

# EVERWATCH™

## Fume Hood Monitor

### Model 8612

TSI's Model 8612 EVERWATCH™ Fume Hood Monitor ensures the safety of workers by continuously monitoring fume hood face velocity. TSI utilizes a sidewall sensor for accurate and reliable velocity measurements. The EVERWATCH Monitor provides constant protection with audible and visual alarms that warn the hood operator when the velocity drops below a preset level.

#### Ensures Safety

- Verifies hood performance by continuously monitoring fume hood face velocity
- Meets your unique requirements with a field adjustable alarm set point
- Warns hood operator of unsafe low velocities with audible and visual alarms
- Signals external alarm devices with remote relay
- TSI controls have enhanced lab safety since 1982

#### Accurate Measurement

- Detects the effect of competing air flows and operator disturbances
- Temperature compensated sensor to ensure accuracy over a wide range of operating temperatures
- Calibrated to your fume hood's unique flow characteristics

#### Meet Industry Standards

- Confirms fume hood performance to fulfill OSHA recommendations
- Indicates air flow on fume hoods to meet NFPA requirements
- Complies with ANSI Z9.5 requirement for a flow measurement device



Model 8612

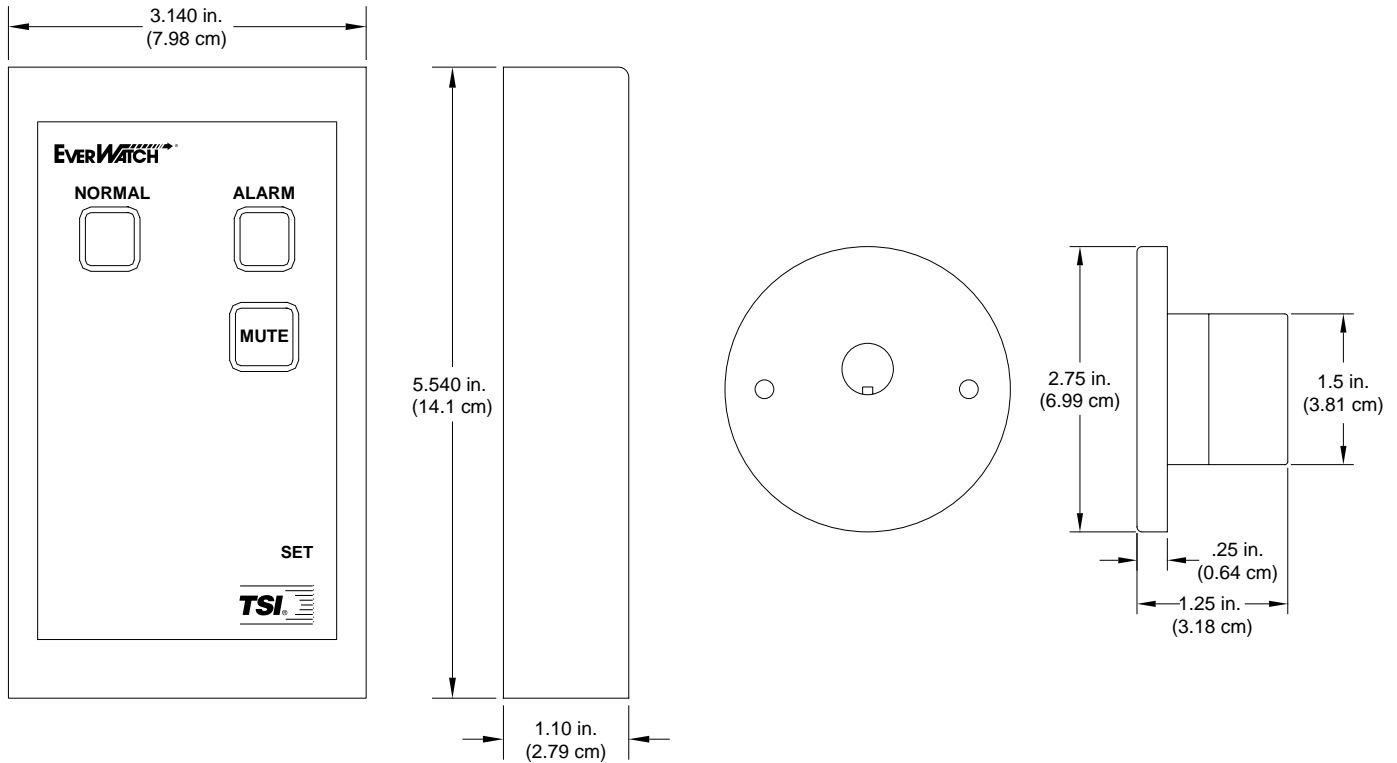
# Model 8612 EVERWATCH Fume Hood Monitor

## Specifications

Face Velocity Range:	0 to 500 ft/min (0 to 2.54 m/s)
Low Alarm Range:	0 to 400 ft/min (0 to 2.03 m/s)
Low Alarm Relay:	SPST NO max current 5A max voltage 150 VDC contacts close in alarm condition
Alarm Lights:	0.4" × 0.4" (1.02 cm × 1.02 cm)
Audible Alarm:	90 dbA
Input Power:	24 VAC/VDC 6 watt max
Operating Temperature:	32°F to 120°F (0°C to 50°C)
Temperature Compensated	
Range:	55°F to 95°F (12°C to 35°C)
Monitor Weight:	1 lb. (.45 kg)

## Velocity Sensor

Dimensions (D × H):	2.75 in. × 1.25 in. (6.99 × 3.18 cm)
Weight:	0.2 lb (.09 kg)
Power Dissipation:	0.09 watts at 0 ft/min, 0.14 watts at 100 ft/min (.51 m/s)
Cable Specifications:	4-conductor, 22 AWG, 4-pin polarized at both ends with a standard length of 6 ft (1.83 m)



## Optional Components

### Model 8691 Fume Hood Sensor Venting Kit

The Model 8691 Fume Hood Sensor Venting Kit provides an extension from the sensor in the side of the hood to an opening in the front of the hood. This ensures that a good room reference is being drawn through the sensor. The Model 8691 should be used in situations when air cannot easily be drawn through the sensor, such as a fume hood with a vanity or ceiling tiles at top of hood.

\* Transformer and wiring not included.

All specifications subject to change without notice.



### TSI Incorporated Environmental Measurements and Controls Division

500 Cardigan Road  
Shoreview, MN 55126 USA  
Telephone: 800 777 8356  
651 490 2711  
Fax: 651 490 2874  
E-mail: emco@tsi.com  
Website: www.tsi.com

**Europe:**  
**TSI AB:**  
Telephone: 46 18 527000