

HMS-1650

Fume Hood Controller

Data Sheet



HMS-1650

Triatek's HMS-1650 Fume Hood Controller controls and monitors a fume hood's airflow and exhaust that provides scientists with confidence that they are protected from toxic vapors and dusts during experiments.

It utilizes a closed-loop system to regulate air entering and exiting the fume hood and communicates with a sidewall sensor and sash position sensor to monitor the airflow with a higher degree of reliability.

It features a user-friendly touchscreen with color-coded screens to effortlessly communicate the fume hood's status. It instantly updates as conditions change, and immediately alerts users of unsafe conditions with both visual and audible alarms.

The home screen simultaneously displays the current fume hood status, sash height, face velocity, temperature, time, and date.

The HMS-1650 provides more confidence than systems reporting on sash height alone which do not account for obstructions in front of an open sash.

FEATURES INCLUDE

- BACnet[®] and Metasys N2[®] compatible for easy BAS integration
- BTL Listed
- User-friendly touchscreen with intuitive menus
- Color-coded screens
- Visual and audible alarms
- Easy to install and customize
- Password protection with four access levels
- Multiple alarms for sidewall and sash position sensors
- Zone Presence Sensor support
- Non-volatile memory
- Multi-trigger emergency purge option
- Available in plastic surface mount

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HMS-1650 Specifications	
Face Velocity Range	0-200 fpm
Alarm Range	0-200 fpm
Display Range	0-200 fpm
Accuracy	±2 fpm at 60-140 fpm, ±5 fpm outside this range
Sidewall Sensor	Digital ultra-low differential pressure
Sash Position Sensor	Vertical height up to 50"
Control Resolution	±2 fpm
Control Capability	Sash position with sidewall sensing feedback for closed-loop control
Analog Inputs	4 universal (4-20mA, 0-5Vdc, 0-10Vdc) 2 thermistor inputs (NTC Type 2 or 3, 10KΩ at 25°C)
Analog Outputs	4 universal (4-20mA, 0-5Vdc, 0-10Vdc)
Digital Inputs	4 active-high or active-low (0-5Vdc or 0-24Vdc)
Relay Outputs	4 sets of N.O. contacts (1A at 24Vdc/ac)
Communication Protocols	BACnet® MS/TP, Metasys® N2 Open
Operating Temperature	32° to 125° F operating
Operating Humidity	10-95% relative humidity, non-condensing
Exterior Dimensions	Plastic surface mount housing: 3"W x 5"H x ¾"D
Mounting Styles	Surface (no cutout required)
Agency Listings	BTL Listing, SGS Listing, FCC Part 15, ICES-003
Power Requirements	24Vac ±10%, 30VA
Password Protection	Up to 10 user passwords with 4 access levels
Display	18-bit (262K) color TFT, 3.2" diagonal, resistive touchscreen, 2500 cd/m²
Alarm Indication	Industry standard status colors
Alarm Silence	Touchscreen, auto-reset

Product specifications are subject to change without notice. Triatek is a registered trademark of Triatek LLC.



Part Number Guide

HMS1650 - -

Sensor Type

1 = single smart sidewall sensor
2 = dual smart sidewall sensor

Sash Sensor

blank = no sash sensor
S = sash position sensor included



Normal Mode



Warning Mode



Alarm Mode

