

# Ultra-High Pressure Automatic Piston Gauge Model BL534



The model BL534 series ultra-high pressure automatic piston gauge performs great pressure accuracy and an excellent long term stabilization as a primary standard. It is perfect solution in accredited pressure metrology institute and industrial pressure calibration laboratory.

## KEY FEATURES

- Hydraulic pressure to 2000MPa
- Auto load and rotate mass set
- Manual generate pressure
- Piston floating position limitation control
- Advanced rotation system can release mass set with fixed speed, no effects for measure
- Built-in sensors measure relative humidity, barometric pressure, ambient temperature and piston-cylinder temperature.
- Device can measure and provide real time indication of piston position, drop rate, rotation rate and rotation declaration.
- Terminal can adjust local gravity value, head difference, deformation coefficient, diameter changes and media density
- RS232 and USB communication

## APPLICATION

- Test or calibration of various pressure measuring instruments in lab or site
- Primary pressure standards in national or regional metrology laboratory.

## SPECIFICATION

- Range: (10 ~ 500)MPa, (20 ~ 800)MPa, (50 ~ 1,000)MPa
- Accuracy: 0.05%rd, 0.02%rd, 0.01%rd
- Piston material: Tungsten carbide
- Cylinder material: Tungsten carbide
- Mass material: Forged non-magnetic 316SS
- Test pressure connection: high pressure coned and threaded (AE F250C, HIP HF4)
- Medium: Sebacate
- Connector on manifold: Metric
- Power Supplier: 220VAC, 50/60Hz
- Operating temperature: 10 to 30 °C (50 to 90 °F)
- Piston gauge base: 80 x 60 x 90cm / 300kg
- Mass sets: 300kg - 500 kg

## SCOPE OF DELIVERY

- BL534 ultra-high pressure piston gauge base
- Piston-cylinder module
- Forged non-magnetic 316SS mass set
- Adapter kits includes 1/4HP and BSP

## OPTIONAL ACCESSORIES AND SERVICES

- Accredited Calibration for piston and mass (P/N:9000-534)

## ORDERING MODEL NUMBER

- B534-500-1: 500MPa, 0.01%rd accuracy
- B534-500-2: 500MPa, 0.02%rd accuracy
- B534-500-5: 500MPa, 0.05%rd accuracy
- B534-800-2: 800MPa, 0.02%rd accuracy
- B534-800-5: 800MPa, 0.05%rd accuracy
- B534-1GPA-2: 1GPa, 0.02%rd accuracy
- B534-1GPA-5: 1GPa, 0.05%rd accuracy