Mod. FAT

Air Flow and Temperature Sensor
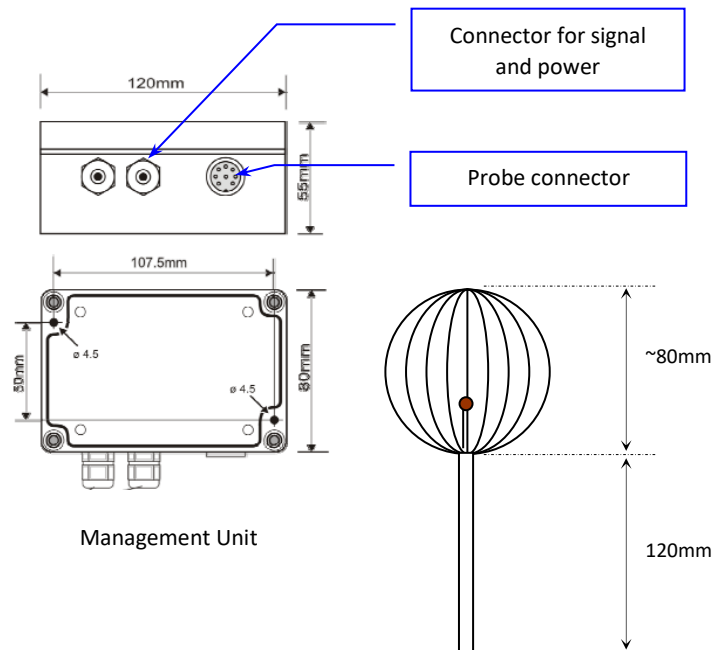
Highlighted specs

- Temperature and Air Flow sensor for indoor applications
- High sensibility: 0.01 m/s
- Selectable signal output (voltage or current)
- Easy to install
- According to CE norms

The sensor FAT is a sensor for measuring air flow with an omni-directional hot-wire probe, that allows the measurement for both air speed and temperature. Thanks to the different types of standard **signal output** (**voltage or current**) or **digital RS485** with **ModBus** (MCS option), it can be easily interfaced with any acquisition system.

Typical measurement range	0.1÷5m/s (Air flow); -20÷80°C (Temperature)
Resolution	0.01 m/s
Accuracy	**Air Speed:** ±0.1m/s (0…0.99m/s), ±0.3m/s (1.00…5.00m/s) **Temperature:** ±0.3°C (0…70°C), ±0.4°C
Compensated temperature range	0÷80°C
Load resistance	Max 500Ω for current output, min100kΩ for voltage output
Type of transducer	All-directional hot-wire probe
Signal output	4÷20mA o RS485/ModBus (with MCS option)
Protections	Against polarity reverse
Protection degree	IP65
Power supply and consumption	12÷30Vdc, (typ.<0.5W)
Weight	300 g

Size and connections

Pin	FAT-A MCS option	FAT-B	FAT-C MCS option
1			
2	FA Out+ (m/s)	FA Out +	RS485 A
3	FA Out- (m/s)	FA Out -	RS485 B
4	Gnd	Gnd	Gnd
5	Vdc(12V)	Vdc(12V)	Vdc(12V)
6	T Out+ (°C)	T Out+ (°C)	---
7	T Out- (°C)	T Out- (°C)	---

Connector for signal and power

Probe connector

120mm

55mm

107.5mm

50mm

80mm

ø 4.5

ø 4.5

~80mm

120mm

Management Unit

Order Code

Sensor	Air Flux and Temperature Sensor	FAT			
Output	4÷20mA		B		
	RS485 / Modbus (with double MCS option)		C		
Accessories	CS05 – Cable 5m sensor-datalogger			05	
	CS10 – Cable 10m sensor-datalogger			10	
	CSxx – Cable xx* m length, sensor-datalogger – to be specified at order			xx	
	SSW – Sensor wall arm support L=7cm				SSW
*specify the length for no standard measures		example of order code	FAT	B	10	SSW