FTC06
Temperature & Flow Transmitter

Recommended
eyc-tech DPM04
Flow Totalizer

0 ... 3 m/s (Water)
0 ... 60 m/s (Air)

| Features |

- Rugged aluminum housing for harsh environments.
- Thermal mass measurement with fast response and low pressure loss.
- RS-485 output for real-time flow and temperature.
- Works with eyc-tech DPM04 for instantaneous and totalized flow display.
- Tracks flow changes for early anomaly detection and preventive maintenance.
- Optimizes cooling efficiency and supports ESG energy savings.
- One-piece probe design for stable long-term liquid cooling measurement.

| Applications |

AI Servers / Precision Manufacturing / Data Centers / Semiconductor / Electronics / Chemical / Pharmaceutical / Steel industry / Biotechnology / Industrial process monitoring / Air conditioning / Cleanroom / Laboratory / Weather station / Hospital / Buildings / Dryers / Factories / Storage rooms / Environmental ventilation control / Environmental test chambers / Greenhouses

| Specifications |

Input

Sensor type	PT sensor
Measuring range	0 ... 3 m/s (Water)
	0 ... 60 m/s (Air)

Output

Output	4 ... 20 mA / RS-485 / NPN
Load resistance	Current output : ≦500 Ω
Response time (at +25°C)	t90 ＜10 sec
Filter response	0 ... 100 adjustable
Sampling time	1 cycle/sec

Accuracy (at +25 °C)

Repeatability	±0.5%
Water flow	0 ... 1 m/s：±(1% of mv. + 0.05 m/s)
	1 ... 2 m/s：±(2% of mv. + 0.2 m/s)
	2 ... 3 m/s：±(3% of mv. + 0.3 m/s)
Air flow	0 ... 30 m/s：±(1% of mv. + 0.5 m/s)
	30 ... 60 m/s：±(1.5% of mv. + 1 m/s)
Temperature	±0.5% of F.S
Temperature drift	≦0.5% F.S. / °C
Installation angle effect	<1.5 % mv for α <10°
Uncertainty of factory calibration	±1%

Communication

Comm. Interface & Protocol	RS-485 Modbus RTU
RS-485 Baud Rate	9600、19200、38400、57600、115200 bps

*The measurement range is defined at the standard condition(1013 mbar, 25°C).
*mv = measured value
*At an air velocity of 0 m/s, self-heating of the probe may affect the temperature reading in air. Therefore, the measured value may not represent the actual ambient temperature.
*CAUTION: The probe may become hot during operation. To prevent burns, do not touch the probe directly.

Electrical

Power supply	DC 24 V ±10%
Current consumption	< 120 mA
Electrical connection	M12 8P connector

Environmental

Medium	Liquid, air
Operating Temp. (Housing)	-20 ... +60°C
Operating Humid. (Housing)	0 ... 90% (Non-condensing)
Probe Operating Temp.	0 ... 50°C
Storage temperature	-25 ... +60°C
Probe pressure resistance	16 bar

Installation

Installation	1/4"G or 1/2"G thread

Certification

Certification	CE

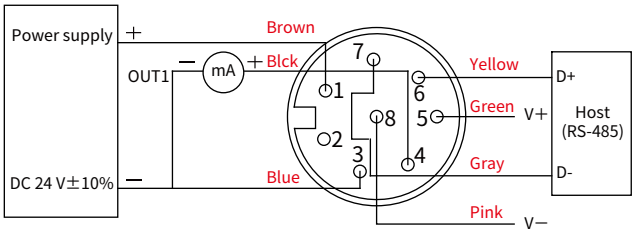
Protection

IP rating	IP65 (Housing), IP67 (Option)
Electrical protection	■ Reverse polarity ■ Over-voltage

Material

Probe	316L
Housing	Aluminum alloy
Weight	1/4"G thread : 85 g
	1/2"G thread : 105 g

