Velocity Monitor

Setra's Velocity Monitor 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 Velocity Monitor offers three velocity ranges as well as three pressure ranges, giving the user the option to choose the appropriate range for their application. The Velocity Monitor 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.



The Velocity Monitor 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 Velocity Monitor 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 a external temperature sensor input.

Alarm Everything You Monitor

The Velocity Monitor 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 setpoints for each parameter are easily configurable through a fourbutton membrane keypad. A digital input is also provided to show door status.

Three Color Easy-to-See Status Screen

The Velocity Monitor 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 Velocity Monitor 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 Velocity Monitor offers a solution to help you save on calibration time. The Velocity Monitor 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

Velocity Monitor 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
- CE & RoHS Compliant

Parameters:

- Air Velocity
- Volumetric Airflow
- Differential Pressure
- Air Changes Per Hour

Velocity Monitor



ORDERING INFORMATION

$R \mid I \mid M \mid V$ Ranges Output1 Mounting/Logo 4 to 20mA WL Wall Mount w/ Logo SRIMV = Velocity Monitor ft/min m/s 20CF 2000 010M 0-10 0 to 5 VDC Duct Mount w/ Logo 40CF 4000 020M 20 0 to 10 VDC WN Wall Mount, No Logo 0-20 80CF 8000 040M 0-40 Duct Mount, No Logo SN Wall Mount, Stainless Steel Bezel, No Logo SL Wall Mount, Stainless Steel Bezel, w/ Logo

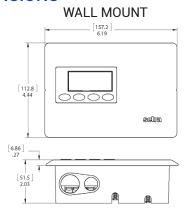
ACCESSORIES

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	

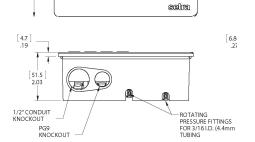
Example: Part No. SRIMV010M11WL = Model SRIMV, 0 to 10 m/s Velocity Range, 4 to 20 mA Output, Wall Mount with Logo.

DIMENSIONS

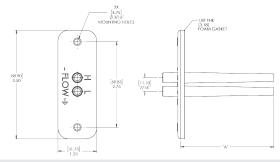
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AVERAGING FLOW SENSOR



GENERAL SPECIFICATIONS

Range	Accuracy		Environmental Data	
0-2000 ft/min	$\pm 2.5\%$ Reading \pm 10 f/t from 0-500 ft/min, $\pm 2.5\%$ Reading ± 20 ft/min from 500 to 2000 ft/min		Operating Temp. °F (°C)	22 to +140 (-6 to +60)
0-4000 ft/min		ading ± 10 f/t from 0-500 ft/min, ±2.5% 20 ft/min from 500 to 4000 ft/min	Electrical Data	
0-8000 ft/min		ading ± 10 f/t from 0-500 ft/min, ±2.5% 20 ft/min from 500 to 8000 ft/min	Circuit	3-Wire (Exc, Out, Com)
0-10 m/s	1	nding ±.05 m/s from 0-3m/s, ±2.5% 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		nding ±.05 m/s from 0-3m/s, ±2.5% 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		Physical Description	
Thermal Effects			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
Pressure Media		Pressure Fittings	Barbed Fittings for 1/4" Tubin	
Clean air or other non-conducting gases.		Case	Fire Retardant Plastic UL94V-	
Certificat	ions			
CE		EN61326-1 & EN61326-2-3 BASIC Immunity & Class B Emission		

RoHS