



MET ONE 3400+

Automate environmental monitoring for GMP cleanroom compliance with ONE easy decision



Our new MET ONE 3400+ Series Portable Airborne Particle Counter features automated integrated electronic SOPs and sampling maps that reduce training requirements—and sampling errors.

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It's all in the box

Customized Electronic SOP Maps

Using a web-browser interface, load your SOP map into the counter, mark sample locations, and define SOP requirements for each.

Interactive Tracking

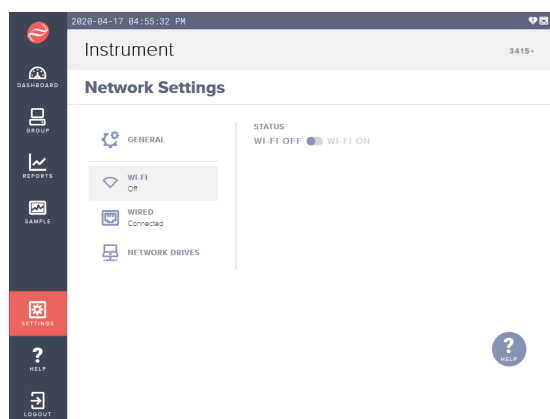
Onscreen instructions help operators navigate your map and perform sampling according to the SOP. Managers can review daily monitoring progress including all sample results and alarms, via a web browser.

Automated SOP Version Control

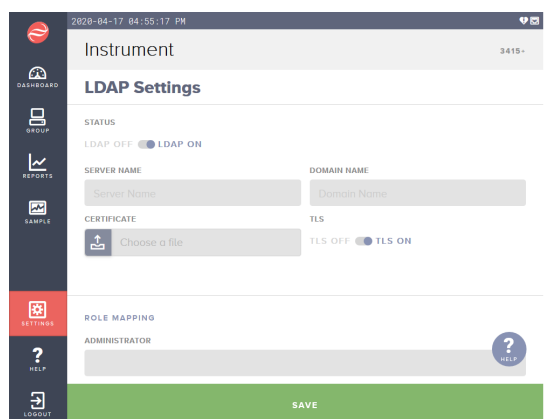
To simplify SOP changes/updates, administrators use a web-based tool to approve each updated SOP via electronic signature. Changes are automatically replicated across all instruments.

Review

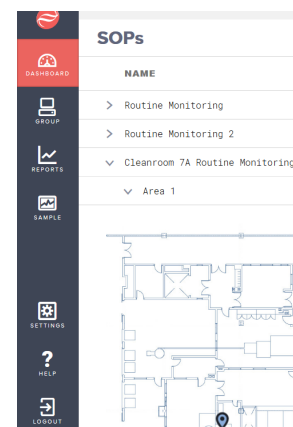
Supervisors can log-on to the instrument via a web-browser to review sampling results, alarms and comments and approve the final electronic record, attaching their electronic signature.



1. Configure network



2. Choose LDAP settings including Active Directory



3. SOP version control inside the box



Secure Electronic Records

An electronic signature is attached to all approved final reports, which can then be exported in secure electronic format.

Barcode Function (optional)

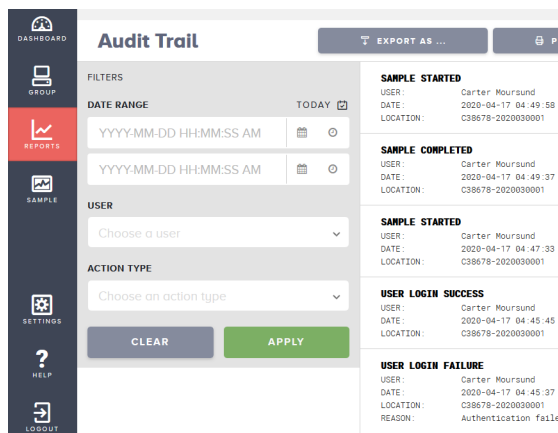
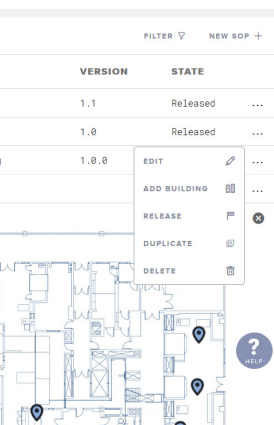
Connect a barcode reader to automatically capture sample location, production batch ID and more.

