APEX PREMIER™
HIGH PERFORMANCE FUME HOOD MONITOR

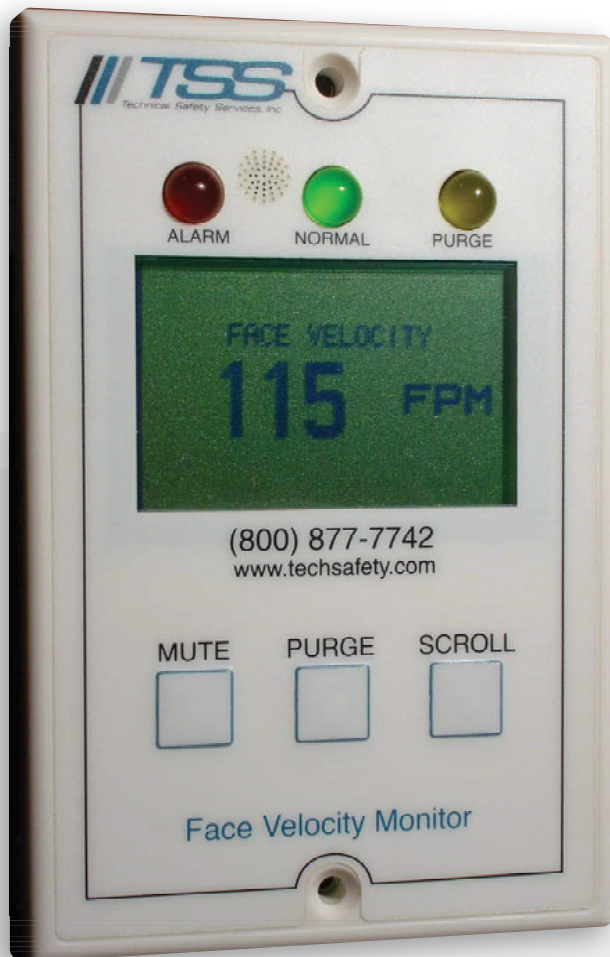### THE MOST VERSATILE FUME HOOD MONITOR AVAILABLE

HIGH PERFORMANCE FUME HOOD MONITOR

▶ **Backlit Display**

▶ **Internal Reference**

▶ **Visual Status Indicators + Audible Alarm**

▶ **Three Options for Display of Face Velocity. Alpha, Numeric or Graphic**

▶ **Intuitive Graphic LCD Touch Screen Menu**

▶ **Setup for Calibration + Configuration**

Microprocessor-based performance

Microbridge mass airflow sensor technology and advanced automated factory calibration system for unparalleled accuracy and performance

Real-time graphical display of face velocity

Internal menu driven set-up and calibration

Programmable mute button

Programmable output relays for Purge or Alarm

Programmable digital inputs for alarm or setback

Entire system settings viewable via one button

Password protected calibration configuration

Self contained face velocity sensor

APEX PREMIER™

TSS introduces the APEX Premier™ Fume Hood Monitor to the Critical Environments Industry. The APEX PremierTM was developed to help ensure the safest operating environment for lab personnel. It is the most versatile fume hood monitor available, and is suited for use on all types of fume hoods including Constant Volume, Variable Volume and High Performance Low Flow Hoods.

The Apex Premier™ utilizes state of the art technology to provide the highest level of performance achievable in a fume hood monitor. The result is unparalleled reliability and simplistic operation. The heart of the Apex Premier™ is the smart sensor module which is responsible for accurate, repeatable and instantaneous measurement of fume hood face velocity. Face velocity measurement is made by an ultra-sensitive micro-bridge mass airflow sensor with a response time of less than 3 milliseconds. The analog signal provided by the micro-bridge is digitized by a high-resolution A/D converter and then further enhanced and factory calibrated over the operating velocity range by an automated test & calibration system. The resulting velocity measurement of the calibrated smart sensor module is an extremely accurate and repeatable signal suitable for use in all fume hood applications.

The brain of the Apex Premier™ is the APEX Operating System (A-OS) contained within its microprocessor core. The A-OS controls the configuration tool, on-board operations, and the user interface. Upon entry of a unique password code, the Apex Premier™ enters into set-up mode, which activates the matrix touch screen allowing access to the user-friendly start-up and calibration routines. The matrix touch screen can be configured to provide visual feedback to the lab occupants using descriptive text messages, real-time numerical face velocity data or real-time graphical trend history data. During the normal operating mode, the A-OS continuously processes sensor data and user settings, and determines the appropriate output responses to indicate operating and alarm conditions.

Integration to a central building automation system is accomplished by on-board I/O points. These points can provide remote indication of alarm conditions, or initiate alarm setback during unoccupied modes of operation.

APEX PREMIER™

APEX PREMIER™ VS. THE COMPETITION

FEATURES	APEX PREMIER (TEK-AIR)	AIR GUARD (ALNOR)	AIRFLOW MONITOR (TEL)	EVERWATCH (TSI)
Full graphic matrix display	✓		✓	
Both internal and external room reference probe options	✓			
Operates below 50 FPM	✓		✓	✓
Operates above 250 FPM	✓		✓	✓
Descriptive and easy to follow on-screen text messages for calibration and configuration	✓		✓	
Touch screen for calibration & configuration	✓		✓	
Small hood probe hole required	✓	✓		
Time based graphing option available on display	✓			
Password protected configuration and calibration routines	✓			✓
Selectable display resolution (1 or 5 FPM)	✓		✓	
Selectable display filtering	✓			✓
Independent calibration offset feature	✓			

Note: specifications subject to change without notice.