

Remote Particle Counter AH-1310 1.0 CfM



Introduction

The **AH-1310** particle counters provide a range of particle size measurement from 0.3 to 10.0 μm at a flow rate of 1.0 CFM (28.3 LPM). These sensors allow for efficient particle counting with specifications that exceed the ISO 21501-4 and JISB9921 calibration standards.

Specification

Model	1310	1310p
Size Range	0.3 to 10.0 μm	0.3 to 10.0 μm
Size Channels	Factory calibrated at 0.3, 0.5, 5.0, 10.0 μm	Factory calibrated at 0.3, 0.5, 5.0, 10.0 μm
Number of Channels	2/4/6 channels	2/4/6 channels
Vacuum Requirements	External vacuum pump	Internal vacuum pump
Concentration Limits	1,500,000 Particles/ft ³ @ 10% coincidence loss	
Flow Rate	1.0 CFM (28.3 LPM)	
Zero Count	< 1 count / 15 minutes (< 1 particles / 15ft ³)	
Light Source	Long life laser diode	
Counting Efficiency	50% @ 0.5 μm ; 100% for particles > 0.75 μm per JIS	
Calibration	NIST traceable	
Airflow	Internally monitored	
Alarm	Four LED	
Communication Modes	MODBUS™ RTU or ASCII outputs (over isolated RS-485)/TCP-IP/WIFI	
Standards	ISO 21501-4 and JIS B9921	
Instrument Calibration	Recommended minimum once per year	
External Surface	Stainless steel SS316L	
Accessories	Wiring Connector, operating manual ,ISO Kinetic probe, cap,	
Optional Accessories	Power Supply, Remote Mounting Bracket, Stainless Steel Barbed Isoprobe (1.0 CFM/28.3 LPM), Purge Filter Assembly, and Sample & Vacuum Tubing, Display , hepa filter	
Buffer Memory	128GB sample records (rotating buffer) including particle count data and environmental data	
Sample Time	1 second to 99 hours	
Power	24 VDC s	
Operating Conditions	41° to 104°F (5° to 40°C) / 20% to 95% non-condensing	
Storage Conditions Storage Conditions	32° to 122°F (0° to 50°C) / Up to 98% non-condensing	
Warranty	1 year limited warranty. Extended Warranties available	

Features and Benefit

- AH-1310: Measures 0.3 μm to 10.0 μm
- 1.0 CFM (28.3 LPM) flow rate
- Particle concentrations up to 1,500,000 Particles/ ft^3 @10% coincidence loss
- Long life laser diode technology s easy via isolated RS-485
- Measures up to 6 channels of simultaneous data
- User-selectable channel sizes
- Stores up to 128 GB sample records for on-board data redundancy
- Internal critical orifice
- (Optional) temperature and relative humidity probe available
- Complies with ISO 21501-4 and JIS B9921 standards
- Connect using Modbus RTU/ASCII over isolated RS-485/TCP-IP/WI-FI
- Easy to clean and wipe down with minimal particle traps.
- Smart LED display optional
- Four LED indicators
- SS316L Enclosure
- 1 year warranty. Extended warranties available

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