



AFA4000 Fume hood controller/monitor

Data Sheet



TEL's AFA4000 is a pioneering airflow controlling and monitoring system developed to ensure the safety of users, working with industrial and educational fume hoods and biological safety cabinets. The AFA4000 airflow monitor and controller is available with optional Auto Sash integration. Using the Auto Sash with the AFA4000 controller means you will no longer need a separate Auto Sash keypad.

With a full color, intuitive user interface that has been optimized for user experience, the AFA4000 is easy to navigate and features a simple two-step calibration process with on-screen prompts to guide end users. The unrivalled reliability of the AFA4000 means that once calibrated, you won't need to re-calibrate in the future. The AFA4000 has comms built-in as standard and can be used with either Modbus or BACnet protocol. Featuring an innovative hot wire sensor, the AFA4000 has no inherent drift meaning that the sensor will provide stable readings over many years of operation ensuring reliability and safety.

With full alarm diagnostics and test functionality, a sixty minute timeline of environmental conditions and field software upgradable, the AFA4000 provides today's modern professional with the confidence and peace of mind they need to get on with the job at hand.

FEATURES INCLUDE

- Full color 3.5" LCD Display for continuous velocity reading in fpm
- Auto Sash integration
- Three programmable push buttons
- BACnet and Modbus on board
- Velocity bar graph or fault time line over the last 60 mins
- Visual & audible alarms
- Three digital inputs and three digital outputs
- Emergency Night setback push button
- Diagnostics Menu
- Volumetric measurement
- Energy cost reduction of up to 85%
- Bespoke overlay designs, with a choice of three different colored cases
- Bespoke software options tailored to customer requirements
- Touch sensitive buttons





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AFA4000 Specifications

	AFA4000
Alarm Range	40 - 400fpm remote SM6 or ILS Airflow sensor
Control Range	Face Velocity control 40-400fpm
Control Resolution	2fpm
Control Response	< 2Seconds
Control Output 1	0-10/2-10VDC Control output For Damper, valve or Inverter drive
Control Output 2	0-10/2-10VDC Control output For Bleed or Supply Air Damper/Inverter or 0-10VDC Volumetric Output
Field Set up	Two Point velocity calibration with on screen instructions
Accuracy	Face Velocity +/-5%
Airflow Sensor	Remote SM6 / ILS (In-line Sensor)
Pushbuttons	Three Configurable pushbuttons
Digital Output	Three Configurable outputs
Digital Input	Three Configurable inputs
Com Port	RS485 com port Modbus RTU and BACnet
Display	Digital velocity display fpm Graphical display (Green / Safe, Amber / Caution, Red / Alarm)
Alarm Indication	Red graphic with Audible alarm
Mounting	Semi flush





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Monitor Operating Temperature range	55-86 ° F
Airflow sensor Operating temperature	59-86 ° F
Airflow sensor Working temperature	Ambient +86 ° F
Storage temperature	-22-150 ° F
Agency Listings	CE RoHS
Hazardous Area (Remote Airflow sensor)	Gas group IIC Temp Class T6 With Atex certified I.S. Zener Barriers
Connections	Flying leads with plug in connections
Night Setback	Digital input activation
Sash High	Digital input activation via proximity sensor or micro switch

Part Number Guide: **AFA4000/1** **AFA4000/1/AS**
 AFA4000/2 **AFA4000/2/AS**
 AFA4000/E **AFA4000/E/AS**

BACnet™

Modbus



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