



## Advanced Pressure Gauge Calibration Kit (Pneumatic & Hydraulic)

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

### Features

- Combined system: Pressure Gauge + Hand Pump
- 0.02 % Full scale accuracy
- Pressure ranges from -1 bar to 1000 bar
- Gauge, and absolute ranges
- 14 selectable pressure units
- 0 to 100% Progress Bar for the FS
- Wide choice of Pneumatic and Hydraulic range
- IP 67 Protection Class



\*pneumatic hand pump



\* Hydraulic hand pump

\*Vacuum: Applicable only with pneumatic hand pumps

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

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### 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. Available as a standalone gauge or integrated into pneumatic (-0.95 to 60 bar) and hydraulic (0 to 700 bar) test kits, it features 14 pressure units, zero, tare, and peak hold functions. Ideal for calibrating pressure gauges, transducers, APGK combines precision with versatile pressure generation, making it a complete pressure calibration solution.

### Technical Specifications

Model	Range (bar)	Resolution (bar)	Units	Hand pump range
APGK-H-1	-1 to 1	0.0001	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	HP-1 (0.95 to 1 bar)
APGK-H-2	-1 to 2	0.0001	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	HP-2 (0.95 to 2 bar)
APGK-H-20	-1 to 20	0.001	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	HP-20 (0.95 to 20 bar)
APGK-H-40	-1 to 40	0.001	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	HP-40 (0.95 to 40 bar)
APGK-H-60	-1 to 70	0.001	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	HP-60 (0.95 to 60 bar)
APGK-H-200	0 to 200	0.01	bar, psi, Kg/cm <sup>2</sup> , KPa, MPa, atm, mH <sub>2</sub> O, inHg, ftH <sub>2</sub> O	HP-P-200 (0 to 200)
APGK-H-400	0 to 400	0.01	bar, psi, Kg/cm <sup>2</sup> , KPa, MPa, atm, mH <sub>2</sub> O, inHg, ftH <sub>2</sub> O	HP-P-400 (0 to 400)
APGK-H-700	0 to 700	0.01	bar, psi, Kg/cm <sup>2</sup> , KPa, MPa, atm, mH <sub>2</sub> O, inHg, ftH <sub>2</sub> O	HP-P-700 (0 to 700)

Note:

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



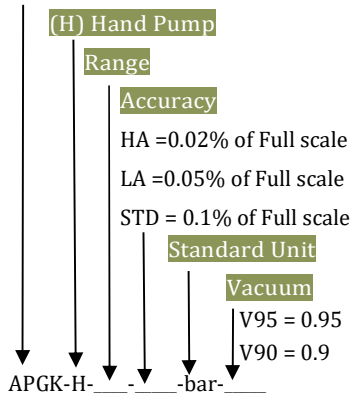
# R&D Instrument Services

## 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

## Ordering Information

### Advanced Pressure Gauge with Calibration Kit



## CONTACT



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**Manufacturer of Test benches  
Calibration Instruments**

## Standard delivery

Each APGK-H is supplied with

1. APGK Digital Indicator.
2. Rubber boot.
3. AA alkaline batteries x 4nos.
4. Hand pump (Pneumatic or Hydraulic).
5. 1m 4mm nylon hose with 1/4" BSP(F) adapter for pneumatic hand pump.
6. 5.23 x 2.62, 4.47 x 1.78 'O'ring x each 3nos for pneumatic hand pump.
7. 0.5m Hydraulic Hose for hydraulic hand pump.
8. 5.28 X 1.78 'O'ring x 3nos for hydraulic hand pump.
9. Bonded Seals 1/4", 1/8"-each 5nos for hydraulic hand pump.
10. Hydraulic Oil: 100cc for hydraulic hand pump.
11. Warranty certificate.
12. User manual.
13. Traceable Calibration Certificate.
14. 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. Data Logging Facility.
5. Set of adaptors 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 no. each.
6. Nylon Seals 1/2", 1/4", 1/8", 3/8" - each 5nos.
7. Carrying Case.

## Pressure Range Code

Range code	Range	Vacuum
1 (Pneumatic)	0 to 1bar	✓
2 (Pneumatic)	0 to 2bar	✓
20 (Pneumatic)	0 to 20 bar	✓
40 (Pneumatic)	0 to 40 bar	✓
60 (Pneumatic)	0 to 60 bar	✓
200 (Hydraulic)	0 to 200 bar	NA
400 (Hydraulic)	0 to 400 bar	NA
700 (Hydraulic)	0 to 700 bar	NA
X	User defined	



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