VMS-1655M Fume Hood Monitor
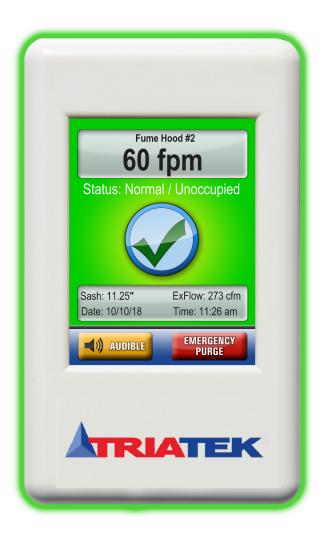
Product Bulletin

Overview

The VMS-1655M Fume Hood Monitor measures and controls the vortex pressure and adjusts to maintain proper fume hood containment. The VMS-1655M adjusts for environmental and usage conditions such as sash movement, fume hood loading, room pressure fluctuations, and cross drafts with active vortex stabilization in real time. Its alarm function notifies the user if the fume hood performance is compromised. Some of the features and benefits include:

- Full-color touchscreen display with programmable display options and adjustable back-light
- 360° Safety Halo™
- Intuitive user interface that simplifies setup and configuration of unit
- Graphical room status display
- Audible and visual alarms
- Multi-level password protection
- 1 Analog Input: 0 to 10 VDC
- 2 analog outputs, actuator control, and flow feedback
- BACnet MS/TP network comms
- Optional display mode to show real-time face velocity on the main screen
- Real-time view feature facilitates diagnostics during setup and commissioning

VMS-1655M technical specifications

Electrical	**Face velocity range**	0 fpm - 600 fpm. Use the Configuration Tool to adjust the maximum face velocity.
	Accuracy of measurement	± 2 fpm, Accuracy is ± 5 fpm when velocity drops below 60 fpm or exceeds 140 fpm.
	2 analog outputs	0 VDC - 10 VDC/4 mA - 20 mA
	1 analog inputs	0 VDC - 10 VDC
	Power supply	Class 2, 24 VAC ± 10%, 30 VA universal 120/240 VAC - 24 VAC, 60/50 Hz, step-down isolation transformer provided
	Recommended cable type	Belden 1325A
Communications	**BACnet MS/TP network**	Two-wire twisted pair, RS-485 signaling
	Recommended cable type	Belden 3107A
Touch screen user interface	**LCD size**	3.2 in. diagonal
	LCD type	Transmissive
	Resolution	240 pixels x 320 pixels portrait
	Viewing area	50.6 mm x 66.8 mm
	Color depth	18-bit or 262K colors
	Back light color	White
	Luminous intensity	Min 2500 cd/m2
Mechanical	**VMS-1655M surface-mount enclosure (height x width x depth)**	5 in. x 3 in. x 1.13 in.
	External remote sensor housing (height x width x depth)	4 in. x 2.5 in. x 2 in.
	Stainless steel cover plate for flow tube (height x width x depth)	4.5 in. x 2.7 in. x 0.2 in.
	VMS-1655M with flow tube cover plate	Approx. 3.5 lb
	VMS-1655M with sidewall sensor	Approx. 4.0 lb
	Flow tube cover plate mounting	Flush
Environmental	**Operating temperature**	32°F to 125°F
	Operating humidity	10% - 95%

Product warranty

This product is covered by a limited warranty. Contact your representative/branch for more details.

Contact information

Contact your local branch office: www.johnsoncontrols.com/locations

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