

## Particle / Dust Monitor

# Handheld Laser Particle Counter MODEL 3886 GEO- $\alpha$



**Cleanroom certification**  
**IAQ investigations**  
**Food Industry**  
**Filter Testing**  
**Aerospace**  
**Hospital Surgical Rooms**  
**Paint Spray Booths**

### Features:

- Measures 5 particle sizes simultaneously (0.3, 0.5, 1.0, 3.0 and 5.0  $\mu\text{m}$ ) in  $\text{cf}$  or  $\text{m}^3$ , displaying 2 channels
- Built-in flow sensor (0.1 CFM  $\pm$  10%)
- Temp./RH and Air Velocity probes available as an option
- Capable of measuring up to 4 parameters in one instrument.

### Specifications

5 Size Channels		0.3 $\mu\text{m}$ ; 0.5 $\mu\text{m}$ ; 1.0 $\mu\text{m}$ ; 3.0 $\mu\text{m}$ ; 5.0 $\mu\text{m}$
Flow Rate		0.1 cfm (2.83 l/min)
Light Source		Laser Diode
Calibration		PSL particles in air
Counting Efficiency		50% @ 0.3 $\mu\text{m}$ ; 100% for particles > 0.45 $\mu\text{m}$ (per JIS B9921: 1997)
Zero Count		$\leq 1$ count / 5 minutes (per JIS B9921: 1997)
Coincidental Loss		<5% @ 2,000,000 particles/cf
Sampling Time		1 sec - 99 min 59 sec, 1 second increment
Sampling Frequency		1 - 99 or continuous
Count Modes		Single, Repeat, Continuous, Calculation and Remote
Display		20 letters, 4 line LCD
Interface		RS232C or RS485
Baud Rate		9600 bps
Buffer Memory		500 sample records
Power	AC Adapter	5VDC at 2.5A, 100 - 240VAC, 50 to 60 Hz
	Rechargeable Battery	4 x AA NiMH
		3.5 hrs with 1600mAh batteries
Vacuum Source		Internal pump, flow controlled
Dimensions		4.5" x 2.8" x 8.5" (115 mm x 70 mm x 211 mm)
Weight		2.2 lbs (1 kg)
Accessories		AC Adapter, Zero Filter
Options		Isokinetic Probe, Air Velocity Probe, Thermal Printer, Temperature/Relative Humidity Probe, Carrying Case