Plug-n-Play Networking

All instruments automatically create a network, which minimizes involvement of your IT department.

Sampling Options

Available in 1 ft³/min, 50 L/min and 100 L/min versions. The MET ONE 3400+ can sample 1m³ in as little as 10 minutes



the counter

4. Confirm all changes using built-in audit trail

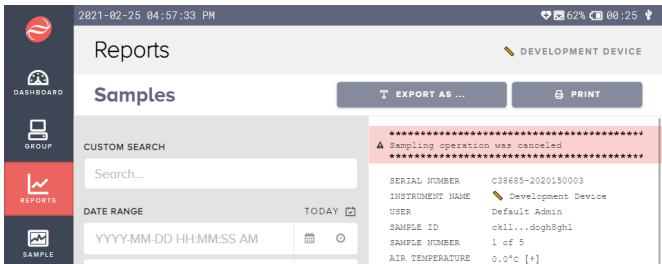
5. Review and approve monitoring results via web-browser

Simplified, secure data management eases audits

The MET ONE 3400+ helps you manage accurate cleanroom monitoring data via safe and secure internal software and web access—there’s no external software needed. All data is encrypted, and users are never permitted to delete records.

And because it uses Microsoft Active Directory for Username and Password Control for log-on and electronic signatures, it supports 21 CFR Part 11 compliance and ALCOA guidance.

Attributable	Multi-level, Microsoft Active Directory Username and Password control creates unique electronic signatures for users
Legible records	Legible, secure PDF electronic record export for measurement results
Contemporaneously created	Secure PDF electronic records created in the counter - no manual data transcription or scanning of paper report
Original	Original electronic record created directly inside the counter
Accurate	Your SOPs and sampling maps uploaded into the counter with version control. Completed records reviewed and approved for accuracy in the counter remotely via web-browser. No manual counter configuration or sample location entry



To help you quickly locate data you need during an audit, you can use filters to review multiple parameters, including:

- Date
- User
- Location
- Failed logins
- Action type
- Alert level exceeded

Secure electronic records (Excel or PDF) can be exported directly to your network or to a USB device.

Each record contains:

- SOP version number
- User name
- Location name
- Time
- Date
- Alarms
- Counter configuration
- Sampling results
- Unlimited user defined fields, e.g. production batch ID, or room occupancy state, etc.

Designed for life in your cleanroom



Lighter to carry

At 12.4 lbs (5.6 kg)*, it's up to 26% lighter than earlier models.



Easier to use

Sensitive, 10-inch touchscreen enables reliable data entry even when users are double-gloved.

Optional barcode reader expedites data entry and minimizes potential for operator errors.



Quieter

New blower technology helps make the MET ONE 3400+ whisper quiet.



Easier to clean

Because it has a sealed touchscreen and stainless steel case, you can spray cleaners (VHP, bleach, alcohol) directly onto the instrument.

*Weight is without batteries

Networks so well so you don't have to

We live in an interconnected world, but for many GMP regulated devices to share data requires huge software integrations and validation. The MET ONE 3400+ has built-in, secure networking capabilities that are validated out of the box using our IQ / OQ protocols. A lightweight networking protocol securely protected via transport layer security (TLS) in the MET ONE 3400+ interconnects multiple devices and shares configuration and sample data in a secure and compliant manner. Ease the burden on your IT department with the new MET ONE 3400+ air particle counter.



Identical web browser experience to instrument for SOP configuration, user management, or training through a projector.

An instrument can be installed into a remote location and fully controlled for sampling via the remote web interface, allowing for central control or remote operation in areas where technicians are not permitted.

Better networking features

Machine Groups and Data Replication	Each MET ONE 3400+ assigned to a machine group will share user configuration, SOP configuration, and sample data to enable any machine in the group to have a complete view of the environmental monitoring status. A light weight protocol connects the instruments to exchange true uniquely identified copies of data and to insure all instruments are in sync.
Wireless Connectivity	The MET ONE 3400+ includes an 802.11b/g wireless interface with full security capability, including enterprise grade 802.1x certificate-based authentication using WPA EAP (PEAP, TLS, and TTLS variants) and WPA2/PSK.
Network Shares	Within the MET ONE 3400+, Windows Network Shares can be configured to allow a technician to generate a report and upload it to that directory. Windows authentication controls rights and access to the share using tools already commonly deployed in most enterprises.
Audit Trail	A GMP grade audit trail is included in the instrument, including information on logins, logouts, power events, sampling, electronic signatures, SOP updates, and other critical actions taken on the instrument. Built in filtering and reporting simplifies review and approval of audit events.

