

## Particle Count Meters

### Handheld Laser Particle Counter Model 3886 "GEO-α"



#### Features

- Simultaneous measurements/monitor of particle concentration, relative humidity, temperature and air velocity in a single instrument.
- 5 particle size channels(0.3,0.5,1.0,3.0 and 5.0  $\mu\text{m}$ )
- Built-in flow sensor enables highly accurate measurement of particle concentration( $0.1\text{CFM}\pm 10\%$ )
- Efficient data storage and logging capability.(500 data can be stored internally)
- Compact and light weight can be used as a multi-point monitor by cascade connection
- Remote control by external computer

#### Specifications

Measuring particle sizes	0.3,0.5,1.0,3.0,5.0 $\mu\text{m}$
Light Source	Laser Diodes
Counting Efficiency	Meets JIS B9921
Zero Count	Meets JIS B9921
Coincidence Loss	Less than 5% at 2,000,000 particles/cf
Flow Rate	0.1cfm (2.83 l/min)
Sampling Time	1 second-99 minutes, 59 second(adjustable in seconds)
Sampling Frequency	1-99 times, or Continuous
Count Alarm	1-70,000,000 counts
Mode of Measurements	Single/Repeat/Continuous/Calculation/Remote
Display	20 Letters, 4 Lines LCD
Error Sign	Counts beyond Max concentration, Dropoff laser power, Out of regulated flow rate(+/- 10%), Low Battery

Interface	RS-232C or RS-485(Selectable on menu page), RJ-11 Connector N.B.RS-485 is for cascade connection
Communication Protocol	Baud Rate 9600 bps
Buffer Memory	500 data (In Calculation mode, 1 measurement is counted as 4 data)
Power Supply	4 pieces of AA-size Ni-MH battery (4.8V-1.6Ah_ or AC adapter (Input 100-240V) Batteries are not included and cannot be charged by AC adapter.
Operating Hours	3 hours (by Ni-MH batteries)
Dimensions	115(W) x 70(H) x 211 (D)mm
Weight	Approx..980g(without batteries)
Environmental operation condition	Ambient temperature range: 10-35°C(50-95°F)
Standard Accessories	AC adapter, Filter, Tube, Handle, Operation Manual
Options	Printer, Printer cable, Temperature/Humidity probe, Air Velocity probe, Extension rod for Air velocity probe, Carrying case, tripod

### Downsizing of Laser Particle Counter

- On site monitoring of condensation by built-in LCD
- Light and compact body does not require large space
- CPU loaded and RS 485 output
- Steel stand and attachment plate for various installation needs
- Quick joint of cable by modular connector
- Simple connection of piping by mechanical fitting

