

Model BL522 Automatic Pneumatic Piston Gauge



The model BL522 series automatic pneumatic 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

- Gauge pressure, absolute pressure (option)
- Reference vacuum is up to 1.3Pa \pm 20%
- Auto apply pressure
- Auto fine adjust pressure
- Auto select mass
- Auto rotate floating mass set
- Electric control and gas control
- Piston floating position limitation control
- Advanced rotation system can release mass set with fix speed, no effects for measure
- Terminal can indicate real atmosphere pressure, ambient temperature, ambient humidity by using internal sensors
- Terminal can test piston temperature, rotation speed, decline speed and location
- Terminal can correct the real local gravity, head difference, deformation coefficient, diameter changes and media density
- RS232 and USB communication
- With mA, V measure and 24V loop power

SPECIFICATION

- Piston material: Tungsten carbide
- Cylinder material: Tungsten carbide
- Mass material: Forged non-magnetic 316SS

- Accuracy: 0.005% of reading
- Pressure range selectable sheet

Part Number	Range (kPa)	Area cm ²	Piston Kn value	Option Mini P
KY-ZQ2-250	10 ~ 250	10	10kPa /kg	0.5 kPa
KY-ZQ2-1000	20 ~ 1000	5	20kPa /kg	1 kPa
KY-ZQ2-2000	50 ~ 2000	2	50kPa /kg	2.5 kPa
KY-ZQ2-4000	100~4000	1	100kPa/kg	5 kPa
KY-ZQ2-10000	200~10000	0.5	200kPa/kg	10 kPa

- Medium: Dry air (<1600kPa); Nitrogen (\geq 1600kPa)
- Connector on manifold: Metric (NPT and BSP is option)
- Current measure: \pm 30.000mA, \pm (0.01%RD+0.003%FS)
- Voltage measure: \pm 30.000V, \pm (0.01%RD+0.003%FS)
- Voltage source: DC24 V (max.50mA), \pm 0.5V
- Power Supplier: 220VAC, 50/60Hz
- Mass selector and base: 46x46x60cm / 50kg
- Pressure controller: 40x25x36cm / 25kg
- Calculator and Terminal:35x30x24cm / 5kg

SCOPE OF DELIVERY

- BL522 Pneumatic piston gauge base
- Piston-cylinder module
- Forged non-magnetic 316SS increment mass set
- Mass auto selector
- Pneumatic pressure controller
- Pressure calculator and terminal
- Pressure manifold
- Adapter kits includes NPT and BSP
- Pressure connection tube
- Three pieces of 1.5-meter test leads
- 110V/220V external power adapter
- Transit cases
- Gas bottle (buy locally)

OPTIONAL ACCESSORIES AND SERVICES

- Absolute pressure measurement
- Optional minimum pressure
- Accredited Calibration, include mass set (P/N:9000-522)
- Trim weight set, F1, 316 stainless steel. (P/N: 1550-F1)

HOW TO ORDER

- Model BL522 / pressure range part number