mH2O, inHg, ftH2O	CP-700S (0 to 700)
APGK-CS-1000	0 to 1000	0.1	bar, psi, Kg/cm2, KPa, MPa, atm, mH2O, inHg, ftH2O	CP-1000S (0 to 1000)

Note:

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

### Ordering Information

Advanced Pressure Gauge with calibration kit



### Pressure Range Code

Range code	Range	Vacuum
400	0 to 400 bar	NA
700	0 to 700 bar	NA
1000	0 to 1000 bar	NA
X	User defined	



# R&D Instrument Services

## product specification:

- Accuracy provided: 0.1%FS, 0.05%FS, 0.02%FS \*
- Special Function: Min/Max/ZERO
- Temperature range: 0 to 50°C
- Pressure media: all liquid and gas compatible with SS316 (non-corrosive)
- Pressure unit: bar, psi, Kg/cm<sup>2</sup>, KPa, MPa, mmHg, atm, mH<sub>2</sub>O, inHg, inH<sub>2</sub>O, ftH<sub>2</sub>O, cmH<sub>2</sub>O, mbar, mmH<sub>2</sub>O
- Storage temperature: -20°C to 70°C
- Display: 7 segment large LCD display
- Backlight: white LED backlight
- Character height in display: 15mm height
- Sealing: IP 67
- Over pressure: 120%FS up to 40 bar;
- 105%FS above 40 bar
- Pressure connection: 1/4" BSP male for all ranges
- Power supply: 4 x AA size alkaline battery
- Physical Dimension: 105 x 110 x 50 (LBH) in mm
- Casing material: ABS Plastic
- Battery backup: 2000 hours (STD)  
400 hours (for LA, HA)
- Progress Bar: 0 to 100% (FS for pressure alone)
- Warranty: 1 year (battery not included)
- Safety Standards: IEC 61000-4-2: Testing and measurement techniques  
- Electrostatic discharge immunity test.  
IEC 61000-4-3: Testing and measurement techniques  
- Radiated, radio-frequency

## CONTACT



# R&D Instrument Services

5, Natesan Nagar, Alapakkam,  
Chennai 600116. Tamilnadu, INDIA.  
Tel.: +91-44-4283 9039 / 4284 1119  
Mobile Nos.: +91-7358393981 / 7358393984  
email: sales@rndinstruments.com  
quote@rndinstruments.com

Website: www.rndinstruments.com

For Calibration: www.calibrationlab.in

**Manufacturer of Test benches  
Calibration Instruments**



CC-2828



## Standard delivery

Each APGK-CS is supplied with

1. APGK Digital Indicator.
2. Comparator pump (Hydraulic).
3. Rubber Boot.
4. AA alkaline batteries x 4nos.
5. 1/2", 1/4", 1/8", 3/8"-each 1nos BSP(F) end connection adapter.
6. Metal Washers: 3/8"1/4"1/8", -3nos.
7. 'O' Ring: 3/8"1/4"1/8"-5nos
8. Metal Washers: 1/2", -3nos.
9. 'O' Ring: 1/2"-5nos
10. User Manual: 1no.
11. Traceable Calibration Certificate.
12. Carrying pouch - 2 nos for indicator & pump.

## Optional

1. Quick coupling & connectors.
2. Accredited (NABL) Calibration Certificate as per ISO/IEC 17025 Standard.
3. Communication Cable with R&D Cal-Software.
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).
5. Nylon Seals: 1/8", 1/2", 1/4" & 3/8" - 5nos each.