

# Fume Hood Monitor

**Model FHM10** 



### Fume hoods are a primary source of protection in laboratories.

Face velocity measurements are often used to gauge the performance of a fume hood's ability to contain and exhaust hazardous chemicals. By accurately measuring face velocity and alarming on unsafe conditions, TSI's FHM10 Fume Hood Monitors provide a high level of fume hood safety. And, the FHM10 helps users comply with standards and regulations set forth by OSHA, NFPA, ANSI Z9.5, and SEFA, calling for monitors to be installed on fume hoods.

#### Applications

- Research Laboratories
- Life Science and Pharmaceutical
- Universities and Academic
- Vivariums
- Healthcare Facilities

#### **Features and Benefits**

- Accurately measures average fume hood face velocity
- Temperature compensated sensor for accurate measurement as temperatures change in laboratories
- Visual, audible, and remote alarms warn users of unsafe conditions
- Analog output provides additional information
- Assists in managing risk by communicating fume hood status information to Building Management System (BMS)
- Seamless integration to BMS via BACnet<sup>®</sup>, LonWorks<sup>®</sup>, or Modbus<sup>™</sup>
- Easy installation and calibration
- Easy configuration using keypad
- Large display provides detailed fume hood information
- Surface or flush mount options available
- Optional Flow Monitor available

## Specifications Fume Hood Controller Model FHM10

<b>Display Range</b> 0 to 1,000 fpm (0 to 5.08 m/s) 0 to 10,000 cfm (0 to 4,720 l/s, 0 to 16,990 m³/hr)		FHM10-01	FHM10-02	
Low Alarm Range	TSI's Sidewall Velocity Sensor	•		
5 to 980 fpm (0.03 to 4.98 m/s) 0 to 10,000 cfm (0 to 4,720 l/s, 0 to 16,990 m³/hr)	Visual and Audible Alarms	-		
High Alarm Range				
80 to 1,000 fpm (0.41 to 5.08 m/s) 0 to 10,000 cfm (0 to 4,720 l/s, 0 to 16,990 m³/hr)	Flow Input		•	
Analog Outputs				
0-10 VDC or 4-20 mA Represents Face Velocity, or Flow Rate	Contact Inputs	С	С	
Alarm Contact Outputs				
SPST, 2A @ 30 VDC Nominal	Analog Outputs	С	С	
Contact Inputs				
Night Setback, Flow	Alarm Contact Outputs	-	-	
Communcation Options				
• Modbus, N2, BACnet MS/TP, LonWorks	RS-485 (Modbus, Johnson N2)	•	-	
Input Power				
24 VAC, 50/60 Hz or 15-40 VDC 5, Watt Maximum	BACnet MS/TP or LonWorks Compatible	0	0	
Operating Temperature	= Feature of Instrument			
32 to 120° F (0 to 48.9° C)	C = Optional versions available C = Configurable - see manual for options			
Size (H x W x D)				
6.67" x 2.92" x 1.25" (16.9 cm x 7.4 cm x 3.2cm)	Specifications are subject to change without notice.			
Weight	TSI and the TSI logo are registered trademarks of TSI Incorporated in the United States and may be protected under other country's trademark registrations.			
0.5 lb (225 g)	Modbus, LonWorks, and BACnet are registered trademarks of Modicon Inc., Echelon Corp., and ASHRAE respectively.			
Ontional Accessories				

#### **Optional Accessories**

800920Slimline Monitor800926Flush Mounting Bracket



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