

Measuring Specialist

Air Velocity / Air Volume / Flow series



Calibration lab (ISO / IEC 17025)
Factory automatic QC inspection system (IEC 61298 / ISO 9001)



eYc Brand Concept

Sustainable

With the light, air and water, the earth is being nourished and operate in a sustainable and prosperous way, E icon brings about the same image! The “ water drop “ inside the eYc logo represents the innovative thinking like a gush of living water, which is also our pursuit!.

Green

To be a Green corporate is our vision for the society. Green stands for energy-saving, environmental-protection, passing-on and power of life! We start from Taiwan and then move forward to the world over, with this vision, to develop innovative products and service so that we create our core competency along with the utmost value for our customers and the society.

Professional

Our core concept is to develop a variety of products of high precision, quality, and stability. Applications coverage include HVAC, pharmaceutical industry, green house, environmental engineering, food, hospital, agriculture, heavy industry and the like, high-precision measurement for temperature, humidity, air Velocity, air Volume, pressure, flow in production procedure, monitoring on air quality transmission and performance of control panel.





YUDEN-TECH CO.,LTD. Calibration Laboratory

International Laboratory Accreditation Cooperation ; ILAC
TAF (ISO / IEC 17025) Accreditation No.3032

YUDEN-TECH CO.,LTD.(eYc brand) is from TAIWAN TAIPEI. In 2013, YUDEN-TECH CO.,LTD. and the Measurement Center of Industrial Technology Research Institute jointly established a calibration laboratory. The calibration laboratory of YUDEN-TECH CO.,LTD has the TAF (ISO/IEC 17025) certification (certification number: 3032) of the professional calibration laboratory for temperature and humidity, dew point, air velocity, flow, and pressure.

The National Accreditation Foundations (TAF) a certification body, accredited by the International Laboratory Accreditation Alliance (ILAC), has signed an inspection mutual recognition agreement with ILAC. It provides accurate calibration services through TAF on behalf of Internationally recognized grade standards and can be traced back to the SI unit. Our calibration laboratory has the measurement uncertainty evaluation report and calibration procedures for each system. We believe that after our service will help our clients to maintain the best quality and stability of your sensor and instrumentation standards.



Contents

AFMT Average Flow Measuring Tube (Pitot tube).....	P01
PHD330 Industrial Differential Pressure Transmitter.....	P02
PMD330 Differential Pressure Transmitter(Indoor).....	P03
FTM94/95 Industrial High Accuracy Thermal Mass Flow Transmitter.....	P04
FTM06C-A Thermal Mass Air Velocity and Air Volume Transmitter.....	P05
FTM84/85 Industrial High Accuracy Thermal Air Velocity Transmitter.....	P06
FTM06D Thermal Mass Flow Transmitter.....	P07
FTE120 OEM Air Velocity Transmitter.....	P08
FTS34/35 Air Velocity Transmitter.....	P09
FTS140 Hot Wire Air Velocity Transmitter.....	P10
FTS14 Thermal Air Velocity Transmitter.....	P11
FTS07 Hot Wire Air Velocity Transmitter for Probe Type.....	P12
FTC05 Hot Wire Thermal Flow Switch.....	P13



**Air
velocity**

AFMT

Average Flow Measuring Tube (Pitot tube)

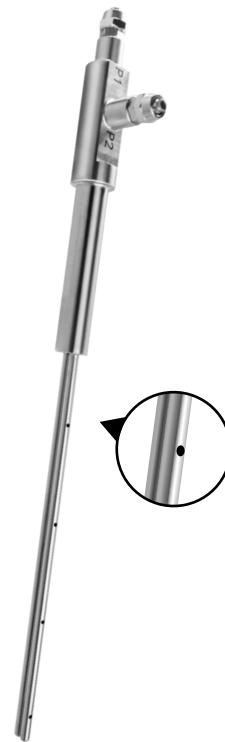
- Operating pressure: Max.10 bar, Operating temperature: Max. 250°C, Installation: Tube type
- Medium / Coefficient: Air / Flow coefficient (K): 1
- Material: Measuring tube: SUS316, connection screw: Copper or stainless steel(Optional), Connecting pipe length: 100 ... 1000 mm
- Stainless steel housing, high temperature resistant, corrosion resistance, dust resistance, can measure micro flow rates
- Applied in harsh environments, exhaust gas emission, environmental protection engineering, installation location is not restricted
- Can used with eYc industrial differential pressure transmitter PHD330 or PMD330 for air velocity measurement

