

# Handheld Particle Counter Model P231

The Airy Technology P231 remote particle counter measures 0.5  $\mu\text{m}$  and 5.0  $\mu\text{m}$  with a flow rate of 1.0 CFM (28.3 LPM). Integration is easy into a real-time monitoring or building management system via Modbus™ RTU or Modbus™ ASCII. The P231 is the smallest remote particle counter in the market and has easy mounting options. The Airy Technology P231 complies with ISO 21501-4 and includes a 2 year limited warranty.

## Features & Benefits

- Measures 0.5  $\mu\text{m}$  and 5.0  $\mu\text{m}$
- 1.0 CFM (28.3 LPM) flow rate
- Measures 2 channels of simultaneous data
- Long life laser diode
- Modbus™ RTU or Modbus™ ASCII outputs
- Concentration limit of 500,000 per  $\text{ft}^3$
- Complies with ISO 21501-4 and JIS B9921 standards
- Lightweight stainless steel enclosure
- Easy to clean and wipe down
- 2 year limited warranty



Compact Size

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## Specifications

Channel Sizes	0.5 $\mu\text{m}$ and 5.0 $\mu\text{m}$
Counting Efficiency	50% at 0.5 $\mu\text{m}$ ; 100% for particles > 0.75 $\mu\text{m}$ (per JIS)
Concentration Limits	500,000 particles / ft <sup>3</sup> at 5% coincidence loss
Light Source	Long life laser diode
Zero Count Level	<1 count / 5 minutes (per JIS B9921)
Size Resolution	<15% at 0.5 $\mu\text{m}$ (per ISO 21501-4)
Flow Rate	1.0 CFM (28.3 LPM)
Flow Control	Critical orifice
Vacuum Requirements	External vacuum >15" (38.1 cm) of Hg
Calibration	NIST traceable
Sample Probe/Tubing	Isokinetic sampling probe
Communication Interface	Modbus™ RTU or Modbus™ ASCII outputs (specified upon order)
Power	9-30 VDC
Dimensions (L x W x H)	1.8" x 3.7" x 1.5" (4.5 cm x 9.3 cm x 3.8 cm) does not include probes
Weight	0.62 lb (0.28 kg)
Standards	ISO 21501-4 and JIS B9921
Warranty	2 year limited warranty
Operating Conditions	5° to 35°C 20% to 95%RH non-condensing
Storage Conditions	-20° to 50°C Up to 98%RH non-condensing
Included Accessories	Isokinetic sampling probe and user manual
Optional Accessories	Purge filter, data cable, vacuum and sample tubing



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