



Air velocity-FTM06T-A

Thermal Mass Type Air Velocity Transmitter

FTM06T-A

Exhaust gas best solution of air velocity and flow monitoring



Gas application :

Semiconductor / Electronics industry / Biotechnology industry / Food / Pharmacy / Papermaking

| Features |

- Operation buttons to set the diameter range; for measuring flow and velocity
- Analog / RS-485 / Impulse output, multiple output options
- Capable of temperature compensation, accurate measurement
- Using constant temperature anemometer(CTA) technology, good sensitivity
- Turndown ratio 50 : 1 , excellent repeatability at low velocity
- IP65 IP rating (IP67 optional), stainless steel casing, suitable for various severe environments, such as slightly corrosive gas



No display type



Flange type

| Introduction |

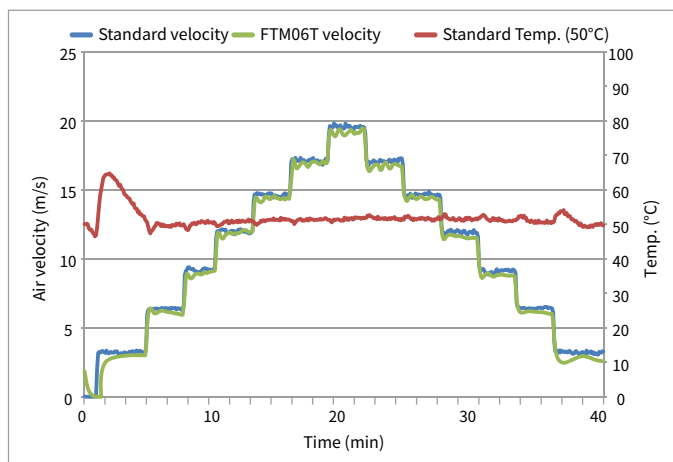
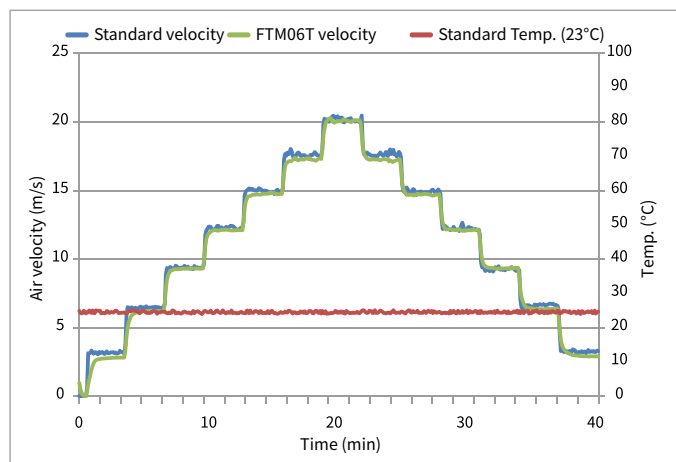
FTM06T-A thermal mass type air velocity and Flow transmitter, contains three sensing elements (Rh / Rt / PT), the heater (Rh) is used for measurement, temperature compensation sensor (Rt), the temperature sensor (PT) that detects the air flow is used as a reference to measure the temperature of the medium.

Rh is the heating body, Rt is used to sense the temperature change of the water flow; as the water velocity increases, when the fluid passes through Rh, it will take away more heat; PT will sense the current temperature of the gas at any time.

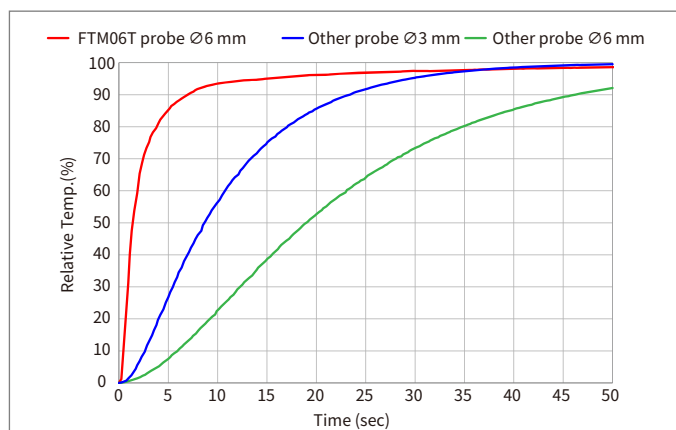
The temperature difference between the two sensors of Rh and PT is used as the basis for measuring the flow rate, when the medium flow rate increases, the temperature difference value is decreased, and conversely increase, the temperature difference value is processed and converted into standard signal output and displayed, through the unique linear regression technology, a good flow rate performance is obtained.



