

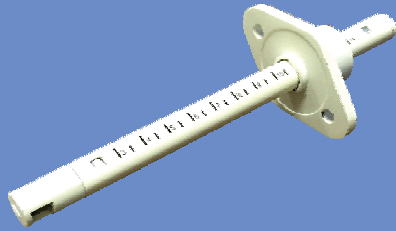


Wisenstech

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MEMS insertion flow meter

Integrated temperature and humidity sensor



AM1000 series

- Designed for free space or conduit flow measurement
- Integrated mass flow, temperature and humidity sensors
- Easy installation without alteration of existing pipeline
- Digital and analog linear output with fast response time
- Cost effective with low power consumption

Specifications

Flow range	0~30	m/sec
Flow sensing accuracy	±2.5	%FS
Repeatability	±1.0	%
Response time	200	msec
Temperature sensing	-20~125	°C
Pressure rating	5.0 (60)	bar (PSI)
Humidity sensing	0~100	%RH
Storage temperature	8~24	Vdc
Power supply	20.0	mA
Power consumption	-20~85	°C
Output/Interface	0.5~4.5	Vdc
Optional interface	RS485(Modbus); analog; Bluetooth 4.0	
Calibration	Air, 20°C , 101.325kPa	
EMC rating	EN61326-1/2/3	
Protection	IP20/40	

This product is integrated with the MEMS mass flow, temperature and humidity sensing chips. The flow speed is calibrated in a wind tunnel configuration that ensures high precision for measurement of the flow speed/flow rate in an open space or inside a conduit.

The design is intended for smart HVAC in an IOT (internet of things) cluster configuration. It provides the air mass flow without additional temperature and pressure compensation, as well as temperature and humidity data. It can also be readily plug-and-play in other applications where the cost and portability are mandatory. Additional battery power option is also available upon request.

