

AM II-16 & AM II-32 Aerosol Monitoring Accessory

Aerosol Manifold II from Particle Measuring Systems offers advanced features for sequentially monitoring aerosol contamination at multiple locations with a single particle counter. The AM II is ideal for trend analysis and cleanroom verification when continuous monitoring is not needed.

BENEFITS

Cost Effective

- Most economical monitoring of fixed points at timed intervals; lowest cost per sample location
- Samples much larger area than single particle counter
- Ethernet communications to facility monitoring system

Flexible

- Easily programmed sampling routine, whether simple or complex sequence
- Automatically changes sampling recipe upon receiving alarm or external signal
- Drop-in replacement for older AM 12/24/30 manifolds
- Large coverage radius: Each sampling point can be up to 125 feet away

Rapid and Accurate Measurements

- Using LASAIR® II's patented flow control, this is the only manifold that properly compensates for manifold pressure drop, eliminating systematic particle undercounting of up to 15%
- Maintains constant flow (nominal 3 CFM) at each sample location to minimize gravitational settling
- With isokinetic sampling probes, captures particles at same velocity as sample air, preventing distortion in particle size relationships

Without measurement, there is no control.



FEATURES

- Multiplexed monitoring of up to 32 locations with single particle counter
- Controlled by Facility Net or Pharmaceutical Net software
- Programmable recipes and sampling point sequence
- Assembly designed to eliminate contaminating valves
- Alarm for low vacuum; automatic shut-off for pump overheating

APPLICATIONS

- Facility monitoring
- Monitoring large minienvironments
- Cleanroom verification and trend analysis

COMPATIBILITY

- With LASAIR II: AM II uses full-features
- With LASAIR, Micro LPC or LPS-A: AM II offers same features as AM12/24/30

Specifications

Aerosol Manifold II

Manifold System	AM II-16	AM II-32
Sample ports:	Max. 16, Min. 10	Max. 32, Min. 22
Operating range:	Use in locations Class 100,000 (ISO 8) or cleaner 0.1 to 0.3 μm particle counters: Use to simultaneously monitor Classes 1, 10, 100, and 1000 (ISO 3, 4, 5, and 6) 0.5 to 5.0 μm particle counters: Use to simultaneously monitor Classes 100, 1000, 10,000, and 100,000 (ISO 5, 6, 7, and 8)	

Manifold Pump

Model:	Siemens 2BH1400	Siemens 2BH1600
Pumps required:	1 (single phase)	1 (three phase)
Flow rate:	>100 CFM	>150 CFM
Safety provision:	Automatic pump shut-off	Automatic pump shut-off
Power:	105-125 VAC, 60 Hz; 220-240 VAC, 50 Hz 10.9 Amp, single phase	415-480 VAC, 60 Hz 5.0 Amp, three phase
Dimensions (l, w, h): Weight:	10.6" x 11.2" x 16.2" (27 x 28 x 41 cm); 42 lbs. (19 kg)	16.7" x 15" x 20" (47 x 38 x 51 cm); 75 lbs. (34 kg)

Manifold Module

Flow rate:	3 CFM per port (nominal)
Purge time (between ports):	Minimum 15 second recommended
Cross talk (from other ports):	< 0.1%
Sample tubing:	BEV-A-Line 1/2" OD, 3/8" ID (part # MI-153)
Sample tubing length and bends:	Minimum 25', Maximum 125' per port. Minimum 9" radius for BEV-A-Line.
Fittings provided:	16 (or 32) self-locking, 1/2" OD, 3/8" ID tubing
Vacuum required:	30"-55" H ₂ O
Mounting orientation:	Vertical; wall mounting bracket included
Power:	Provided by control box via controller cable
Dimensions (l, w, h): Weight:	13.5" x 13.5" x 15.25" (34 x 34 x 39 cm); 13.5 lbs. (6.1 kg)

Control Box

Controlling software:	Facility Net/Pharmaceutical Net
Communications protocol:	Ethernet, RS-485 via LAN-Node (only to LPS-A)
Firmware setup modes:	RS-232, Telenet
Ethernet outlets (3)	Facility Net, Lasair II, mixed air sensor
Automatic alarm:	Inadequate manifold air flow
Mounting:	Vertical or horizontal; built-in mounting holes
Power:	105-125 VAC, 60 Hz; 220-240 VAC, 50 Hz
Dimensions (l, w, h): Weight:	7" x 8.5" x 12.5" (18 x 22 x 32 cm); 11.5 lbs. (19 kg)
System operating conditions:	Temperature 15-35 °C; Humidity: non-condensing

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System Components Included: Manifold module, control box, and pump, operations manual, power cord, control cable, wall-mounting bracket, monitor exhaust tubing, pressure sensor tubing, pump tubing, and clamps.

Not included: ISPs, sample tubing, communications cables (manifold to monitor), PC, Facility Net or Pharmaceutical Net software.

AUTHORIZED REPRESENTATIVE



Registration applies to the Boulder, Colorado facility



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