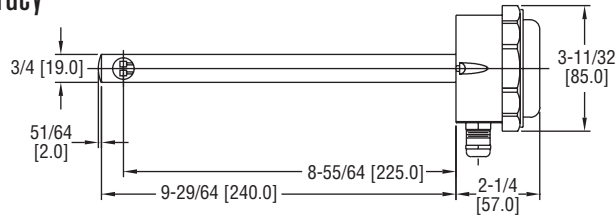


# AIR VELOCITY TRANSMITTER

Ideal for Building Automation Systems,  $\pm 5\%$  or  $\pm 8\%$  Full Scale Accuracy



Air Flow Switches

The **SERIES AVU** Air Velocity Transmitter is ideal for a wide range of HVAC measurement and control applications, particularly in complete building control and energy management systems.

The Series AVU Transmitter operates by measuring the heat loss from one of the two sensing elements in the air stream, then calculating the air velocity. Units are virtually immune to drift due to the design of the sensing element, which makes the transmitter accurate over the whole air velocity range.

## FEATURES/BENEFITS

- 4 to 20 mA or 0 to 10 V output versions
- NEMA 6 (IP67) enclosure rating
- AC or DC powered (loop version DC only)
- 5% or 8% accuracy

## APPLICATIONS

- Zone control in HVAC systems
- Supply and exhaust fan tracking
- Clean room systems
- Air pollution studies and manufacturing

## SPECIFICATIONS

**Service:** Clean air and compatible, non-combustible gases.

**Accuracy:** AVU:  $\pm 5\%$  of FS; AVUB:  $\pm 8\%$  of FS.

**Response Time (90%):** 5 sec (typical).

**Temperature Limits:** 32 to 122°F (0 to 50°C).

**Humidity Limit:** 0-90% RH, non-condensing.

**Power Requirements:** -A models 24 VDC +10% -15%; -V models 24 VDC or 24 VAC +10% - 15%.

**Output Signal:** -A models 4 to 20 mA current loop; -V models 0-10 VDC.

**Loop Resistance:** (-A models) 700  $\Omega$ .

**Current Consumption:** 60 mA + output current.

**Max. Start Up Current:** 85 mA; 10 V.

**Output Current Limit:** (-V models) >10 mA.

**Electrical Connections:** Screw terminal. Cable gland for 4-8 mm wire (16 gauge wire).

**Enclosure Rating:** NEMA 6 (IP67) except sensing point.

**Probe Dimensions:** 9.45 x .75" (240 x 19 mm).

**Mounting Orientation:** Unit not position sensitive. Probe must be aligned with airflow.

**Weight:** 8.8 oz (250 g).

**Agency Approvals:** CE.

## MODEL CHART

Model	Range fpm (m/s)	Output	Accuracy
AVU-1-A	0 to 785 (0 to 4)	4 to 20 mA	5%
AVU-2-A	0 to 1575 (0 to 8)	4 to 20 mA	5%
AVU-3-A	0 to 3150 (0 to 16)	4 to 20 mA	5%
AVU-1-V	0 to 785 (0 to 4)	0 to 10 VDC	5%
AVU-2-V	0 to 1575 (0 to 8)	0 to 10 VDC	5%
AVU-3-V	0 to 3150 (0 to 16)	0 to 10 VDC	5%
AVUB-1-V	0 to 785 (0 to 4)	0 to 10 VDC	8%
AVUB-2-V	0 to 1575 (0 to 8)	0 to 10 VDC	8%
AVUB-3-V	0 to 3150 (0 to 16)	0 to 10 VDC	8%

## OPTION

Use order code:	Description
NISTCAL-AV1	NIST traceable velocity calibration certificate