

P231 Remote Airborne Particle Counter

1.0 CFM (28.3 LPM)



The Airy Technology® P231 Remote Particle Counter measures 0.5 µm and 5.0 µm 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. The P200 models are the smallest 1.0 CFM remote particle counters on the market and have easy mounting options. The Airy Technology® P231 unit complies with ISO 21501-4 and includes a 1 year limited warranty.

Features and Benefits

- P231: Measures 0.5 µm and 5.0 µm
- 1.0 CFM (28.3 LPM) flow rate with onboard pressure loss alarm
- Long life laser diode technology
- World's smallest 1.0 CFM remote particle counter
- Measures 2 channels of simultaneous data.
- MODBUS™ RTU
- Connect using RS-485
- Concentration limit of 500,000 per ft³
- LED Status Indication
- Complies with ISO 21501-4 and JIS B9921 standards
- Seamless integration into a facility monitoring system
- Light weight stainless steel enclosure
- 1 year limited warranty

Specifications

Model	P231
Channel Sizes	0.5 µm and 5.0 µm
Counting Efficiency	50% at 0.5 µm; 100% for particles > 0.7 µm (per JIS)
Concentration Limits	500,000 particles / ft ³ at 5% coincidence loss
Light Source	Long life laser diode
Zero Count Level	<1 count / 5 minutes (per JIS B9921)
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
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 probe
Weight	0.62 lb (0.28 kg)
Standards	ISO 21501-4 and JIS B9921
Warranty	1 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
Optional Accessories	Isokinetic sampling probe, purge filter, vacuum and sample tubing

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