

Hot wire thermal flow controller



Micro-corrosion water and air measurement.
Strong housing with analog and RS-485 output.

FTM06

| Feature |

- IP67
- PTC thermistor
- Analog and RS-485 output
- Applicable micro corrosion water or air
- Strong stainless steel housing, for a variety of harsh environments

| Introduction |

FTM06 is based on thermodynamic principle, there are 2 temperature sensors inside the probe: one for temperature measurement, the other one as a measuring conveyor after heated.

Temperature difference between the two as a basis for measuring flow rate. When the medium flow rate increases, the temperature difference decreases.

The temperature difference converted to standard signal output after processed that is why flow rate can be measured by these two sensors. All-metal housing, suitable for a variety of pipe diameters.



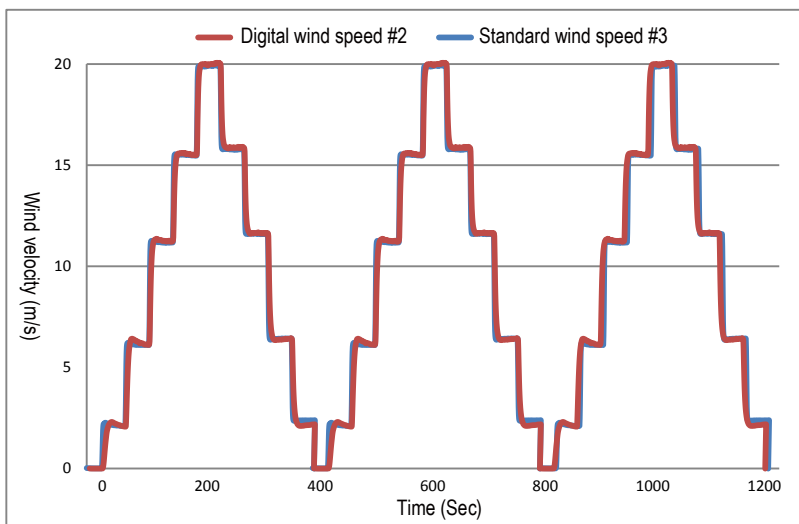
“ Application :
Industrial process gas supply / consumption and dry flow monitoring / Compressed air consumption measurement / Buildings / Factories / Clean rooms / Hospitals / Semiconductors / Electronics / Paper / Printing / Textiles / Steel / Food / Chemicals / Pharmaceuticals / Biotechnology industries ”

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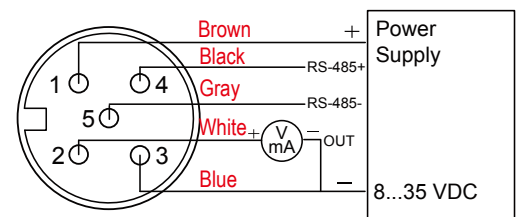
| Specification |

Item	Function & Parameter	
Input	Type	PTC thermistor
	Range	Water : 0 ... 1.5 m/s Air : 0 ... 20 m/s
	Minimum initial value	0.2 m/s
	Installation angle effect	< 3% of the measured value (When the installation angle < 10 degrees)
Output	Signal	Analog : 4 ... 20mA / 0 ... 10V ; RS-485
	Signal connection	3-wire
	Product accuracy	3% < 1.5 m/s ; 3% < 20 m/s
	Linear accuracy	NA
	Warm-up time	< 8 secs.
	Response time	About 2 secs.
	Temperature effect	NA
	Load resistance	Voltage output : $\geq 10\text{ K}\Omega$ Current output : $\leq 500\ \Omega$
Environmental	Medium	Water and gas which is compatible with stainless steel
	Operating Temp. & humidity	0 °C ... 50 °C
	Storage Temp.	- 20 °C ... 85 °C
Electrical	Power supply	8 ... 35 VDC
	Current consumption	24V : 80 mA
	Electrical connection	M12 Metal quick connector
Installation	Mounting bush	Metal connector
Protection	Protection rating	IP67
	Electrical protection	<ul style="list-style-type: none"> ▪ Polarity protection ▪ Over-voltage ▪ Short-circuit
Material	Housing	SUS304
	Weight	Metal : 347g (Without wire)

