



# Remote Particle Sensor MODEL P231

The Model P231 is designed for continuous monitoring. The P231 monitors 0.5µm and 5.0µm particle sizes simultaneously with a flow-rate of 1.0 CFM (28.3 LPM). Using Modbus/RS485 communications, the sensor can be easily integrated into the CIMScan Monitoring System. Its compact size and light weight maximizes the flexibility of mounting locations. The P231 complies with ISO 21501-4 and comes with a 2-year warranty. The P231 with CIMScan Monitoring System is suitable from mini environment to large facility monitoring.



**Compact Size**

## Features and Benefits

- > 2 channels (0.5µm and 5.0µm)
- > 1.0 CFM (28.3 LPM)
- > 2 Year Warranty
- > Streamlined & Lightweight
- > Integrate to CIMScan Monitoring System
- > Modbus/RS485 Output
- > ISO 21501-4 and JIS B9921 Compliant
- > Stainless Steel Enclosure
- > Optional Temperature & Humidity Sensor

## Specifications

|                               |   |
|-------------------------------|---|
| <b>Channel Sizes</b>          | 0.5 µm, 5.0 µm  |
| <b>Flow Rate</b>              | 1.0 CFM (28.3 LPM) ±3% accuracy                                     |
| <b>Flow Control</b>           | Critical Orifice  |
| <b>Counting Efficiency</b>    | 50 % at 0.5µm; 100% for particles >0.75µm (per ISO 21501-4 and JIS) |
| <b>Concentration Limits</b>   | 500,000 particles / ft3 at 5% coincidence loss                      |
| <b>Light Source</b>           | Laser diode   |
| <b>Zero Count Level</b>       | <1 count / 5 minutes (per ISO 21501-4 and JIS)                      |
| <b>Calibration</b>            | NIST traceable  |
| <b>Vacuum Requirements</b>    | External vacuum, > 15" (38.1 cm) of Hg                              |
| <b>Communication Modes</b>    | Modbus/RS485  |
| <b>Supporting Software</b>    | CIMScan Monitoring System   |
| <b>Power Requirements</b>     | 9 - 30VDC   |
| <b>Dimensions (L x W x H)</b> | 45x93x38mm (without inlet, terminal strip and mounting part)        |
| <b>Port Sizes</b>             | 1/4 ID  |
| <b>Enclosure</b>              | Stainless Steel   |
| <b>Weight</b>                 | 279g  |
| <b>Standards</b>              | CE, JISB9921, ISO 21501-4   |
| <b>Environmental Sensors</b>  | T/H Sensor (Optional)   |
| <b>Operating Conditions</b>   | 50 F to 104 F (10 C to 40 C) / 5% to 95% non-condensing             |
| <b>Storage Conditions</b>     | -4 F to 122 F (-20 C to 50 C) / 5% to 95% non-condensing            |
| <b>Warranty</b>               | 2 year limited warranty   |
| <b>Included Accessories</b>   | Isokinetic Sampling Probe; Sampling Tube                            |
| <b>Optional Accessories</b>   | Vacuum Tubing; Zero (Purge) Filter                                  |



### CAUTION

All specifications are subject to change without notice. For safe and trouble-free operations, please read the Operation Manual carefully before using the instruments.

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