

Two-channel Remote Sensor for Facility Monitoring System (PoE Ready)



HAL-RPC200

Features

- Simultaneously monitors two channels
- Warning for excess of count limit
- TCP/IP communications
- True Ethernet connection for high-speed data transmission
- PoE ready for auto power and control
- 24/7 continuous remote monitoring
- Stainless Steel housing
- Flexible power options

The HAL-RPC200 Remote Particle Counter is the key element of an intelligent multipoint remote facility monitoring system. It is useful in measuring particle concentrations in ultra-clean environments by its single particle counting ability and classification of a clean facility. The data collection and sampling time interval can be remotely carried out by a remote computer terminal. The system can sample 24/7 continuously and remotely monitor the status of the clean facility and give warning of an excess of count limit preset by the user. It is in compliance with international standards (JIS B 9925:1997 and ISO14644-1) and has CE certification.

The unique features of this system are it's easily integrated via Ethernet (TCP/IP) communications and scalable. The remote units can be configured to as many as needed for your application; upwards to 1000 sensors can be installed within one facility system. The instrument can be powered over its Ethernet connection PoE (Power-Over-Ethernet compliant with IEEE 802.3af) for simplicity of system installation or a local power supply. Configuring your installation can be done locally with a PC or via a web browser.



Applications

- Ultra-clean facility monitoring
- Trace contamination source
- Excess of count limit warnings
- 24/7 remote continuous monitoring

Particle Size	0.3, 0.5µm (User configurable)
Light Source	Laser Diode
Coincidence	< 5% @ 2,000,000 particles per
Loss	cubic feet
Flow Rate	2.83 Liter/min (0.1cfm)
Counting	100±10% @ 0.5µm
Efficiency	
Zero Count	<1 count per 5 minutes
Calibration	JIS-B-9921 (1997), ASTM-F649-
Standard	01, ASTM-F328-98 (NIST
	traceable)
Warning for	Class 1—100,000 (FED209E) or
Excess of	2—9 (ISO14464-1)
Limit	,
Monitoring	Continuous
Error	Excess of maximum count limit,
Indication	laser degradation
Interface	RJ45 (TCP/IP, PoE ready)
	Green: Power on and system
Status	ready
Indication	Red: System or communication
	errors
Power	PoE or local AC adapter 6 ~
	9VDC/100mA
Dimensions	104 (W) × 64 (D)× 38 (H) mm
Weight	< 350 grams
Environmental	Operating: 5 ~ 50 ℃, < 90%RH
Conditions	Storage: -20 ~ 65 °C, < 90%RH
Standard	Kinetic probe, user manual, AC
Accessories	adapter, calibration certificate
Optional	Application software for facility
	monitoring system, router or PoE
	ready router.

Specifications