



DESCRIPTION

The **Model AVS-200** is an electronic air velocity transmitter for use in HVAC systems, laboratories, and industrial applications. It features three DIP switch-selectable velocity ranges and two analog outputs. The **Model AVS-200** also has a selectable time constant (the time it takes to register 63.2% of a velocity change) of three or 10 seconds. The sensing probe has an adjustable insertion length of up to 8" (20.3 cm) and a 4.5' (1.37m) cable. The **Model AVS-200** is powered by 24 VAC.

FEATURES

- **Three DIP switch-selectable velocity ranges**
- **Two analog outputs**
- **Selectable time constant**
- **24 VAC power**
- **Dust- and splash-proof (IP44) enclosure**



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SPECIFICATIONS	
Power supply	24 VAC ±10%, 50/60 Hz
Power consumption	5 VA
Velocity ranges (selectable with DIP switches)	0-1000 fpm (0-5.08 m/s) 0-2000 fpm (0-10.16 m/s) 0-3000 fpm (0-15.24 m/s)
Outputs	0-10 VDC (minimum 1000Ω) 0-20 mA (maximum 600Ω) 4-20 mA (maximum 600Ω)
Temperature effect	Maximum 0.1%/°C (0.18%/°F)
Time constant (selectable)	τ = 63.2% for 3 or 10 seconds
Repeatability Accuracy	0.5% of measuring range ±5% of measured value + 0.5% of measuring range
Ambient temp Sensor Electronics Enclosure	-4° to 140°F (-20° to 60°C) 32° to 122°F (0° to 50°C) Dust- and splash-proof (IP44)
Material of enclosure Cable length Probe insertion depth	Polycarbonate plastic 4.5' (1.37m) 1" to 8" (25 to 20.3 cm) adjustable
Weight Warranty	1.8 lb (0.8 kg) 1 year

WIRING	INSTALLATION
<p>AVS-200 Internal Connection</p> <p>1 2 3 4 5</p> <p>- +</p> <p>24 VAC</p> <p>0-20 mA or 4-20 mA</p> <p>0-10 VDC</p> <p>Common</p> <p>Note: Any device sharing a transformer with the AVS-200 must have a common power "-" and signal "+" terminal, and polarity must be observed. Otherwise, a separate transformer must be used with the AVS-200.</p>	<p>The sensing probe must be installed through a 5/8" (16 mm) hole in the duct with the arrow on the mounting flange pointing in the direction of the airflow. The tab on the mounting flange should be aligned with the line on the probe to ensure proper airflow measurement. The insertion length is adjustable. Loosen the set screw, and move the probe to the selected position. The scale on the probe shows the insertion length.</p> <p>Always install the sensing probe downstream of filters and coils. Avoid placement directly in the outside air stream.</p> <p>For best accuracy, locate the sensing probe a minimum of 10 duct diameters (or widths) upstream of any obstruction and a minimum of 10 duct diameters downstream.</p>

ORDERING INFORMATION	
MODEL AVS-200	DESCRIPTION Air velocity transmitter