SERIES AVUL | AIR VELOCITY TRANSMITTER

BENEFITS/FEATURES

- **Minimal preventative maintenance as sensing element is covered with an engineered protective coating**
- **Easy field setup via the on board dip switches for range and units**

APPLICATIONS

- Building ducts
- VAV systems
- HVAC systems

DESCRIPTION

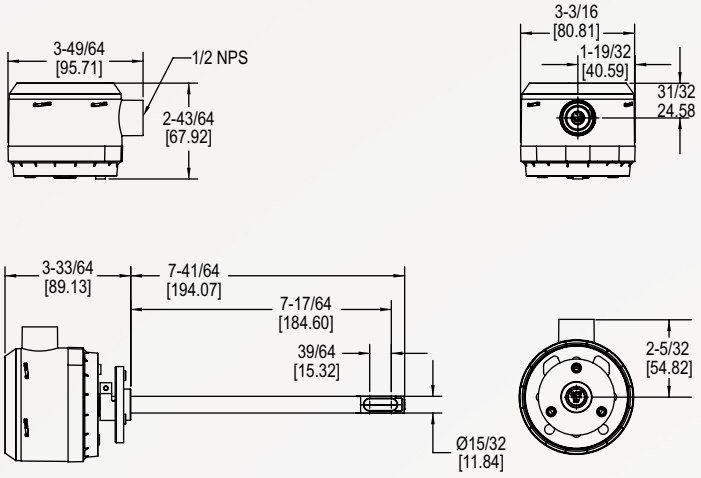
The **Series AVUL Air Velocity Transmitters** quickly and accurately measures air velocity or volumetric flow in imperial or metric units. Simultaneous current and voltage outputs on all models provide universal inputs to monitoring equipment while the output range, units, and 0 to 5/10 VDC, 4-20 mA output can be configured via local DIP switches. The optional integral display, or the portable remote display tool, provide a convenient way to locally monitor process values and configure the unit.

Models are available in 3% and 5% accuracy models to suit a variety of needs, and the optional BACnet MS/TP or Modbus® RTU/ASCII communication protocol allows units to be daisy-chained while providing access to all of the velocity and flow data, as well as additional information such as air temperature.

SPECIFICATIONS

Service	Clean air and non-combustible, compatible gases.
Range	1000, 2000, 3000, 4000 FPM (5, 10, 15, 20 m/s); Field selectable.
Accuracy	±(5% of reading +0.2 m/s) or ±(3% of reading +0.2 m/s) @ standard conditions, depending on model.
Temperature Limits	32 to 122°F (0 to 50°C).
Power Requirements	24 VDC ±20% or 24 VAC ±20%.
Humidity Limits	5 to 95% RH, non-condensing.
Output Signal	4-20 mA, 0-5 VC, 0-10 VDC.
Response Time (90%)	10 s (typ).
Zero and Span Adjustments	Digital push buttons.
Current Consumption	60 mA max.
Display (Optional)	5 digit LCD.
Communication (Optional)	Connections: BACnet MS/TP or Modbus® RTU/ASCII: 3-wire removable European style terminal block for 16 to 26 AWG; Supported baud rates: 9600, 19200, 38400, 57600, 76800, 115200.
Device Load	1/8 unit load.
Electrical Entry	1/2″ NPS thread; Accessory (A-151): Cable gland for 5 to 10 mm diameter cable.
Enclosure Rating	NEMA 4X (IP66).
Weight	6.0 oz (160 g).
Agency Approval	CE.

DIMENSIONS



HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

AVUL **-3** **D** **A1** **-LCD**

SERIES
AVUL: Air velocity transmitter

ACCURACY
-3: ±(3% of reading + 0.2 m/s)
-5: ±(5% of reading + 0.2 m/s)

MOUNTING
D: Duct mount

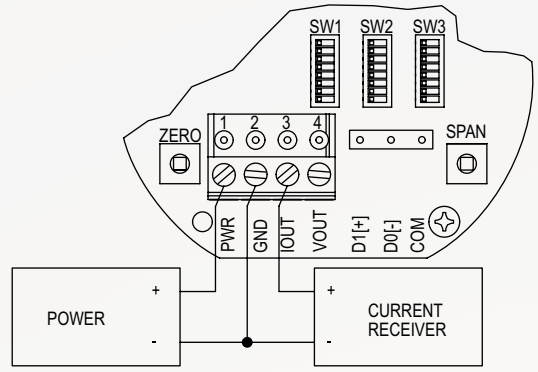
OUTPUT
A1: Analog universal
B1: Analog + BACnet MS/TP
M1: Analog + Modbus® RTU/ASCII communication protocol

OPTIONS
-FC: Factory calibration certificate
-LCD: LCD display
-NIST: NIST traceable calibration certificate
-GLD: Electrical cable gland
-SF: Silicone free

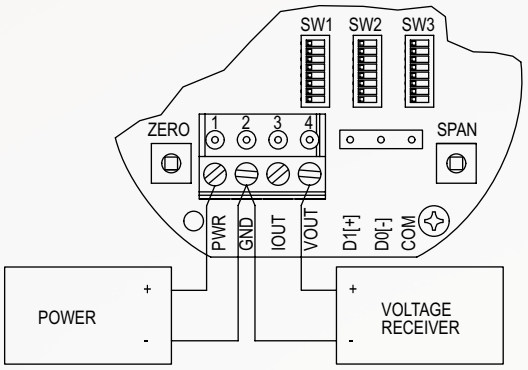
ACCESSORIES

Model	Description
A-151	Cable gland for 5 to 10 mm diameter cable
A-435-A	Remote display tool
A-AVUL-LCD	Field upgradeable display
A-AVUL-MTG	Replacement mounting flange
SCD-PS	100-240 VAC/VDC to 24 VDC power supply

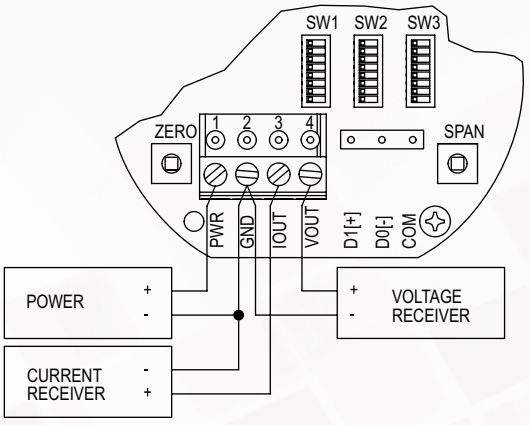
WIRING DIAGRAM



Current output



Voltage output



Simultaneous current and voltage output

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