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 offers 5% accuracy at a surprisingly low cost, with six units covering ranges from 0-785 fpm to 0-3150 fpm, with either 4-20 mA or 0-10 VDC output.

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**

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

**APPLICATIONS**

- Supply and exhaust fan tracking
- Clean room systems
- Air pollution studies and manufacturing
- Process control systems

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**Series 641B Air Velocity Transmitter**

8 Field Selectable Ranges in FPM or MPS

The Series 641B Air Velocity Transmitter uses a heated mass flow sensor technology. It has 4 user-selectable ranges from 250 FPM to 2000 FPM with corresponding metric ranges of 1.25 MPS to 10 MPS. The 641B provides an isolated 4-20 mA output proportional to the velocity.

The Series 641B’s steel sensor allows the unit to be used in dirty air environments. This rugged sensor is ideally suited for quick field cleaning from a simple cloth to a pulse of air from an air source. Proper sensor performance can be maintained in these polluted environments by easily removing dust and debris from the sensor which is problematic for pitot tubes and other flow sensing transmitters.

**SPECIFICATIONS**

- Service: Air and compatible, non-combustible gases.
- Accuracy: 5% of full scale.
- 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 4-20 mA current loop; V models 0-10 VDC.
- Loop Resistance: (-A models) 700 ohms.
- 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.
- Mounting Dimensions: 9.45 x 0.75˝ (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.

**ACCESSORIES**

- A-156, Flange Mounting Plate with 1/2˝ female NPT
- A-155, Mounting Gland with 1/2˝ male NPT fitting

* A brief current transient exceeding 300 mA may be seen on startup