Air Velocity Transmitter

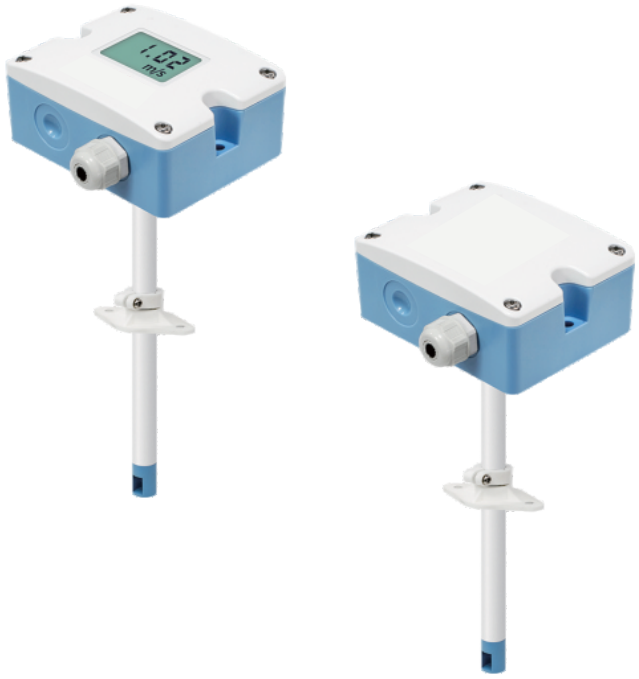
PPI
The Perfection Experts

SAV 1030

0 to 10, 0 to 15, 0 to 20, 0 to 30 m/s Range Options
4-20 mA / 0-10 V / RS485 MODBUS Output Versions
Duct Mounting with Flange
Optional LCD Display
IP65 Protection Class, CE & RoHS Certificates

Process Precision Instruments
Vasai Road (E), Dist. Palghar - 401210,
Maharashtra, India

www.ppiindia.net



Applications

- HVAC Systems - Duct Air Velocity Monitoring
- Cleanroom and Laminar Flow Control
- Ventilation and Exhaust Monitoring in Commercial Buildings
- Environmental Chambers and Wind Tunnel Testing
- Intelligent Building Automation and Energy Efficiency Control
- Fan Speed Verification in Air Handling Units
- Spray Booths and Paint Room Ventilation Monitoring
- Agricultural and Greenhouse Air Circulation Systems

Salient Features

- Hot-Wire Type Air Velocity Transmitter with Fast Dynamic Response
- Imported MEMS Sensing Element for Long-Term Stability and Precision
- PA6 Probe Material for Strength, Durability & Resistance to Wear and Abrasion
- Industrial Polycarbonate Housing with IP65 Protection Grade
- Wide Measuring Range Options :

  0 to 10, 0 to 15, 0 to 20, 0 to 30 m/s
- Output Options : 4 to 20 mA / 0 to 10 VDC / RS485 MODBUS
- Compact Design for Easy Integration into Airflow Systems
- Ideal for HVAC, Ventilation, and Airflow Monitoring Applications
- RoHS and CE Certified for Global Compliance
- Supply Voltage : 24 V AC/DC ±20%

General Information

Product Type	Air Velocity Transmitter

Ordering Code

SAV 1030- ☐ - ☐

Output
C : 4 to 20 mA
V : 0 to 10V
D : RS485 MODBUS

Display
0 : No Display
1 : LCD Display

Example : SAV 1030-C-0
Output : 4 to 20 mA, Display : No Display

Quantity	1 Unit
Accessories	Mounting Flange with Screw Sets

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General Specifications

Housing Material	**Shell** : Polycarbonate (PC) **Probe** : Polyamide 6 (PA6)
Probe Length	210 mm
Power Supply	24 V AC/DC ±20%
Working Temperature	-10 to 60 °C
Storage Temperature	-20 to 80 °C
Protection Class	IP65, IP20 (Probe)
EMC Compatibility	EN61326-1
Certifications	CE, RoHS