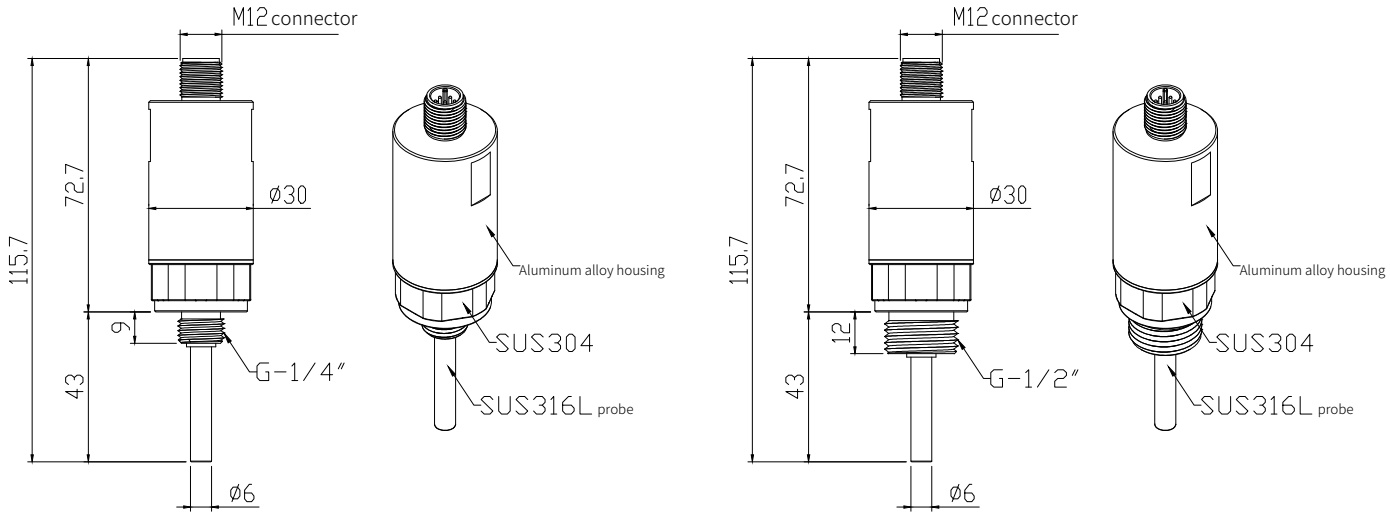
| Diagram |



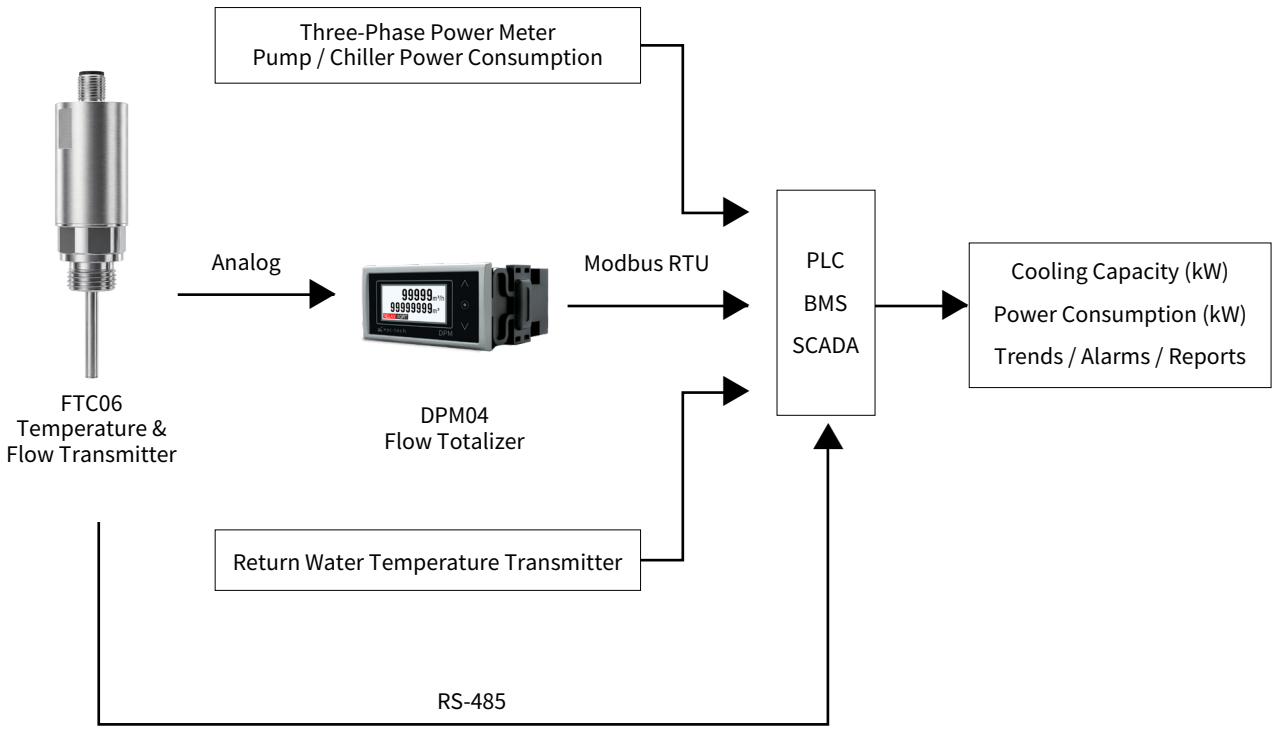
M12 (8P)

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

| Dimension | Unit：mm



| Recommended Configuration |



| Ordering Guide |

Product ordering number	Product Specifications
FTC06-W1	O/P：0 ... 3 m/s to 4 ... 20 mA + RS-485+NPN, 1/4 G
FTC06-W2	O/P：0 ... 3 m/s to 4 ... 20 mA + RS-485+NPN, 1/2 G
FTC06-A31	O/P：0 ... 30 m/s to 4 ... 20 mA + RS-485+NPN, 1/4 G
FTC06-A61	O/P：0 ... 60 m/s to 4 ... 20 mA + RS-485+NPN, 1/4 G
FTC06-A32	O/P：0 ... 30 m/s to 4 ... 20 mA + RS-485+NPN, 1/2 G
FTC06-A62	O/P：0 ... 60 m/s to 4 ... 20 mA + RS-485+NPN, 1/2 G

| 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
Flow transmitter	Water flow rate : 2.54 m^3/h ...30 m^3/h (42.3 L/min ... 500.0 L/min)
	Water flow velocity : 0.2 m/s ... 3 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
Flow	Water flow velocity : 0.0 m/s ... 5 m/s
	Water flow rate : ≦ 580 L/min

* Calibration Condition : Measuring tube DN40 (1.5″), DN80 (3″)