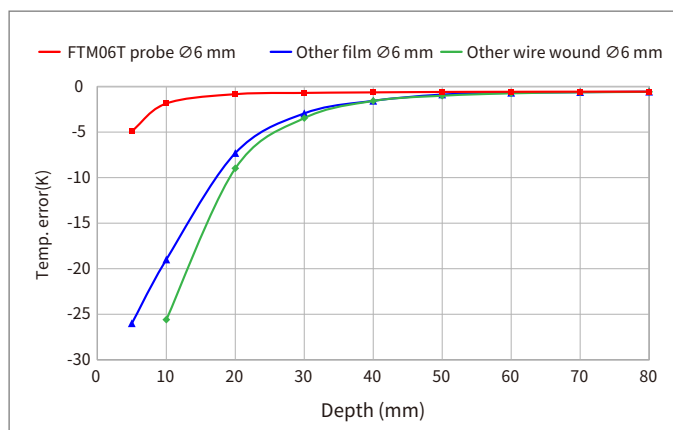
| Temperature Compensation-Air |



| Reaction curve |



| Depth Curve |





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| Specification |

Input

Signal type	Thermal mass flow sensor
Range	0 ... 20 m/s ; 0 ... 40 m/s
Turndown ratio	50 : 1
Installation angle influence	<5% of the measured value

Output

Signal	4 ... 20 mA+RS-485 0 ... 10 V+RS-485 Impulse+RS-485
Default output	Out1:Velocity / Out2:NA
Signal connection method	3-wire
Accuracy	$\pm 3\%$ 0 ... 20 m/s $\pm 5\%$ 0 ... 40 m/s
Temp. influence	$1^{\circ}\text{C} \leq 0.1\%$
Warm-up time	<60 sec
Reaction time	≤ 30 sec
Load impedance	Voltage output: $\geq 10 \text{ K}\Omega$ Current output: $\leq 250 \Omega$

Electrical

Power supply	DC 24 V $\pm 10\%$
Current consumption	<0.2 A
Electrical connections	M12 Metal connector

Environmental

Medium	Air
Operating Temp. (Including body)	0 ... 50°C
Operating Humid. (Including body)	20 ... 90%RH(Non-condensing)
Probe Operating Temp.	0 ... +80°C
Storage Temp.	-20 ... +85°C
Storage Humid.	0 ... 95%(Non-condensing)
Probe pressure	16 bar

Installation

Flange	Metal flange mount
Thread	R1/2" metal connector
Flange pipe	Flange pipe

Certification

Certification	CE
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Protection

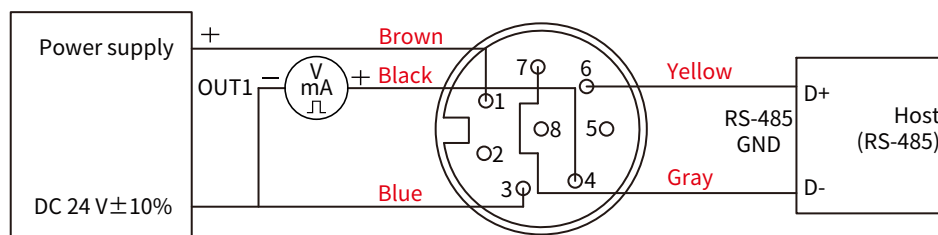
IP rating	IP65(IP67 optional)
Electrical protection	■ Polarity protection ■ Over-voltage ■ Short-circuit

Material

Cover	Cover : PC(Display) SUS 304(No display)
Body (including probe)	SUS304
Filter	SUS316L
Weight	475 g

*Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.

