SIEMENS

QVM62.1 Air Velocity Sensor

Description

The QVM62.1 Air Velocity Sensor/Transmitter is ideal for ventilation control applications requiring a high degree of accuracy and reliability. The sensor features an innovative hot film anemometer element which provides high accuracy throughout the measuring range. The hot film anemometer element is less sensitive to dust and dirt than other common anemometer designs. This increases reliability and decreases maintenance costs.

Features

- Mounting flange allows the installer to vary the probe insertion length into the duct space for best control.
- Mounting flange dampening gasket minimizes vibration.



- Graduated probe ensures maximum flow accuracy.
- Flow directional arrow provides for the most accurate reading.
- Connection cable provides mounting flexibility.
- Three jumper selectable flow measuring ranges accommodate any application or environment.
- Output is field-configurable for 0 to 10V or 4 to 20mA.

Ordering Information

Description	Part Number
Air Velocity Sensor, 0 to 3000 FPM	QVM62.1

Siemens Industry, Inc. Page 1 of 2

Specifications

Power supply	Operating voltage	24 Vac +/- 20%
	Frequency	50/60 Hz
	Power consumption	≤ 5 VA (maximum 200 mA)
	Output impedance	<20 ohm
Measuring data	Measuring ranges, adjustable	0 to 16 ft/s (0 to 5 m/s) 0 to 33 ft/s (0 to 10 m/s) (factory setting) 0 to 49 ft/s (0 to 15 m/s)
	Measuring accuracy at 68°F (20°C), 45% rh, 1013 hPa	<u>+</u> 0.7 ft/s (0.2 m/s + 3% of measured value)
	Permissible air velocity	66 ft/s (20 m/s)
	Direction dependence	< 0.3% of measured value at< + 10°
	Time constant t ₉₀ at 10 m/s	4 seconds
Signal output	Voltage Current	0 to 10 Vdc 4 to 20 mA
Line length	Permissible length to controller at: 20 AWG copper cable 18 AWG copper cable 16 AWG copper cable Line length to the sensor head	164 ft (50 m) 492 ft (150 m) 984 ft (300 m) 3 ft (1 m) (prewired)
Connections	Mechanical Electric	Screw connection Screw terminal, maximum 2 x 18 AWG
Degree of protection	Degree of protection provided by enclosures as per EN 60 529 Transducer Sensor head Degree of protection as per EN 60 730	IP 42 IP 20 III
Environmental conditions	Climatic conditions Temperature Humidity (non-condensing) Mechanical conditions Chemical conditions Storage (transducer and immersion stem) Temperature Humidity (non-condensing) Mechanical conditions Transportation Temperature Humidity (non-condensing) Mechanical conditions	-13°F to 122°F (-25°C to 50°C) <95% rh Class 3M2 Class 3C2 23°F to 113°F (-5°C to 45°C) <95% rh Class 1M2 23°F to 113°F (-5°C to 45°C) <95% rh Class 2M2
Materials and colors	Housing bottom Housing cover Sensor pipes Sensor head, extension, enc Connecting flange Sensor	Polycarbonate, RAL 7001 (silver-gray) Polycarbonate, RAL 7035 (light gray) Polycarbonate, RAL 7001 (silver-gray) Polycarbonate, RAL 7035 (light gray) Polycarbonate, RAL 7001 (silver gray) Silicone-free

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