

**Description & Features:**

- WPCM Series is an air velocity transmitter engineered for the building automation and HVAC/R industry
- The WPCM measures air velocity with selectable ranges and various outputs
- Designed with fixed duct mounting or more convenient remount mounting configurations
- Each module is equipped with a housing and duct mounting probe which is available in different lengths
- An adjustable collar is available for various insertion depths and suitable for round or rectangular ducts
- Complete protection against overvoltage, reverse polarity and EMC
- Customization available for dedicated installations and private labelling
- 5 year warranty

Applications:

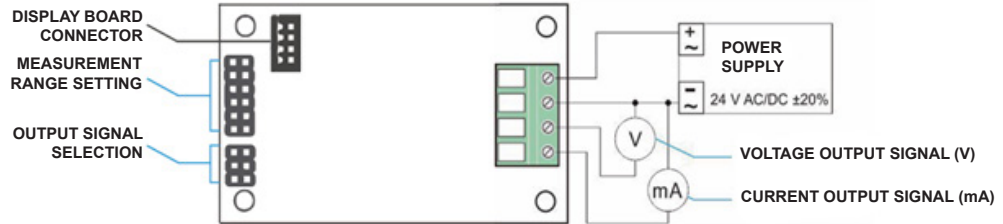
- WPCM is used in the measurement of air velocity in duct and ventilation equipment
- Appropriate for monitoring air and non-combustible gases
- The product is widely used in HVAC control systems of various types in commercial and government buildings as well as manufacturing and processing facilities

Technical Parameters

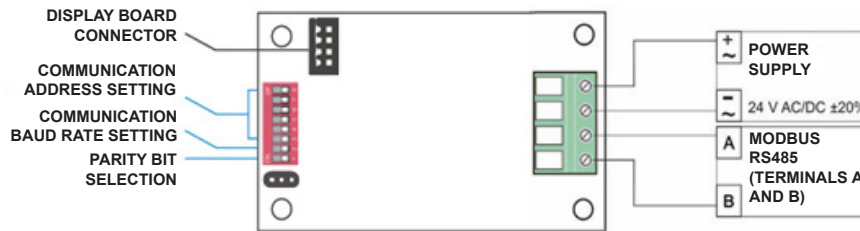
Measurement Range	0–10 m/s, 0–15 m/s field-selectable, custom ranges also available
Accuracy	0.3 m/s + 2% FS (wind speed >3 m/s), reference 1 m/s = 2.24 mph
Output Signal	4/20mA or 0/10V, RS485
Power Supply	12/30VDC, 24VAC ±20%
Long-term Stability	1% Full Scale per year
Housing Temp. Range	-20° to 70°C / -4° to 158°F
Housing Material	ABS, rated IP54
Display	LCD (optional)
Power Consumption	<1W
Probe Material	Integrated: Aluminium alloy, Remote: Stainless steel
Insertion Depth	Integrated: 100 to 210mm (3.94" to 8.27") Remote: 100mm (4"), 150mm (6") or 200mm (8")
Mounting	Integrated: Screw mount with Housing or Adjustable Collar (Plastic ABS), Remote: Threaded (G1/2" male) or flange mount (DN15, 1/2")
Media Temperature	Integrated: -20 to 70°C (-4° to 158°F), Remote: -40 to 400°C (-40° to 752°F)
Product Certification	CE

Wiring Instructions

ANALOG OUTPUT

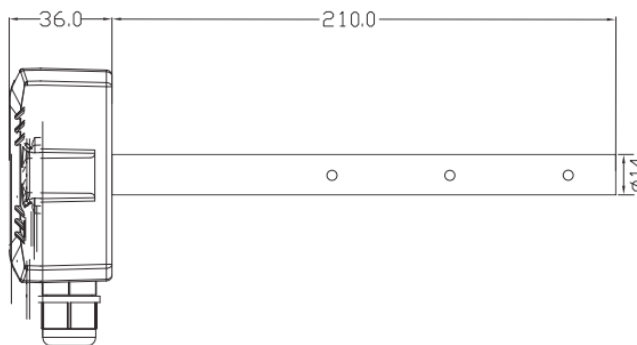
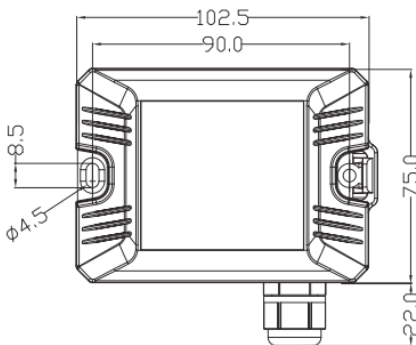