Product specifications

MET ONE 3400+ Specifications

Particle Counting Performance	MET ONE 3413+	MET ONE 3415+	MET ONE 3423+	MET ONE 3425+	MET ONE 3445+
Standard Sizes	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm	0.5, 1.0, 2.0, 3.0, 5.0, 10.0 µm	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm	0.5, 1.0, 2.0, 3.0, 5.0, 10.0 µm	0.5, 1.0, 2.0, 3.0, 5.0, 10.0 µm
Flow Rate	28.3 LPM (1.0 CFM)	28.3 LPM (1.0 CFM)	50 LPM (1.77 CFM)	50 LPM (1.77 CFM)	100 LPM (3.53 CFM)
Flow Rate Tolerance	±5%				
Time to sample 1 m³	35.3 minutes	35.3 minutes	20 minutes	20 minutes	10 minutes
Zero Count	1 count or less in 5 minutes, 95% confidence level				
Coincidence Loss	10% at 36,000,000 particles per m³	10% at 36,000,000 particles per m³	10% at 20,000,000 particles per m³	10% at 20,000,000 particles per m³	10% at 10,000,000 particles per m³
Counting Efficiency - 50%	50% ±20% for 0.3 µm	50% ±20% for 0.5 µm	50% ±20% for 0.3 µm	50% ±20% for 0.5 µm	50% ±20% for 0.5 µm
Counting Efficiency - 100%	100% ±10% for 0.45 µm	100% ±10% for 0.75 µm	100% ±10% for 0.45 µm	100% ±10% for 0.75 µm	100% ±10% for 0.75 µm
Light Source	Long Life Laser™ diode with 10-year Mean Time To Failure				
Pump Type	Filtered to ISO 3 specifications, 3/8" NPT pipe fitting				
Exhaust	3/8" NPT pipe fitting available				
Physical and Electrical Specifications					
AC Power Supply	Output: 24 VDC, 5.0 A Maximum; Input: 80-264 VAC, 47-63 Hz, 1.2 A Maximum				
Battery Type and Quantity	1, 2 or 3 Li Ion Rechargeable Smart Battery Packs				3 Li Ion Rechargeable Smart Battery Packs
Battery Life (Continuous Sampling) w/ 1 Battery	3 hours	3 hours	3 hours	3 hours	Pump will not operate
Battery Life (Continuous Sampling) w/ 2 Battery	6.25 hours	6.25 hours	6.5 hours	6.5 hours	4 hours
Battery Life (Continuous Sampling) w/ 3 Battery	9.25 hours	9.25 hours	9.75 hours	9.75 hours	5.5 hours
Maximum Battery Recharge Time	3.5 hours (with 2 batteries)				6.75 hours (with 3 batteries)
Dimensions	26.7 cm W x 26 cm H x 21 cm D (10.5" W x 10.25" H x 8.25" D)				
Weight (without battery)	5.6 kg (12.4 lbs)				
Weight (with included batteries)	6.5 kg (14.3 lbs) with 2 batteries				6.9 kg (15.3 lbs)
Enclosure Material	316 Stainless Steel				
Operating Temperature and Humidity	0 to 40°C (32 to 104°F), 10 to 90% relative humidity, non-condensing				
Storage Temperature and Humidity	-20 to 50 degree C (-4 to 122 F), 0 to 98% relative humidity, non-condensing				
User Interface					
Screen	10" High Resolution LCD				
Interface	High sensitivity capacitive touch screen - works with dual gloves				
Alarms	Unlimited user defined alarms per channel or external environmental sensor				
Sampling Configuration Options	Sample by time or volume, up to 100 cycles, with user defined time intervals				
Electrical Interfaces					
USB Host	3 Type A USB 2.0 Host Ports				
USB Device	1 Type B USB Device Port				
Ethernet	1 802.3 Compliant 10/100 BASE-TX Auto negotiating with Auto MDI-X				
WiFi	802.11 b/g 2.4 GHz WiFi Radio				
Environmental Probe	Proprietary DIN port for Relative Humidity and Temperature sensor probe PN 2088373-01				

