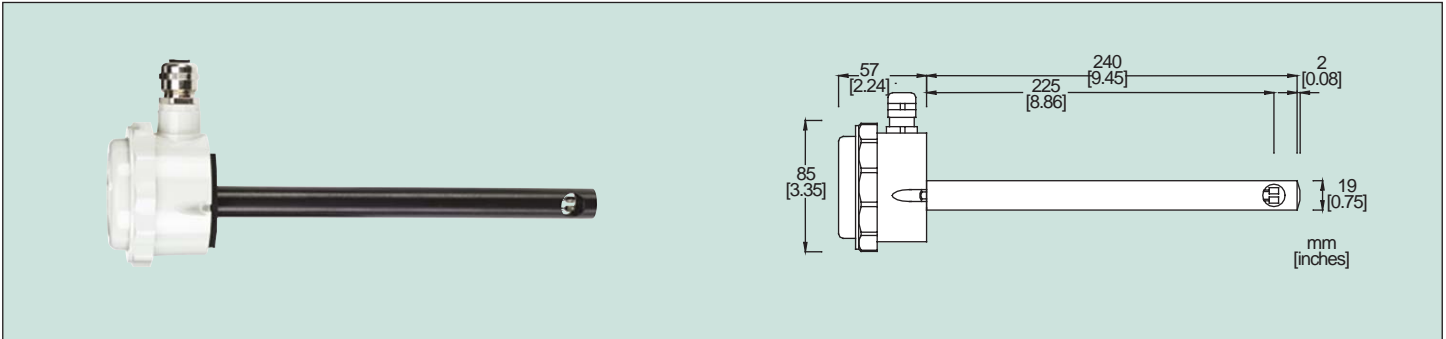




Series
AVU

Air Velocity Transmitter

IP67 Connection Head, ±5% F.S. Accuracy



Air Velocity

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.

Designed for use in reasonably clean and dry air streams, applications include: supply and exhaust fan tracking, clean room systems, air pollution studies and manufacturing or process control systems.

The Series AVU offers 5% accuracy at a surprisingly low cost, with six units covering ranges from 0-4m/s to 0-16m/s, with either 4-20mA or 0-10V DC output. The AVU Series is easily installed to ducting using the supplied gasket by securing the IP67 ABS plastic enclosure directly to the duct and inserting the probe through a 20 / 22 mm hole. Power requirement 21 to 36VDC or a 21 to 26VAC. Electrical connections are made to terminal strip via the stainless steel supplied cable gland.

The AVU Series of transmitters operate by measuring the heat loss from one of the two sensing elements in the air stream and hence calculating the air velocity. The design of the sensing elements makes the transmitter accurate over the whole air velocity range and gives excellent immunity to drift. The sensing elements are metal clad ensuring a long service life and enabling the sensor to be cleaned.

SPECIFICATIONS

GENERAL

Media: Air.

Ranges: 0 to 4m/s (AVU-1), 0 to 8m/s (AVU-2), 0 to 16m/s (AVU-3).

ELECTRICAL

Power supply:

- A models 24V DC +10% -15%
- V models 24V DC or AC +10% -15%.

Output signal:

- A models 4-20mA current loop.
- V models 0-10V DC.

Max operating current: 60mA + output current.

Max start up current: 85mA

10V output current limit: (-V models) >10mA.

Max loop resistance: (-A models) 700 Ohms.

Setting time on power up: 15sec (typical).

Response time (90%): 5sec (typical).

PERFORMANCE

Zero output: -A models 4mA, -V models 0V DC.

Full span: -A models 20mA, -V models 10V DC.

ACCURACY

+/- 5% of full scale.

ENVIRONMENTAL

Operating conditions: 0-50°C, 0-90% RH (non-condensing).

MECHANICAL

Case materials: ABS, Aluminium.

Probe dimensions: 240 x 19mm dia. (special lengths available, consult factory).

Weight: 250g.

Fixing hole spacing: 65mm.

PROTECTION

Environmental protection: IP67 (except sensing point).

STOCKED MODELS

Model	Range	Output	Price
AVU-1-A	0- 4 metres/second	4-20 mA	£95.00
AVU-2-A	0- 8 metres/second	4-20 mA	95.00
AVU-3-A	0-16 metres/second	4-20 mA	95.00
AVU-1-V	0- 4 metres/second	0-10V DC	95.00
AVU-2-V	0- 8 metres/second	0-10V DC	95.00
AVU-3-V	0-16 metres/second	0-10V DC	95.00