Air Velocity

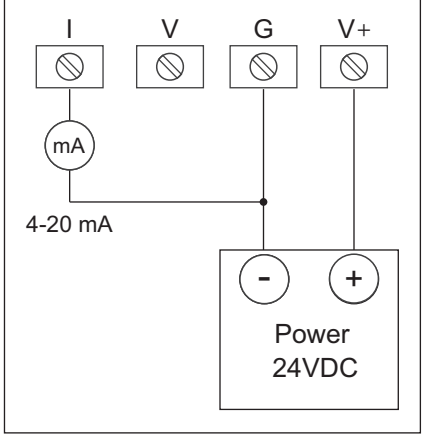
Sensor Type	High Precision MEMS Sensor (Heat Conduction Principle)
Range	0 to 10, 0 to 15, 0 to 20, 0 to 30 m/s
Resolution	0.1 m/s
Accuracy	± 0.2 m/s + 3% of Measured Value @ 20°C, 45% RH, 1013 hPa
Output	4 to 20 mA (Max Load : 500 Ω) 0 to 10 VDC (Min Load : 2 KΩ) RS485 MODBUS

Serial Communication

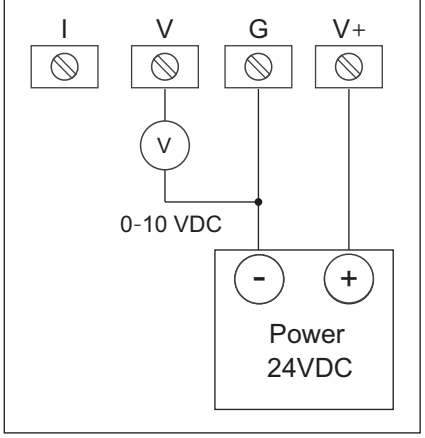
Port	RS485, 2-wire, Half Duplex, Start-Stop Synchronized
Protocol	MODBUS RTU (Slave)
Slave ID	Settable : 1 to 255 (Default : 1)
Baud Rate	Settable : 4800, 9600, 19200 bps (Default : 9600)
Parity	None
Data Format	1 Start Bit + 8 Data Bits + 1 Stop Bit
Temperature & %RH Values	16 Bit Signed Integer or 32 Bit Float Value (0.1°C & 0.1%RH Resolution)

