

# Model SRIMV

## Velocity Monitor

Setra's SRIMV is a multi-function non-BACnet device designed to monitor velocity while also giving the user the option to measure and display flow, differential pressure, temperature and humidity. The SRIMV offers three velocity ranges as well as three pressure ranges, giving the user the option to choose the appropriate range for their application. The SRIMV has a 3-color backlit display for easy menu navigation and audible/visual alarm capability for velocity, flow, pressure, temperature, humidity and door input. The velocity and flow measurements are based on differential pressure and require the use of a single point Pitot tube or averaging probe.

### Simplify Your Velocity Measurement

The SRIMV offers velocity ranges of 2000 ft/min, 4000 ft/min and 8000 ft/min as well as three meter ranges of 0-10, 0-20 and 0-40 m/s. The SRIMV automatically calculates the velocity and volumetric flow rates based on differential pressure, eliminating the need for a manual square root calculation. Air density correction can be set as a STD condition or use as an external temperature sensor input.

### Alarm Everything You Monitor

The SRIMV provides audible and visual alarming for velocity, flow, pressure, temperature and humidity to give you peace of mind in your critical environment. High and low alarm set-points for each parameter are easily configurable through a four-button membrane keypad. A digital input is also provided to show door status.

### Three Color Easy-to-See Status Screen

The SRIMV utilizes a three-color backlit screen which allows the end user to easily view the status of the monitored space with green (normal), yellow (warning) and red (alarm) status screens. Alarms can be configured to be delayed to ensure that each SRIMV is configured to the specific needs of the end user.

### Save Time and Money on Calibration

With requirements in place to calibrate pressure sensors anywhere from 1-3 times annually, the Setra SRIMV offers a solution to help you save on calibration time. The SRIMV allows the end user to remove the sensor without detaching any wiring or plumbing, attach to the Setra calibration fixture and complete the calibration in minutes.



- Maximize Patient Safety
- Alarm on 5 Parameters
- Save on Calibration & Installation

### Model SRIMV Features:

- 3-Color LCD Display for Easy Setup and Room Display
- On-board Sensor - Industry Best Accuracy
- Analog Inputs for External Temp & Humidity Sensors
- Analog Outputs 4-20 mA, 0-5 and 0-10 VDC Field Selectable
- Monitor & Alarm Velocity, Flow, Pressure, Temp & RH
- Configurable Audible & Visual Alarms
- Adjustable Filtering to Reduce Noisy Pressure and Velocity Inputs
- Flush Mount and Surface Mount Available
- Removable Faceplate for No Hassle Calibration

### Applications:

- Air Velocity
- Volumetric Airflow
- Differential Pressure
- Isolation Rooms

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### ORDERING INFORMATION

S R I M V - [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] [ ]

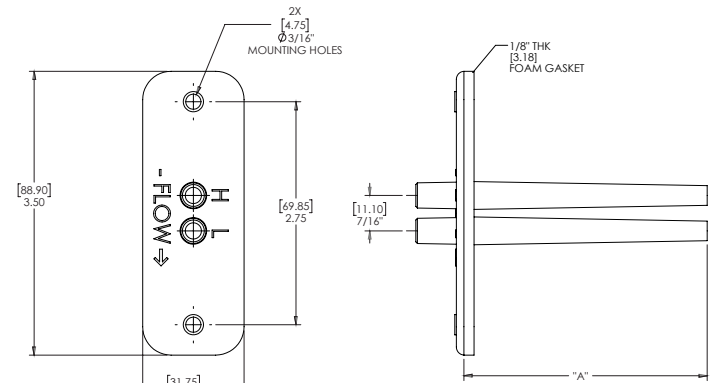
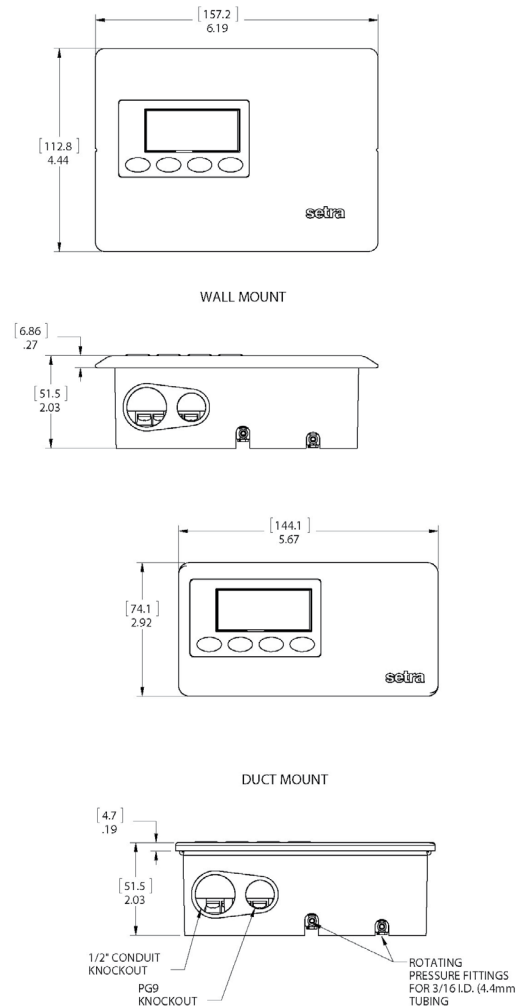
Model	Ranges				Output <sup>1</sup>		Mounting/Logo	
	ft/min	m/s		11	4 to 20mA	WL	Wall Mount w/ Logo	
SRIMV = Model SRIMV	20CF	2000	010M	0-10	2B	0 to 5 VDC	DL	Duct Mount w/ Logo
	40CF	4000	020M	0-20	2C	0 to 10 VDC	WN	Wall Mount, No Logo
	80CF	8000	040M	0-40			DN	Duct Mount, No Logo
							WS	Wall Mount, Stainless Steel Bezel

