

CONTROLLED ENVIRONMENTS

Critical Environments



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®, LonWorks®, or Modbus™
- 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

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



TRUST. SCIENCE. INNOVATION.



Specifications

Model FHM10
Fume Hood Monitor

Display Range

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)

Low Alarm Range

5 to 960 fpm (0.03 to 4.88 m/s)
0 to 10,000 cfm (0 to 4,720 l/s, 0 to 16,990 m³/hr)

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)

Analog Output

0-10 VDC or 4-20 mA
Represents Face Velocity, or Flow Rate

Alarm Contacts

SPST, 2A @ 30 VDC Nominal

Inputs

Night Setback, Flow

Communications

Options: Modbus, N2, BACnet MS/TP, LonWorks

Input Power

24 VAC, 50/60 Hz or 15-40 VDC, 5 Watt Maximum

Operating Temperature

32 to 120° F (0 to 48.9° C)

Size

6.67" H X 2.92" W X 1.25" D (16.9 cm X 7.4 cm X 3.2cm)

Weight

0.5 lb (225 g)

Optional Accessories

800920
800926

Slimline Monitor
Flush Mounting Bracket

	FHM10-01	FHM10-02
TSI's Sidewall Velocity Sensor	•	
Visual and Audible Alarms	•	•
Flow Input		•
Contact Inputs	C	C
Analog Outputs	C	C
Alarm Contact Outputs	•	•
RS-485 (Modbus, Johnson N2)	•	•
BACnet MS/TP or LonWorks Compatible	O	O

• = Feature of Instrument O = Optional versions available C = Configurable - see manual for options

Specifications are subject to change without notice. Modbus, LonWorks, and BACnet are registered trademarks of Modicon Inc., Echelon Corp., and ASHRAE respectively.

TSI Incorporated - 500 Cardigan Road, Shoreview, MN 55126-3996 USA
USA Tel: +1 800 874 2811 E-mail: info@tsi.com Website: www.tsi.com
UK Tel: +44 149 4 459200 E-mail: tsiuk@tsi.com Website: www.tsiinc.co.uk
France Tel: +33 491 11 87 64 E-mail: tsifrance@tsi.com Website: www.tsiinc.fr
Germany Tel: +49 241 523030 E-mail: tsigmbh@tsi.com Website: www.tsiinc.de
India Tel: +91 80 41132470 E-mail: tsi-india@tsi.com
China Tel: +86 10 8251 6588 E-mail: tsibeijing@tsi.com
Singapore Tel: +65 6595 6388 E-mail: tsi-singapore@tsi.com



TRUST. SCIENCE. INNOVATION.

Contact your local TSI Distributor or visit our website www.tsi.com for more detailed specifications.