Wiring Instructions

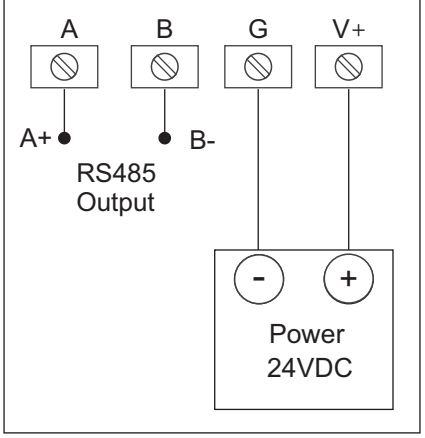
Current Output



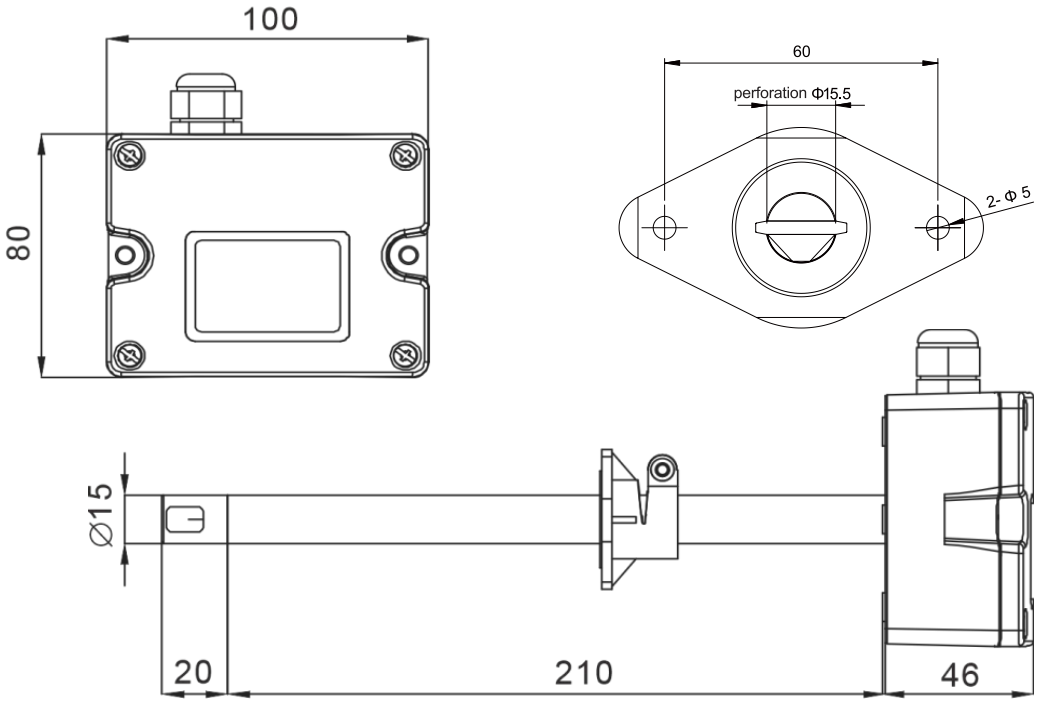
Voltage Output



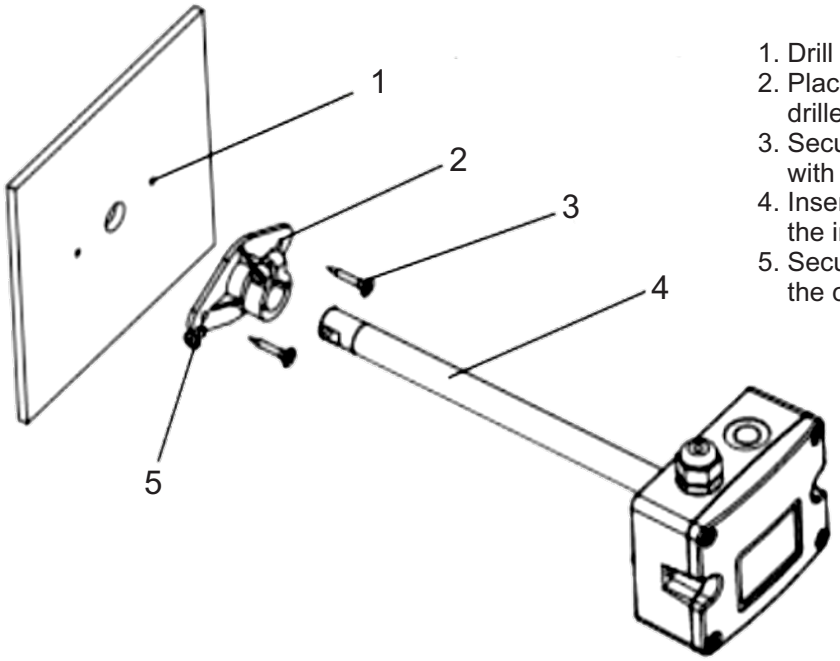
RS485 Output



Dimensions (mm)



Installation



1. Drill holes on pipeline surface.
2. Place mounting flange aligned with drilled holes.
3. Secure the flange to the pipeline surface with screws.
4. Insert the transmitter probe and adjust the insertion length.
5. Secure the probe to the flange by screwing the clamp.

Process Precision Instruments (An ISO 9001 : 2008 Company)

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