



## UNIVERSAL MANIFOLD & MANIFOLD CONTROLLER

The Lighthouse **UNIVERSAL MANIFOLD AND MANIFOLD CONTROLLER** is the most affordable solution in the market when you need to monitor large areas for particulate contamination.

The **UNIVERSAL MANIFOLD** collects data from up to 32 locations via multiplexed monitoring. Lighthouse's new manifold flow system allows for a shorter purge time which will increase your number of samples per day. It can be configured, controlled and the user can even view data directly from the Manifold Controller. The Manifold Controller can be placed up to 4,000 ft away from the manifold to allow remote control and data viewing of the manifold. The **UNIVERSAL MANIFOLD** performs user programmable data sampling and alarms when low flow conditions occur.

The **UNIVERSAL MANIFOLD** interfaces with Lighthouse particle counters as well as with existing building automation and factory management systems. This solution provides the lowest cost per point on the market.

Designed and built by **Lighthouse**, a name you can trust.

### *Features:*

- ★ Multiplexed Monitoring of Up to 32 Locations
- ★ Color LCD Display
- ★ Localized Control
- ★ User Programmable Sampling
- ★ Localized Data Viewing (Current and Historical)
- ★ Low Flow Alarm
- ★ Reduced Purge Times
- ★ RS-485/Modbus
- ★ Stainless Steel Construction
- ★ Interfaces with Other Existing Building Automation and Factory Management Systems

### *Benefits:*

- ★ 2 Year Warranty
- ★ Cost Effective Price per Point
- ★ Monitors Large Areas
- ★ Easy System Integration
- ★ International Support
- ★ Low Cost of Ownership

### *Applications:*

- ★ Cleanroom Monitoring
- ★ Facility Monitoring
- ★ Monitor SMIF and FIMS Enclosures
- ★ Verify Cleanroom Performance
- ★ Trend Analysis
- ★ Cleanroom Laundries
- ★ Cleanroom Packaging
- ★ Semiconductor
- ★ Aerospace
- ★ Hard Disk Drive Manufacturing
- ★ Pharmaceutical Packaging and Manufacturing



## Specifications

### Manifold System

Sample Ports: Up to 32 locations

### Manifold Pump

Safety Provision: Automatic pump shut-off  
Power: 208, 415 VAC - Three Phase  
Dimensions: 15" (w) x 20" (h) x 16.7" (d) [47 x 38 x 51 cm]  
Weight: 75 lb (34 kg)

### Manifold Module

Flow Rate: 3 CFM (84.9 LPM) per port (nominal)  
Cross-Port Contamination: <0.01%  
Particle Sample Tubing: Particle transport tubing 1/2" OD, 3/8" ID (1.25 cm OD, 0.94 cm ID)  
Sample Tubing Length: Up to 125' (38 m) per port  
Fittings Provided: 32 self-locking, 1/2" (1.25 cm) OD tubing connection  
Power: 100-240 VAC, 50-60 Hz  
Dimensions: 21.6" (l) x 12" (w) x 12.75" (h)  
Weight: 16 lbs 6 oz

### Control Box

Controlling Software: Communicates with the Lighthouse Monitoring System and most other manufacturers' Building Automation Systems and Factory Automation Systems  
Communications Protocol: RS-485/Modbus  
Dimensions: 5.75" (l) x 8" (w) x 6.75" (h)  
Weight: 4 lbs 6 oz

### Environmental Conditions

Operating: 50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing  
Storage: 14°F to 122°F (-10°C to 50°C) / Up to 98% non-condensing

### Accessories

Included: Operating Manual  
Optional: Manifold System Vacuum Pump, Isokinetic Sample Probe, Tubing

Manufactured by:



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