RS485 COMMUNICATION OUTPUT



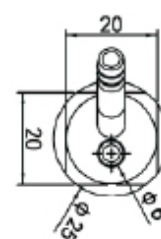
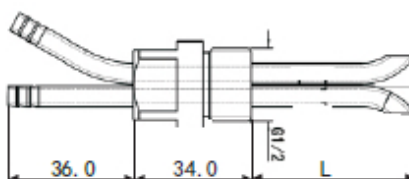
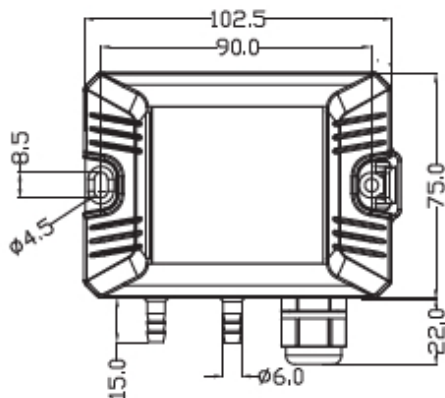
Dimensions (mm)

INTEGRATED PROBE



4.5 mm	= 0.177"
8.5 mm	= 0.335"
14 mm	= 0.551"
22 mm	= 0.866"
36 mm	= 1.417"
75 mm	= 2.953"
90 mm	= 3.543"
102.5 mm	= 4.035"
210 mm	= 8.268"

REMOTE MOUNTED SPLIT PROBE



4.5 mm	= 0.177"
6 mm	= 0.236"
8.5 mm	= 0.335"
15 mm	= 0.591"
20 mm	= 0.787"
22 mm	= 0.866"
25 mm	= 0.984"
34 mm	= 1.339"
36 mm	= 1.417"
75 mm	= 2.953"
90 mm	= 3.543"
102.5 mm	= 4.035"



FLANGE CONNECTION (DN15, 1/2"), SF

1.5M ((4.9') CLEAR PLASTIC TUBING INCLUDED



THREADED CONNECTOR (G 1/2"), ST

IMPORTANT NOTES:

1. Measurement accuracy and stability depend on the correct orientation of the sensing probe and the secure mounting of the housing. The probe hole direction must correspond to the airflow direction inside the duct / ventilation chamber. The WPCM Series must be installed in a location which allows airflow to pass for proper sensor measurement.
2. The transmitter must be installed in a straight section of ductwork. Do not install it near bends, throttle valves, or any area that may restrict airflow or generate vibration.
3. It is recommended to use shielded cables for the transmitter wiring, and to avoid running them in parallel with other communication or power cables (in the same conduit), to avoid interference.
4. If this device is not operated in clean environments, the sensing probe will need to be cleaned regularly to reduce any accumulative effects on the measuring accuracy.

Selection Table

WCPM Series - Integrated Version - Air Velocity Transmitter for Ducts & Ventillation Systems

Description	Technical parameters					
Power supply	24 Vac/Vdc	4				
Output signal	4/20 mA, 0/10 V		8			
	RS485		R			
Measuring range	0–10 m/s, 0–15 m/s field-selectable			1		
	Other ranges			D		
Housing and Sensor Mounting Type	Duct Mounting Type with Collar				W1	
LCD	Without LCD display					-
	LCD display included					L
Customization	Special types, labelling etc					Z###

WCPM Series - Remote Mounted Split Probe - Air Velocity Transmitter for Ducts & Ventillation Systems

Description	Technical parameters					
Power supply	24 Vac/Vdc	4				
Output signal	4/20 mA, 0/10 V		8			
	RS485		R			
Measuring range	0–10 m/s, 0–15 m/s field-selectable			1		
	Other ranges			D		
Sensor Mounting Type	Threaded connection, G 1/2", 100mm/4" probe length				ST1	
(1.5m/4.9' tubing included)	Threaded connection, G 1/2", 150mm/6" probe length				ST2	
	Threaded connection, G 1/2", 200mm/8" probe length				ST3	
	Flanged connection, DN15/0.5", 100mm/4" probe length				SF1	
	Flanged connection, DN15/0.5", 150mm/6" probe length				SF2	
	Flanged connection, DN15/0.5", 200mm/8" probe length				SF3	
LCD	Without LCD display					-
	LCD display included					L
Customization	Special types, labelling etc					Z###