



**R3 Elektronik GmbH**  
Your partner for particle measurement engineering

Production "Made in Germany"

Particle monitoring

Particle counters for air, gas and liquids

Aerosol generators and dilution systems

Calibration and service of measuring instruments

QMS is certified according to DIN EN ISO 9001:2000

## **NEW!!! PZG Particle Counter 100 Liters per Minutes**



The **PZG** line with a flow rate of 100 LPM offers a sensitivity of 0.3  $\mu\text{m}$  (micron) (Alternative: 28.3 LPM = 1.0 CFM with a sensitivity of 0.2  $\mu\text{m}$ ) and is available in three types:

0.2 – 5.0  $\mu\text{m}$

0.3 – 10.0  $\mu\text{m}$

0.5 – 10.0  $\mu\text{m}$

With the flow rate of 100 liters per Minutes you need only 10 Minutes for 1  $\text{m}^3$  and you save 70 % time and because of this costs too.

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. Acces 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**

- Flow rate 28.3 LPM = 1.0 CFM or 100 LPM
- Sensitivity of 0.2 / 0.3 / 0.5  $\mu\text{m}$
- View 8 particle sizes simultaneously
- Up to 4 environmental sensors
- Meets JIS standards
- Data reported in ISO-14644-1, DIN 1946-4, FS-209E, GMP at rest, GMP in operation
- 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
- Grab and analyse the measurements within intranet
- NiMH-akkus rechargeable
- Internal audible alarm
- Stores up to 1,000 programs with individual configurations.

### **BENEFITS**

- 2 year warranty
- User friendly interface
- Easy to read display
- Excelent support
- Low cost
- 8 kilogram light-weight
- Small dimensions 31 x 24 x 19 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 28.3 l/min and 100 l/min: <b>PZG 21 (not 100 LPM):</b> 0.2 / 0.3 / 0.5 / 1.0 / 2.0 / 3.0 / 4.0 / 5.0 µm <b>PZG 31 and PZG 131:</b> 0.3 / 0.5 / 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 10.0 µm <b>PZG 51 and PZG 151:</b> 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:	100 LPM (Alternative: 28.3 LPM = 1.0 CFM or 2.83 LPM = 0.1 CFM)
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)
Pump:	Internal vacuum pump, flow controlled
Calibration:	ISO 21501-4
Data Reports:	ISO-14644-1, DIN 1946-4, FS-209E, GMP at rest, GMP in operation (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, 1 x ETHERNET
Data Storage:	Large internal data memory at least 10,000 measurements and more and / or with USB-memory-stick external memory (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: (optional)	Up to 4 sensors can connected at the same time: Temperature, Relative Humidity, Air Velocity, Differential Pressure
Printer:	Thermal printer installed
Power supply:	230 V
Battery (optional):	NiHM rechargeable
Enclosure:	Stainless Steel Enclosure
Dimensions:	31 x 24 x 19 cm
Weight:	8 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, USB-stick, thermal printerpaper, calibration certificate
Optional:	Case to protect the PZG, NiHM battery, 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; Software PARTSOFT (only in Germany) to transfer the measurement files from the particle counter PZG to PC/Laptop and so to transfer in a EXCEL file