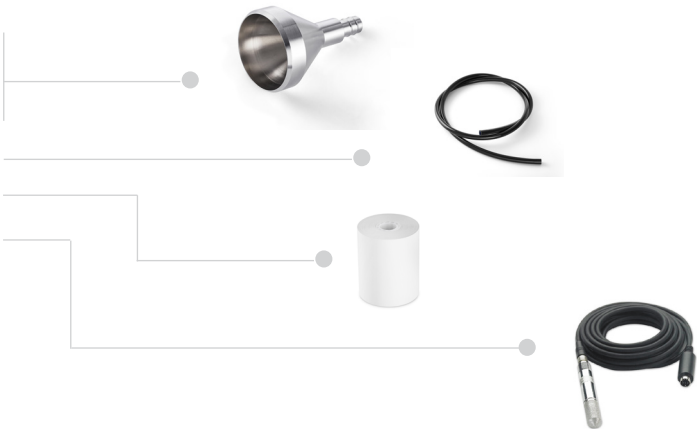
Ordering information

		Sample Flow Rate	Minimum Particle Size
D30768	APC, Port, MET ONE 3413+	28.3 LPM	0.3 µm
D30769	APC, Port, MET ONE 3415+	28.3 LPM	0.5 µm
D30770	APC, Port, MET ONE 3423+	50 LPM	0.3 µm
D30771	APC, Port, MET ONE 3425+	50 LPM	0.5 µm
D30772	APC, Port, MET ONE 3445+	100 LPM	0.5 µm



Each part number includes the instrument, 2 batteries, power supply, ISO probe and stand, 10 feet of tubing, and a cleaning brush. C38687 includes 3 batteries.

Part Number	Description
C64707	Probe, Isokinetic, SS, for 100 LPM
C64708	Probe, Isokinetic, SS, for 28.3 LPM
C64709	Probe, Isokinetic, SS, for 50 LPM
C64713	Tubing, Hytrel®, 3/8"ID, 1/2"OD (10' Long)
C64705	Paper, Thermal 58mm Wide Roll (Pack of 10)
2088373-01	Probe, Relative Humidity & Temperature
C64706	Battery, Power Supply, External 24VDC 3400+
C64693	External Dual Battery Charger
C64408	Cordset, IEC Type I, Australia
C64410	Cordset, IEC Type N, Brazil
C64412	Cordset, IEC Type E, Europe
C64413	Cordset, IEC Type D, India
C64414	Cordset, IEC Type F, Korea
C64415	Cordset, IEC Type G, UK
C50352	Cap, I/O Connectors 3400+
C56591	Wheeled, Hard Sided Transit Case 3400+





MET ONE 3400+ Series

Portable Air Particle Counter



Smart Environmental Monitoring for GMP Cleanrooms

The MET ONE 3400+ Series Air Particle Counter sets a new standard for pharmaceutical cleanroom classification and environmental monitoring. Designed for simplicity, compliance and efficiency, it transforms complex SOPs into interactive, on-screen workflows—directly on the device. No paper checklists, no separate software, just smarter sampling while supporting ISO 14644 and EU GMP Annex 1 requirements.

Key Features

- **Interactive SOP Sampling Maps**
 - Upload your routine environmental monitoring SOPs and maps directly into the counter, then simply follow step-by-step guidance on the screen.
- **Web-Based Remote Access**
 - Access the instrument via a standard web browser—no additional software needed. Perform review and approval workflows, manage SOP versions and export electronic records seamlessly.
- **Built-In Audit Trail & Compliance Tools**
 - Signatures and access controls help enable 21 CFR Part 11 compliance.
 - Uses Microsoft Active Directory for centralized user authentication and authorization.
- **Seamless IT Integration**
 - Easy configuration with Microsoft Active Directory enables fast deployment and secure operation within your existing infrastructure.

Benefits

- **Reduce Training Time**
 - Interactive maps simplify onboarding and daily operation, even for new users.
- **Minimize Sampling Errors**
 - Guided workflows help ensure consistency and data integrity across all locations.
- **Streamline Compliance**
 - Support 21 CFR Part 11 compliance with secure login, audit trails and e-signatures—all built in.
- **Accelerate Audits and Reporting**
 - Quickly locate and filter records during inspections with electronic records.
- **Simplify Installation and Validation**
 - Everything you need is built into the instrument, reducing software overhead.

Whenever you have questions, your representative is just a conversation away.