Example: Part No. SRIMV010M11WL = Model SRIMV, 0 to 10 m/s Velocity Range, 4 to 20 mA Output, Wall Mount with Logo.

### ACCESSORIES

Part Number	Probe Length "A"	Description
242915-01	3- 5/32"	Averaging flow sensor
242915-02	5- 13/32"	Averaging flow sensor
242915-03	7- 21/32"	Averaging flow sensor
242915-04	9- 29/32"	Averaging flow sensor
242915-05	12- 1/2"	Averaging flow sensor
242915-06	14- 3/4"	Averaging flow sensor

### DIMENSIONS



### GENERAL SPECIFICATIONS

Range	Accuracy	Environmental Data	
0-2000 ft/min	±2.5% Reading ± 10 f/t from 0-500 ft/min, ±2.5% Reading ±20 ft/min from 500 to 2000 ft/min	Operating Temp. °F (°C)	22 to +140 (-6 to +60)
0-4000 ft/min	±2.5% Reading ± 10 f/t from 0-500 ft/min, ±2.5% Reading ±20 ft/min from 500 to 4000 ft/min	<b>Electrical Data</b>	
0-8000 ft/min	±2.5% Reading ± 10 f/t from 0-500 ft/min, ±2.5% Reading ±20 ft/min from 500 to 8000 ft/min	Circuit	3-Wire (Exc, Out, Com)
0-10 m/s	±2.5% Reading ±.05 m/s from 0-3m/s, ±2.5% Reading ±0.1 m/s from 3 to 10 m/s	Output	0 to 5 VDC, 0 to 10 VDC, 4 to 20 mA
0-20 m/s	±2.5% Reading ±.05 m/s from 0-3m/s, ±2.5% Reading ±0.1 m/s from 3 to 20 m/s	Power	18 to 30 VDC or 24 VAC ±10%
0-40 m/s	±2.5% Reading ±.05 m/s from 0-3m/s, ±2.5% Reading ±0.1 m/s from 3 to 40 m/s	Power Consumption	4 W. MAX (24 VDC) 8 W. MAX (24 VAC)
Long Term Stability	0.5% FS/yr	<b>Physical Description</b>	
<b>Thermal Effects</b>		Electrical Connection	Screw Terminal
Compensated Range °F (°C)	40 to 120 (4.5 to 50)	Dimensions	See Diagram to Left
Zero/Span Shift %FS	±0.02% FS/C Typ	Weight	10.7 oz.
Overpressure	Up to 10 PSI	Display	Custom 2-Line Character LCD
<b>Pressure Media</b>		Pressure Fittings	Barbed Fittings for 1/4" Tubing
Air or non-conductive, non-explosive gases.		Case	Fire Retardant Plastic UL94V-0
<b>Certifications</b>			
CE	EN61326-1 & EN61326-2-3 BASIC Immunity & Class B Emission		
RoHS			