

# Model FHM10-01 Fume Hood Monitor

## Description

The Model FHM10-01 monitor uses a sidewall sensor to continuously measure fume hood face velocity. The Model FHM10-01 will warn the user if the face velocity drift too high or too low to indicate possible loss of containment events.

The Model FHM10-01 easily integrates to the building management system, using digital communications, such as BACnet®, LonWorks® or Modbus®, and alarm relays.



## Features

- Continuous face velocity measurement with audible and visual alarms warns staff of unsafe conditions.
- Complies with industry guidelines including ANSI Z9.5, NFPA 45 and SEFA 1.2 requiring fume hood monitors.
- Network communications allow building automation system to log hood status.
- Convenient keypad and display support local programming.
- Password prevents unauthorized access to controller functions.

## Selection Chart

	FHM10-01	FHM10-02
Continuously monitors fume hood face velocity	•	
Continuously monitors flow rate		•
BACnet® MS/TP Communications	○	○
LonWorks® Communications	○	○
Modbus® / N2 Communications	○	○
Setback Input	•	•
Low (Velocity / Flow) Alarm Contact	•	•
High (Sash Position / Velocity / Flow) Alarm Contact	•	•
Analog Output	•	•
Venturi valve flow input		•
Flow station flow input		•

## Items Included

- Monitor
- Transformer cable, 25 ft (7.6 m)
- Sidewall sensor with cable

## Hardware Options

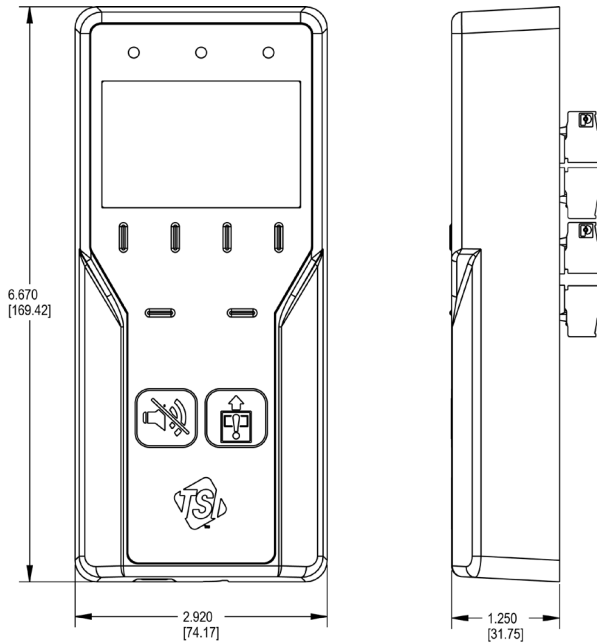
- Vent kit
- Dual vent kit for 8-ft (2.4 m) and larger hoods
- 120:24V transformer, 50 VA
- Flush-mount bracket
- Slimline interface

Modbus is a registered trademark of Modicon Incorporated.  
LonWorks is a registered trademark of Echelon Corporation.  
BACnet is a registered trademark of ASHRAE



## Controller Specifications

<b>Display Range</b>	0 to 1000 fpm (0 to 5.08 m/s)
<b>Low Alarm Range</b>	5 to 960 fpm (0.03 to 4.88 m/s)
<b>High Alarm Range</b>	80 to 1000 fpm (0.41 to 5.08 m/s)
<b>Analog Output</b>	0 to 10 VDC or 4 to 20 mA Represents Face Velocity
<b>Inputs</b>	Sash Position, Night Setback
<b>Communications</b>	Modbus®, N2, BACnet® MS/TP, LonWorks®
<b>Alarm Contacts</b>	SPST*, 60-W max 2A @ 30 VDC Nominal
<b>Input Power</b>	24 VAC, 50/60 Hz or 15-40 VDC 5 Watt Maximum
<b>Operating Temp.</b>	32 to 120°F (0 to 48.9°C)
<b>Size (HxWxD)</b>	6.67 x 2.92 x 1.25 in (169 x 74 x 32 mm)
<b>Weight</b>	0.5 lb (0.2 kg)

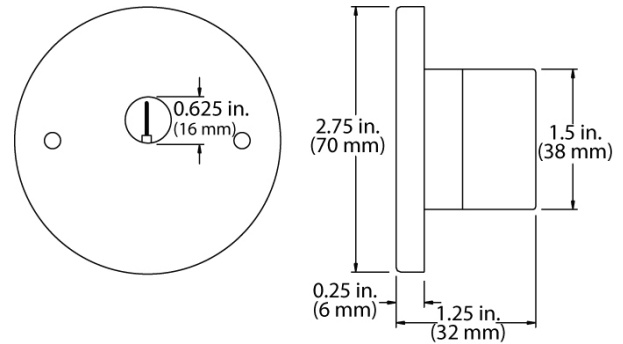


\*Relays close to indicate loss of power.

Specifications subject to change without notice.

## Sidewall Sensor Specifications

<b>Range</b>	0 to 1000 fpm (0 to 5.08 m/s)
<b>Resolution</b>	1 ft/min
<b>Temp. Comp Range</b>	55 to 95°F (12 to 35°C)
<b>Power Dissipation</b>	0.09 W at 0 fpm (0 m/s) 0.14 W at 100 fpm (0.50 m/s)
<b>Size (DxH)</b>	2.75 x 1.25 in (70 x 32 mm)
<b>Weight</b>	0.2 lb (0.1 kg)



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