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2026-AMER-EN-109216-v1



 **MET ONE 6000 Series Remote
Airborne Particle Counters**

High performing, reliable 0.3 μm sensitivity remote sensor

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MET ONE 6000 Series Remote Airborne Particle Counters

The MET ONE 6000 series of ISO 21501-compliant counters are the most reliable, top-performing, high-sensitivity remote particle counters



High performance

0.3 μm sensitivity counter designed for ISO 21501 compliance for data accuracy and reliability

Easy to integrate with any FMS system

Multiple communication options such as pulse, serial modbus, Ethernet, wireless and analog

Long Life Laser diode

Reduces the need for replacement parts and the overall cost of ownership

Faster troubleshooting and reduced downtime

Instrument can be diagnosed for flow, sensor, communication failures, and count alarm or count alert through built-in or external light stack

Installation options and DIP switches

Reduces initial installation cost and subsequent reinstallation cost during routine maintenance/calibration work

Built-in flow sensor

Reduces the need for replacement parts and the overall cost of ownership



Port Sizes	Model 6003 0.32 cm (1/8-inch) ID inlet 0.64 cm (¼ in) ID outlet Model 6005 0.32 cm (1/8-inch) ID inlet 0.64 cm (¼ in) ID outlet Model 6015 0.64 cm (¼-inch) ID inlet 0.64 cm (¼ in) ID outlet
Flow Rate	Model 6003 0.1 CFM (2.83 LPM) Model 6005 0.1 CFM (2.83 LPM) Model 6015 1.0 CFM (28.3 LPM)
Sensitivity	Model 6003 0.3 µm at 0.1 CFM (2.83 LPM) Model 6005 0.5 µm at 0.1 CFM (2.83 LPM) Model 6015 0.5 µm at 1.0 CFM (28.3 LPM)
Range	Model 6003 0.3 µm to 10.0 µm at 0.1 CFM (2.83 LPM) Model 6005 0.5 µm to 10.0 µm at 0.1 CFM (2.83 LPM) Model 6015 0.5 µm to 10.0 µm at 1.0 CFM (28.3 LPM)
Channel Sizes	Standard 2-Channel Optional 4-Channel* Model 6003 0.3 and 0.5 µm 0.3, 0.5, 1.0 and 5.0 µm Model 6005 0.5 and 5.0 µm 0.5, 1.0, 5.0 and 10.0 µm Model 6015 0.5 and 5.0 µm 0.5, 1.0, 5.0 and 10.0 µm
Counting Efficiency	Model 6003 50% (± 20%) for 0.3 µm, (100% ± 10% at 1.5 times the minimum sensitivity). Fully complies with ISO21501-4. Model 6005 50% (± 20%) for 0.5 µm, (100% ± 10% at 1.5 times the minimum sensitivity). Fully complies with ISO21501-4. Model 6015 50% (± 20%) for 0.5 µm, (100% ± 10% at 1.5 times the minimum sensitivity). Fully complies with ISO21501-4.

The MET ONE 6000 series remote airborne particle counter offers accurate and reliable continuous particle monitoring. With a sensitivity range of 0.3 to 10 µm, data accuracy and repeatability through ISO 21501-compliant calibration, these counters are designed to meet the specific needs of cleanroom operations within the pharmaceutical, semiconductor, hard disk drive and flat panel display industries.

With an array of communication and mechanical installation options, the MET ONE 6000 is easy to integrate with any facility monitoring system. These features also reduce downtime for instrument removal and reinstallation during routine calibration and preventive maintenance cycles. Built with Long Life Laser™ technology, MET ONE 6000 counters offer industry-leading diagnostic features that reduce troubleshooting time and related downtime costs.

