

Air Flow Sensor

Description

Air flow sensor is applicable to all kinds of building automation, environment monitoring, HVAC systems. Product appearance is simple, direct connection terminals, convenient installation. Products use high performance embedded microprocessor, and high-precision sensors to meet all kinds of high precision, high stability of the measurement requirements, and variety needs of different environment. Air flow sensor has current, voltage, 485 output signal to select, using 485 serial port output and Modbus communication protocol. It is commonly used in HVAC, electrical plant, environment monitoring, dynamic environment monitoring, agricultural environmental monitoring, meteorological environmental monitoring, environmental monitoring of biological pharmacy, airport, subway stations, hotel, museum, stadium, etc.



AFS-150

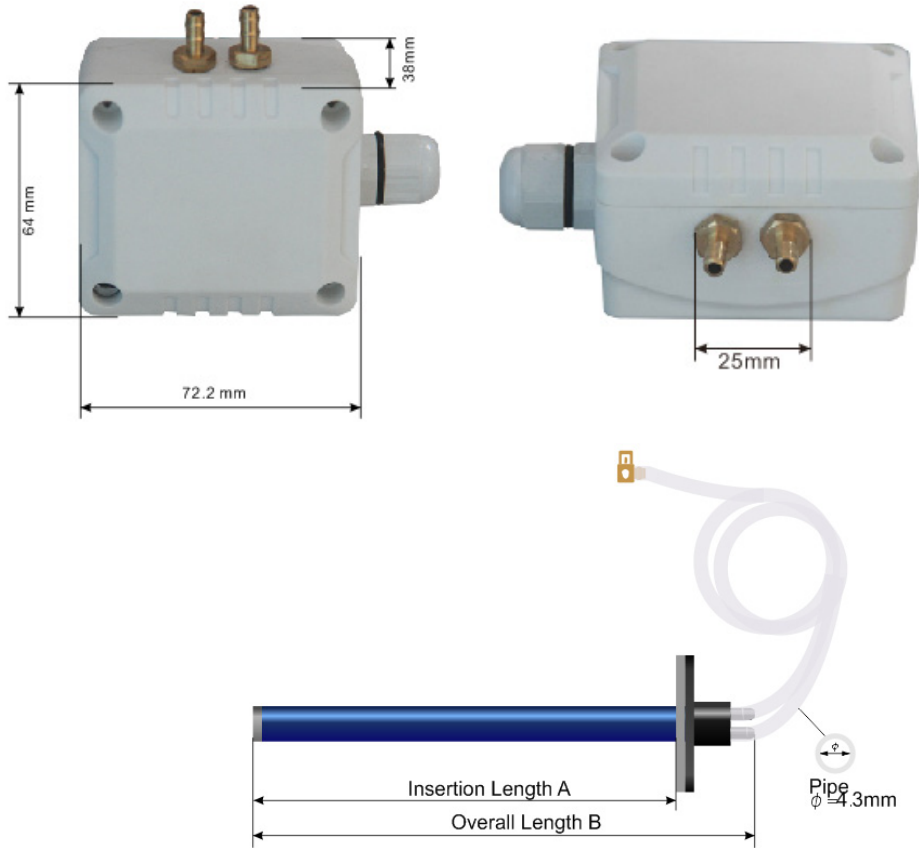
Highlights

- High precision pressure sensor
- HVAC systems
- Advanced circuit design, high accuracy, stable performance
- Appearance is concise, easy to install, cost-effective
- Sensor with active output
- Programmable measuring range control output and fan manufacturer fan characteristic
- Professional and practical product design withstands rough environmental conditions
- Support Modbus and Bacnet protocols

