

PZG – The new portable Particle Counter for Gas



Our **PZG** line of laser particle counters uses the newest technology in optical particle counting technology and can be integrated with a larger facility monitoring/management system.

The **PZG** line offers a sensitivity of 0.2 μm (micron) and a flow rate of 1.0 CFM (28.3 LPM) and is available in three types:

- PZG 21** (0.2 – 5.0 μm)
- PZG 31** (0.3 – 10.0 μm)
- PZG 51** (0.5 – 10.0 μm)

Utilizing an easy to read, large 8,4" color-touch-screen-display, 800 x 600 SVGA, the **PZG** line is easy to configure and operate.

With the PZG it is possible to store up to 1,000 programs with individual configurations.

Our **PZG** line can store a large amount of particle count data from up to 8 channels and data from up to 4 environmental sensors.

All data can be quickly and reliably downloaded to a computer or stored to a USB-stick or printed on the built in thermal printer. Access to the internally stored data via Ethernet and Telnet is possible.

The PZG line can be used as a portable instrument or integrated with a larger facility monitoring/management system.

FEATURES

- Sensitivity of 0.2 / 0.3 / 0.5 μm
- Flow rate 1.0 CFM (28.3 LPM)
- View 8 particle sizes simultaneously
- Up to 4 environmental sensors
- Meets JIS standards
- Data reported in ISO-14644-1, DIN 1946-4, FS-209E
- 8,4" (21.5 cm) color touch screen display, 800 x 600 SVGA
- Stainless steel enclosure
- Data easily downloaded to computer
- Large internal data memory at least 10,000 and more measurements
- 2 USB slots for USB sticks, 1 slot for ETHERNET and 1 slot for RS 232
- Grab and analyse the measurements within intranet
- NiMH-akkus rechargeable and independent of power supply system
- Internal audible alarm
- Stores up to 1,000 programs with individual configurations.

BENEFITS

- 2 year warranty
- User friendly interface
- Easy to read display
- Excellent support
- Low cost
- 6 kilogram light-weight
- Small dimensions 11.42"x8.66"x6.69" (29 x 22 x 17 cm)

APPLICATIONS

- Cleanroom + Facility Monitoring
- Facility Certification
- Filter Testing
- Semiconductor Industry
- Pharmaceutical Industry
- Medical Device
- Food Processing Area
- Cleanroom Packaging
- Aerospace
- Hospital Surgical Rooms
- Hard Disk Drive Manufacturing



DETAILS AND TECHNICAL SPECIFICATIONS

Channel Size:	Standard for: PZG 21: 0.2 / 0.3 / 0.5 / 1.0 / 2.0 / 3.0 / 4.0 / 5.0 µm PZG 31: 0.3 / 0.5 / 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 10.0 µm PZG 51: 0.5 / 1.0 / 1.5 / 2.0 / 3.0 / 4.0 / 5.0 / 10.0 µm (Other sizes are available, must be ordered in the moment the order)
Flow Rate:	1.0 CFM (28.3 LPM)
Counting Efficiency:	50 % (per JIS)
Laser Source:	Laser Diode
Zero Count Level:	< 1 count / 5 minutes (per JIS)
Count Modes:	Concentration, manual/automatic, beep, cumulative/differential
Sample Output:	Internally filtered to HEPA standards (> 99,997 % @ 0.3 µm)
Vacuum Source:	Internal pump, flow controlled
Calibration:	NIST traceable
Data Reports:	ISO-14644-1, DIN 1946-4, FS-209E (other Reports on request)
Touch Screen Display:	8.4" (21.5 cm) color touch screen display, 800 x 600 SVGA
Communication Modes:	2 x USB, ETHERNET, RS 232
Data Storage:	Large internal data memory at least 10,000 measurements and more and / or with USB-memory-stick external memory (optional) (includes particle and environmental data plus date, time, measuring time, pause time, programmable particle size channels with distributive, cumulative particle number and volume distribution, mean value (depending on setting))
Environmental Sensors:	Up to 4 sensors can connected at the same time: Temperature, (optional) Relative Humidity, Air Velocity, Differential Pressure
Printer:	Thermal printer installed
Power supply:	230 V
Battery (optional):	NiHM rechargeable, operating time 4 hours, charging time 4,5 hours External charging unit 90 – 270V/50 – 60 Hz, worldwide operation
Enclosure:	Stainless Steel Enclosure
Dimensions:	11.42" (l) x 8.66" (w) x 6.69" (h) (29 x 22 x 17 cm)
Weight:	13.228 lb (6 kg)

ENVIRONMENTAL CONDITIONS

Operating:	50°F to 104°F (10°C to 40°C) / 20 % to 95 % non condensing
Storage:	14°F to 122°F (10°C bis 50°C) / up to 98 % non condensing

ACCESSORIES

Included:	Operation manual, power cable, isokinetic sample probe with 3 m antistatistical tube, purge filter, thermal printerpaper, calibration certificate
Optional:	Case to protect the PZG, NiHM battery with mains receiver, sampling handle with start/stop switch for initiating measurements at a distance of up to 5 m from the device, sensors for: temperature, relative humidity, air velocity, differential pressure, tripod with wheels up to 4 m extensible, thermal printerpaper; evaluation software