Light Source	Long Life Laser™ diode		
Weight	0.82 kg (1.8 lbs)		
Dimensions	13.56 w x 8.93 d x 12.06 h cm (5.34 x 3.52 x 4.75 in)		
Enclosure	304 stainless steel		
Status Indicator	Multi-colored LED for normal status, count alarm, count alert, sensor failure, flow failure or communication failure		
Power Requirements	9 to 28 VDC		
Power Consumption	Serial and pulse units: 3.3 W; Ethernet unit: 4.3 W; Analog: 3.5 W; Wireless: 7.1 W. Maximum amperage requirement: 1 A		
Operating Temperature	4-40° C (40-104° F)		
Storage Temperature	-40° to 70° C (-40° to 158° F), 5 to 98% relative humidity, non-condensing		
Signal Output Options	Pulse Analog 4-20 mA Serial RS-232 Serial RS-485 with Modbus RTU or FXB communication protocol Ethernet or Wireless with TCP/IP protocol		
Vacuum Requirements	At least 40.6 cm (16 in) Hg		
Number of Size Channels	Standard 2 or Optional 4 (pulse units have 2 channels only)		
Flow Control	Through critical orifice		
Coincidence Loss	6003/6005: 10% at 4,000,000 particles/m ³ (140,000,000 particles/ft ³) 6015: 10% at 566,000 particles/m ³ (20,000,000 particles/ft ³)		
False Count Rate	One or less in five minutes		
Accessories Included	DIN Rail Mounting Kit, Isokinetic Probe, Male Phoenix Terminal Strip with Cover, Operator Manual		
How To Order	20886 1 2 - 3 4 - 5	1	0 = 0.1 CFM flow rate 1 = 1.0 CFM flow rate
		2	2 = 0.2 µm minimum size 3 = 0.3 µm minimum size 5 = 0.5 µm minimum size
		3	D = bottom (down) exhaust S = side exhaust
		4	F = with flow measurement N = without flow measurement
		5	S = serial I/O communication module* E = Ethernet I/O communication module A = analog I/O communication module W = wireless **
Optional Accessories***	4-Channel Setting (Pulse models have two channels only) Wall Plate Mounting Kit Utility Terminal Box Mounting Kit Purge Filters, 1.0 CFM 1/4 Tube and 0.1 CFM 1/8 Tube Isokinetic Probes, 0.1 CFM and 1.0 CFM Cable, Service Port Connector with RS-232 Converter Relative Humidity/Temperature Probe Brackets, for RH/Temp Probe and LED Indicator Stack/Isokinetic Probe Remote Indicator Light Assembly Cable Assembly, 3 m for Remote Indicator Light Assembly Cable Assembly, RJ-45 Adapter Power Supply Unit, 24 VDC @ 5.0 A, Universal Input for FMS		

* If a serial I/O model is ordered, a second part number 2088600-232, 2088600-485, or 2088600-PLS must be ordered that will identify the serial I/O configuration as RS-485, RS-232, or Pulse, respectively.

** Wireless models are available in a limited number of countries. Contact your Beckman Coulter Life Sciences sales representative for details.

*** For a comprehensive parts and accessories list, please refer to the user manual.



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MET ONE 7000

Remote Air Particle Counter



The MET ONE 7000 Remote Air Particle Counter is a high-precision instrument designed for non-viable particle monitoring in aseptic and sterile environments. Built to withstand rigorous pharmaceutical cleanroom standards, it ensures compliance with cGMP, FDA and ISO 21501 requirements while delivering reliable performance in critical applications.

Key Features

- **ISO 21501-Certified Accuracy**
 - Delivers precise particle measurements for consistent, repeatable performance.
- **Stainless Steel NEMA 4X Enclosure**
 - Provides a VHP-tolerant, wash-down-ready, chemical-resistant housing suitable for pharmaceutical cleanrooms.
- **Built-In Flow Sensor**
 - Monitors flow rate continuously to support stable and compliant operation.
- **Dual Particle Size Detection**
 - Measures 0.5 μm and 5.0 μm particles at 0.1 CFM or 1.0 CFM flow rates.
- **Long-Life Laser Diode**
 - Supports continuous operation with minimal maintenance requirements.
- **Open Architecture Design**
 - Integrates with any Facility Monitoring System (FMS).
- **Flexible Communication Options**
 - Supports Pulse, Serial Modbus, Ethernet, Wireless, and Analog outputs.
- **Comprehensive Documentation**
 - Includes technical guides and application notes for straightforward setup.
- **Benefits**
 - Strengthen Regulatory Confidence
 - Maintain compliance with FDA and global GMP expectations with certified, reliable performance.
- **Increase Long-Term Durability**
 - Rely on a rugged, cleanroom-ready design that minimizes maintenance needs.
- **Improve Data Reliability**
 - Use high-accuracy measurements to support quality assurance and inspection readiness.
- **Accelerate Integration**
 - Reduce deployment time through universal compatibility and multiple communication paths.
- **Lower Total Cost of Ownership**
 - Minimize downtime and service expenses with long-lasting components and stable operation.
- **Streamline Validation**
 - Access clear documentation and application notes to simplify qualification and compliance processes

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