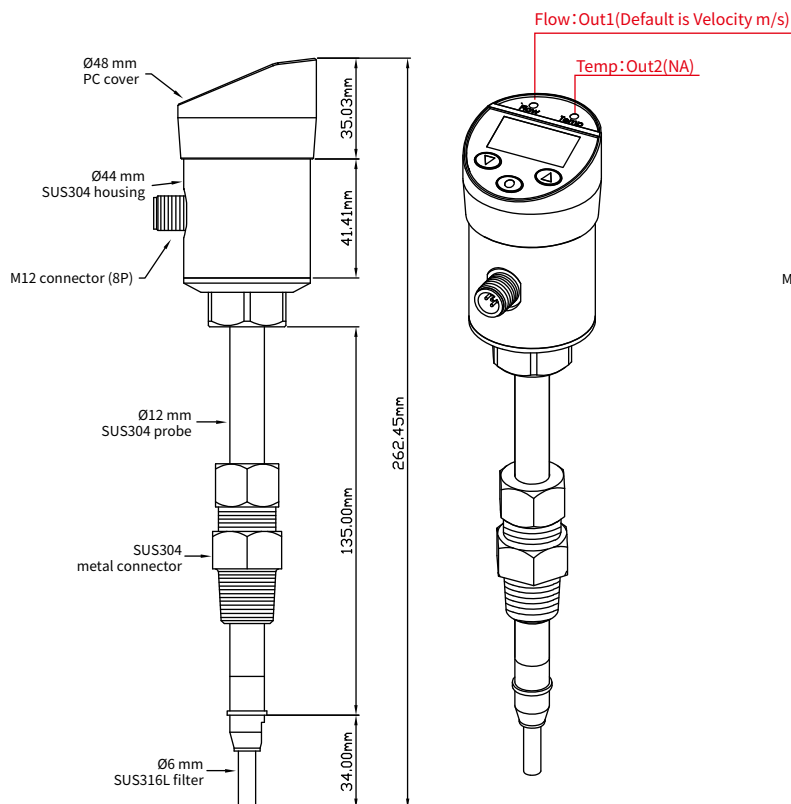
| Diagram |



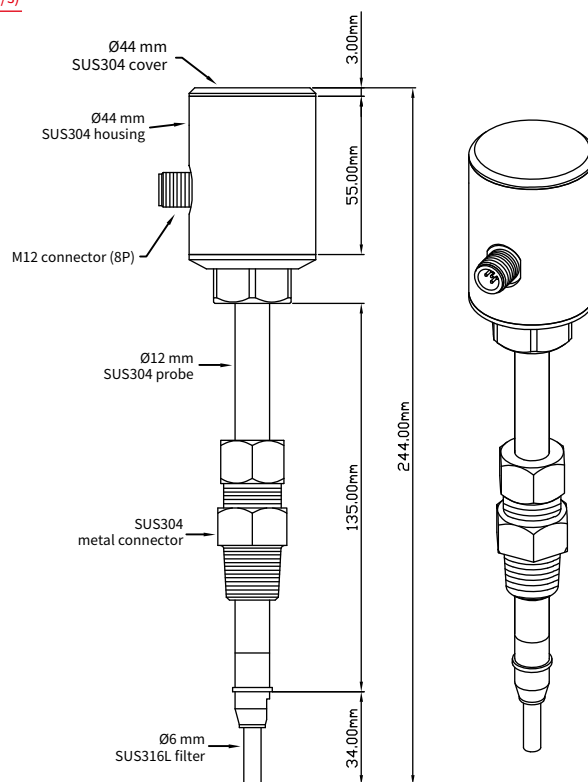
Analog+RS-485 / Impulse+RS-485

Dimension | Unit : mm

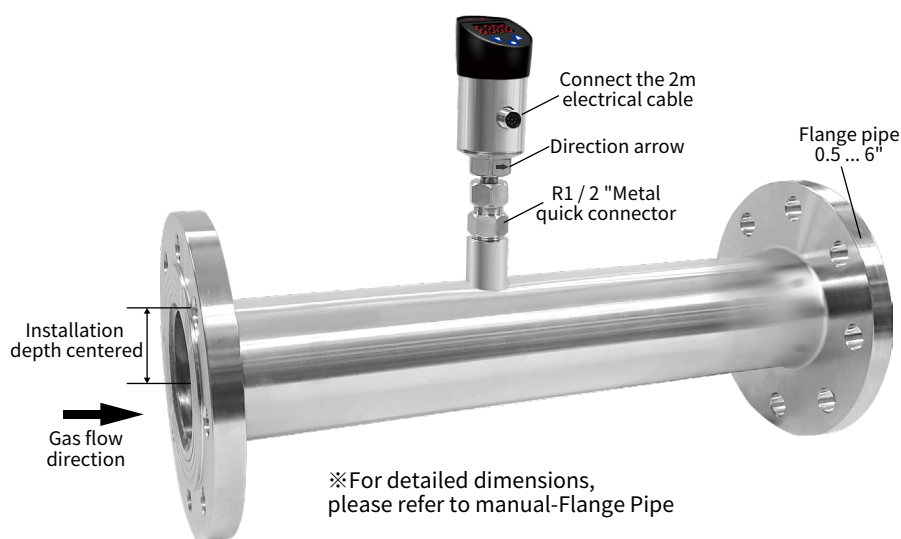
FTM06T Display type



FTM06T No display type



Flange Installation |





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| Additional Option Test Report |

For more detailed information please contact us.

■ ILAC / TAF

YUDEN-TECH CO.,LTD. Calibration Laboratory - (ILAC / TAF) Test report.

(TAF accreditation:3032, complying with ISO / IEC 17025) TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range
Air velocity transmitter	0.2 m/s ... 60 m/s

■ ISO 9001

Project	Measurand level or range
Air velocity / Air volume	Air velocity : ≤ 120 m/s
	Air volume : 0.5 m ³ /h ... 1000 m ³ /h