| 3-Cycle curve |



| Connection Diagram |

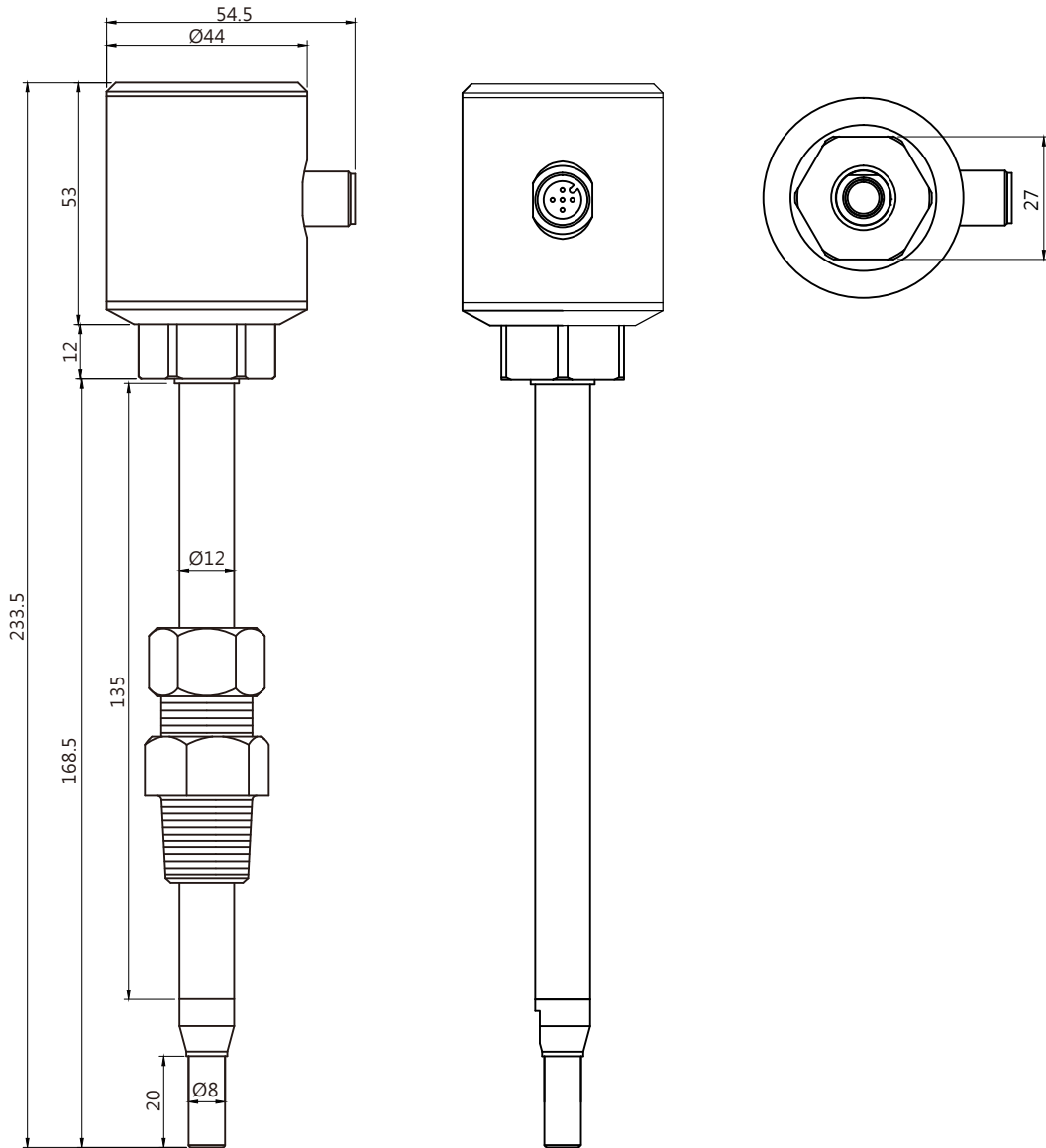


Analog with RS-485 output

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| Dimension |

Ø12 Plus R1/2 Quick connector



| Ordering Guide |

	Medium	Range	Type	Power Supply	Installation	Option
FTM06	A	10	2	1	3	N
	A Air W Water	10 10 m/s (Air) 20 20 m/s (Air) 15 1.5 m/s (Water)	2 4 ... 20mA + RS-485 3 0... 10V + RS-485	1 8 ... 35 VDC	3 Ø12 Plus R1/2 Quick connector	N None W Customization