Specifications

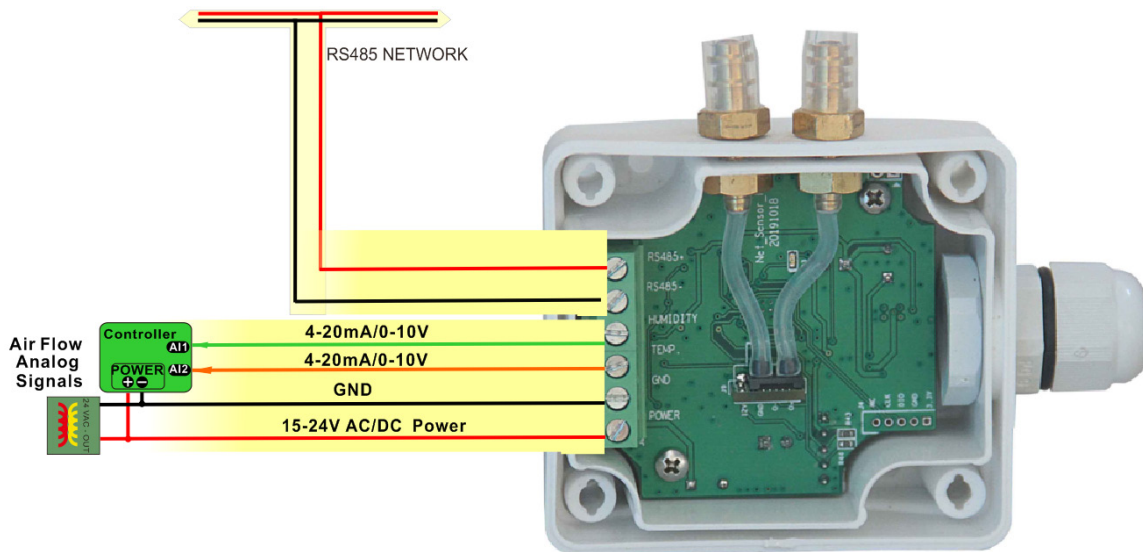
Typical Application	Duct mount indoors	
Output Signal Type	4-20mA, 0-10V	
Output Signal Drive	> 500Ω for mA mode, 75mA, max output drive for voltage mode	
Power	15-24V +/- 10% AC or DC, 1 Watt typical	
Operating Temp	-30-60°C, 0-95% non condensing	
Plastic Housing	Flammability rating UL 94V0 file E194560	
Size	72.2mm X 64mm X 38.4mm	
Pressure	Measurement range	- 1500 to + 1500 Pa (-6 to 6 inches H2O)
	Zero point accuracy	0.2 Pa
	Span accuracy	3% of reading (- 500 to + 500 Pa), 6% of reading (- 1500 to + 1500 Pa)
	Zero point repeatability	0.1 Pa
	Span repeatability	0.5% of reading (- 500 to + 500 Pa), 3% of reading (- 1500 to + 1500 Pa)
	Span shift due to temperature variation	< 1% of reading per 10°C
	Offset stability	< 0.03 Pa/year
	Flow step response time	< 3ms
	Resolution	16 bit
	Calibrated for	Air, N2
	Media compatibility	Air, N2, O2, non-condensing

Dimensions



Insertion Length A (mm)	Overall Length B (mm)
150	193
200	243
250	293
300	343
1000	1043
Other custom lengths are available, no minimum order	

Wiring Diagram



Part Number Scheme

AFS — 150

Code	Description
AFS	Air Flow Sensor

Code	Pitot Length
150	6"
200	8"
250	10"
300	12"
1000	39"
*	other custom lengths are available .no minimum order

Mounting Installation

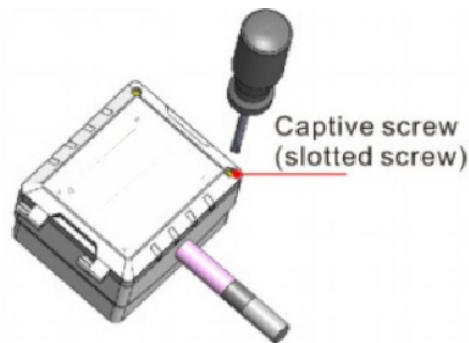
1) Slotted screwdriver



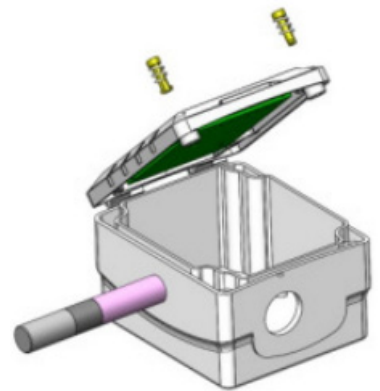
Captiver screw(slotted screw)



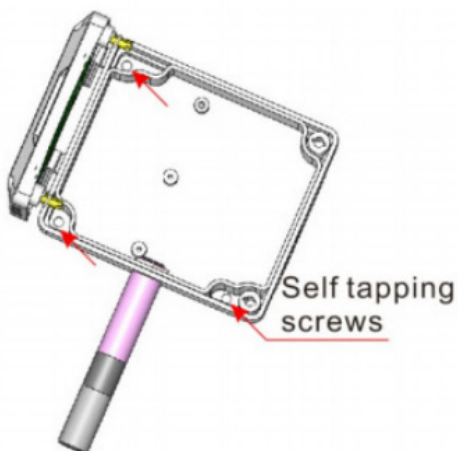
2) Unfasten screw at cover,turn the screw 1/2 turn till it pops out



3) Open the cover



4) There are three small holes as red arrows showed below inside the box for fastening self tapping screws drilling the hole in the duct with a template



5) Re-fasten screw at cover

