



Advanced Pressure Gauge

APG-Series

Data Sheet



FEATURES

- 0.02 % Full scale accuracy
- Pressure ranges from -1 bar to 1000 bar
- Gauge, and absolute ranges
- 14 selectable pressure units
- Wide choice of Pneumatic and Hydraulic range
- IP 67 Protection Class
- Logging Rate Up to 36,000 samples per second
- 0 to 100% Progress Bar for the FS

DESCRIPTION

High precision digital pressure gauge with an accuracy ranges of 0.1, 0.05, 0.02% of full scale available in pressure ranges from -1 bar to 1000 bar with a wide choice of pressure ranges. APG Series is capable of data logging, enabling precise recording and traceability of pressure measurements over time. APG features 14 selectable pressure units, zero, tare & peak hold display functions. APG is supplied as a standalone digital indicator or in hydraulic or pneumatic test kits with our wide range of hand-held pressure pumps to be used as high accuracy pressure calibrator for calibrating pressure gauges, pressure transducer and pressure switches.

Technical Specifications

Range code	Range	Resolution	Units
1	-1 to 1	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
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
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
40	-1 to 40	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
70	-1 to 70	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
200	0 to 200	0.01	bar, psi, Kg/cm ² , KPa, MPa, atm, mH ₂ O, inHg, ftH ₂ O
400	0 to 400	0.01	bar, psi, Kg/cm ² , KPa, MPa, atm, mH ₂ O, inHg, ftH ₂ O
700	0 to 700	0.01	bar, psi, Kg/cm ² , KPa, MPa, atm, mH ₂ O, inHg, ftH ₂ O
1000	0 to 1000	0.1	bar, psi, Kg/cm ² , MPa, atm, mH ₂ O, inHg, ftH ₂ O

Accuracy provided: 0.1%FS, 0.05%FS, 0.02%FS *

Special Function: Min/Max/ZERO

Operating Temperature: 0 to 60°C

Pressure media: all liquid and gas compatible with SS316 (non-corrosive)

Pressure unit: bar, psi, Kg/cm², KPa, MPa, mmHg, atm, mH₂O, inHg, inH₂O, ftH₂O, cmH₂O, mbar, mmH₂O

Pressure connection: 1/4" BSP male for all ranges

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

Powersupply: 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) *Note: for DL model it may vary*

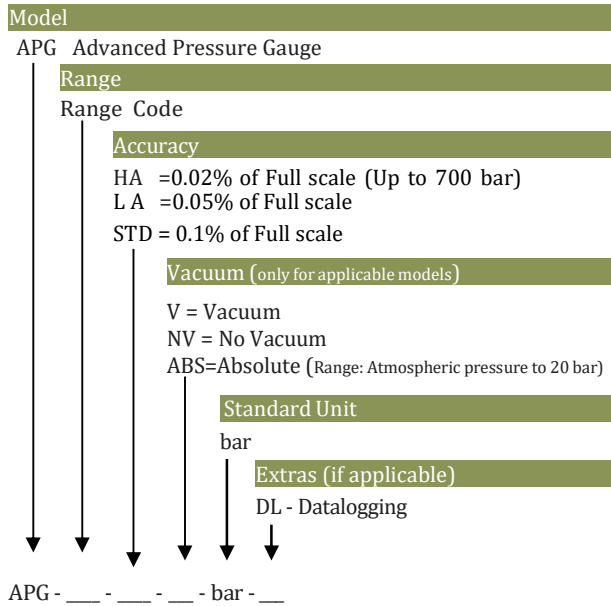
Progress Bar: 0 to 100% (FS for pressure alone)

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, electromagnetic field immunity test.



Ordering Information



Note:

- * - Accuracy specifications include effect of non-linearity, hysteresis & repeatability at 23±5°C
- *ABS models offer a maximum accuracy of up to 0.05% F.S. only

Recommended Pressure Source

Below models have been recommended by our R&D to enhance calibration accuracy and performance, and are being considered for inclusion.

1. HP series
2. CP series
3. HPP series

Check our website for more catalogues.

CONTACT



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**Manufacturer of Test benches
 Calibration Instruments**

Pressure Range Code

Range Code	Range	Vacuum
1	0 to 1 bar	✓
2	0 to 2 bar	✓
20	0 to 20 bar	✓
40	0 to 40 bar	✓
70	0 to 70 bar	✓
200	0 to 200 bar	NA
400	0 to 400 bar	NA
700	0 to 700 bar	NA
1000	0 to 1000 bar	NA
X	User defined	

Data logger:

Data Output Format .TXT format via Serial Port Monitor

Real-Time Clock (RTC) 24-hour internal clock

Time Configuration:

- User-Defined Date & Time

Start Function Modes:

- Immediate Start
- Scheduled Start (date/time-based triggering)

Logging Capacity by Up to 36,000 samples

Standard delivery

Each APG is supplied with

- APG Digital Indicator
- Rubber boot
- AA alkaline batteries x 4nos
- Transit Carrying Case
- Warranty certificate
- User manual
- Traceable Calibration Certificate
- Data cable (Only for DL model)

Optional

- Adapters: 1/4" BSP F x 1/4" NPT M
 1/4" BSP F x 1/2" BSP M
 1/4" BSP F x 1/2" NPT M
 1/4" BSP F x 3/8" BSP M
- Quick Couplers
- Accredited (NABL) Calibration Certificate as per ISO/IEC 17025 Standard
- Data logging facility

