AFA 1000/E
Fume hood controller
Data Sheet

TEL's AFA1000/E is a pioneering airflow monitoring and alarm system developed to ensure the safety of users working industrial and educational fume hoods and biological safety cabinets.

Boasting a simple, yet intuitive, user interface that has been optimized for user experience, the AFA1000/E 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 AFA1000 means that once calibrated, you won't need to re-calibrate in the future.

The AFA1000 has comms built-in as standard and can be used with either Modbus or bacnet protocol.

Featuring an innovative hot wire sensor, the AFA100 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 AFA100 provides today's modern professional with the confidence and peace of mind they need to get on with the job at hand.

FEATURES INCLUDE

- LCD Display for continuous velocity reading in m/sec or fpm
- Programable push buttons
- Bacnet and Modus on board
- Velocity bar graph or fault time line over the last 60 mins
- Audible alarm with Red, Amber & green LEDS
- 3 relay inputs and 3 relay outputs
- Emergency Night setback push button
- Diagnostics Menu
- Volumetric measurement
- Energy cost reduction of up to 85%

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AFA1000/E Specifications

	AFA1000/E MK2	AFA1000/E MK3
Alarm Range	0.15-5.00 m/s (30-999fpm) remote SM6 or ILS Airflow sensor	0.15-5.00 m/s (30-999fpm) remote SM6 or ILS Airflow sensor
Control Range	Face Velocity control 0.15-1.5 m/sec (30-300fpm)	Face Velocity control 0.15-1.5 m/sec (30-300fpm)
Control Resolution	0.01 m/sec (2fpm)	0.01 m/sec (2fpm)
Control Response	< 2Seconds	< 2Seconds
Control Output 1	0-10/2-10VDC Control output For Damper, valve or Inverter drive	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	0-10/2-10VDC Control output For Bleed or Supply Air Damper/Inverter or 0-10VDC Volumetric Output
Field Set up	2 Point velocity calibration with on screen instructions	2 Point velocity calibration with on screen instructions
Accuracy	Face Velocity +/-5%	Face Velocity +/-5%
Airflow Sensor	Remote SM6 / ILS	Remote SM6 / ILS
Pushbuttons	3 Configurable pushbuttons	3 Configurable pushbuttons
Relay Output	3 Configurable outputs	3 Configurable outputs
Relay Input	3 Configurable inputs	3 Configurable inputs
Com Port	RS485 com port Modbus RTU and BACnet	RS485 com port Modbus RTU and BACnet
Display	Digital velocity display fpm / m/sec 3 x LED's (Safe/Caution/Alarm)	Digital velocity display fpm / m/sec 3 x LED's (Safe/Caution/Alarm)
Alarm Indication	Red LED with Audible alarm	Red LED with Audible alarm
Mounting	Fully flush	Semi flush
Monitor Operating Temperature range	13-30˚C 55-86˚F	13-30˚C 55-86˚F
Airflow sensor Operating temperature	15-30˚C 59-86˚F	15-30˚C 59-86˚F
Airflow sensor Working temperature	Ambient +30˚C/86˚F	Ambient +30˚C/86˚F
Storage temperature	-40-65˚C / -40-150˚F	-40-65˚C / -40-150˚F
Agency Listings	CE RoHS	CE RoHS
Hazardous Area (Remote Airflow sensor)	Gas group IIC Temp Class T6 With Atex certified I.S Zener Barriers	Gas group IIC Temp Class T6 With Atex certified I.S Zener Barriers
Connections	Flying leads with plug in connections	(2m-5m) Max 24VDC

Part Number Guide : AFA1000/E

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