

FLOW MEASUREMENT TRANSMITTER—AF1

THE INEXPENSIVE MEASUREMENT TRANSMITTER

AIR VELOCITY MEASUREMENT MADE EASY

- High degree of stability and repeatability
- Compact design
- The outputs and measuring ranges can be configured using DIP switches
- Simple mechanical installation
- Outstanding price/performance ratio
- Ideal for HVAC applications



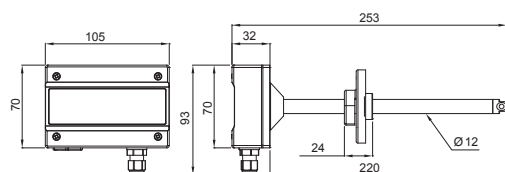
TECHNICAL INFORMATION

Air velocity measurement

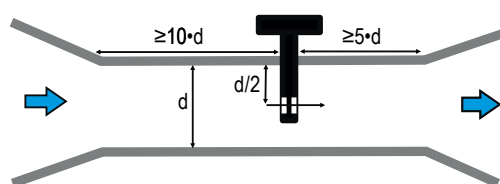
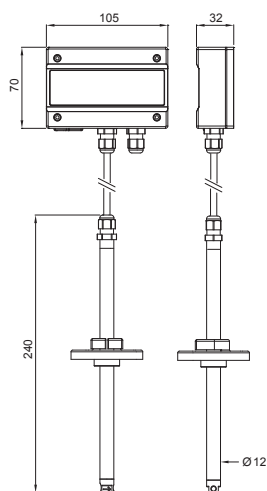
The AF1 series is a cost-effective, high-precision and stable transmitter for measuring air velocity. The devices have a calorimetric sensor and outstanding long-term stability. The measuring range and the output signal can be configured easily and without additional software using dip switches.

Dimensions (in mm)

Duct version



Wall version



General	
Device type / parameter	Transmitter / air flow rate
Range of application	0...50 °C (housing) 0...80 °C (medium)
Storage conditions	-20 .. 60 °C
Power supply	8...35 VDC or 12...30 VAC 50/60 Hz
Current Consumption	<200 mA
Circuit type	3-wire
Mounting position	Sensor at 90° angle to flow
Configuration	Via integrated DIP switch
Air flow rate measurement	
Measurement technique	Calorimetric
Measurement range	2 m/s; 5 m/s; 10 m/s; 15 m/s; 20 m/s
Measuring medium	Air and non-aggressive gases
Accuracy	±3.0 %full-scale with 23 °C ±3 K, 45 %RH, 1013 mbar
Influence of installation position	<3 % of measurement with <10°
Measurement interval	1 s
Pressure resistance	10 bar
Jump response	τ90 after 3 s
Analog Outputs	
Number	1
Analog output type	4...20 mA or 0...10 V
Maximum load	>10 kΩ (voltage output)
Minimum load	<500 Ω (current output)
Conformity	
IP protection	IP65
CE / EMC compatibility	EMC Directive 2004/108/EC
Housing / Mechanical parts	
Housing material	Polycarbonate
Dimensions	105 x 70 x 32 mm
Electrical connections	Screw terminals
Cable gland	M12 x 1.5 (Ø cable 3...6.5 mm)
Weight	Duct version: 165 g Cable version: 260 g

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Would you like more information? A complete overview of the AF1 series can be found at www.rotronic.com