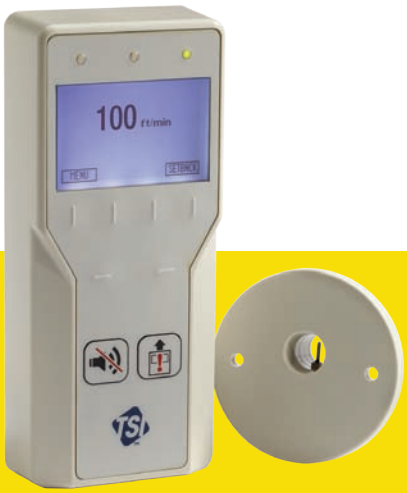
FUME HOOD CONTROLLER
MODEL FHC50



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 harmful vapors. By measuring and controlling face velocity, TSI FHC50 Fume Hood Controllers provide a higher level of fume hood safety and energy efficiency.

Applications

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

Options

+ Fume Hood Control
  - Using side-wall velocity sensors
  - Utilizing sash sensors
  - Combining side-wall and sash sensors
+ Flow Control
  - Using pressure-based or thermal flow stations
  - Utilizing linear venturi valves
+ Controls dampers or valves with fast-acting actuator, depending on application

Features and Benefits

+ Controls fume hood face velocity to provide containment and safety
+ Reduces laboratory air flow usage, optimizing energy savings
+ Assists in managing risk by communicating fume hood status information to Building Management System (BMS)
+ Visual, audible and remote alarms warn users of unsafe conditions
+ Seamless integration to BMS via BACnet®, LonWorks®, or Modbus™
+ Easy installation and wiring
+ Fast-acting actuator provides containment during sash movements
+ Easy configuration using keypad or configuration software
+ Large display provides detailed fume hood information
+ Surface or flush mount options available

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SPECIFICATIONS

FUME HOOD CONTROLLER
MODEL FHC50

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 m^3/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 m^3/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 m^3/hr)

Control Output
0-10 VDC

Analog Outputs
0-10 VDC or 4-20 mA
Represents Face Velocity, Flow Rate, or % Sash Open

Alarm Contact Outputs
SPST, 2A @ 30 VDC Nominal

Contact Inputs
Sash Position, Night Setback, Emergency, Flow

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

Input Power
24 VAC, 50/60 Hz or 15-40 VDC 5, Watt Maximum
(50 VA for system with TSI actuator)

Operating Temperature
32 to 120° F (0 to 48.9° C)

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

Weight
0.5 lb (225 g)

Optional Accessories

800920	Slimline Monitor
800926	Flush Mounting Bracket

	FHC50-01	FHC50-02	FHC50-03	FHC50-04
TSI's Sidewall Velocity Sensor	+		+	
Sash Position Sensor		+	+	
Flow Control				+
Damper Control	+		O	O
Venturi Valve Control	+	+	+	O
Visual and Audible Alarms	+	+	+	+
Flow Input	O	+	+	+
Contact Inputs	C	C	C	C
Analog Outputs	C	C	C	C
Alarm Contact Outputs	+	+	+	+
RS-485 (Modbus, Johnson N2)	+	+	+	+
BACnet MS/TP or LonWorks Compatible	O	O	O	O

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

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