PHD330

Industrial Differential Pressure Transmitter

**Air
velocity**

eYc PHD330
Industrial Grade Differential Pressure Transmitter



Match with
eYc AFMT Average Flow Measuring Tube (Pitot tube)

- Input: Piezoelectric differential pressure module
- Measuring range: $\pm 300 \dots \pm 10000$ pa
- Output: 4 ... 20 mA / 0 ... 10 V
- Accuracy: $\pm 2.0\%$ F.S.
- Silicon chips on differential pressure module of MEMS integration technology
- Low-pressure monitoring, high pressure resistance
- Square root function

eYc Measuring Specialist



eYc PMD330
Differential Pressure Transmitter(Indoor)



Match with
eYc AFMT Average Flow Measuring Tube (Pitot tube)

**Air
velocity**

PMD330

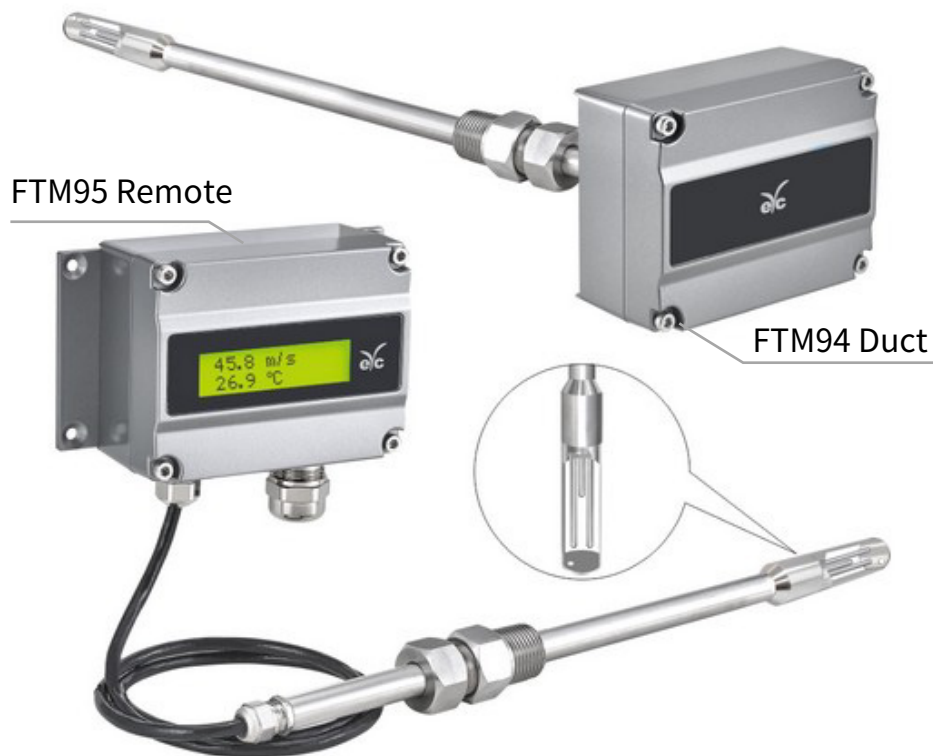
Differential Pressure Transmitter(Indoor)

- Input: Piezoelectric differential pressure module
- Measuring range: $\pm 50 \dots \pm 10000$ pa
- Output: 4 ... 20 mA / 0 ... 10 V
- Accuracy: $\pm 2.0\%$ F.S.
- RS-485 communication interface (Optional), Modbus RTU protocol
- Physical unit switch (User Interface: mbar / Pa / hPa / kPa / mmH₂O / mmWS / inH₂O / mmHg)
- Square root function

FTM94/95

Industrial High Accuracy Thermal Mass Flow Transmitter

Air velocity
Air Volume



- Input: Pt20 / Pt300(Air velocity)Pt1000(Temperature)
- Measuring range: 0 ... 120 Nm/s
- Output: 4 ... 20 mA / 0 ... 10 V / RS-485 / Impulse
- Accuracy: $\pm 1.5\%$ (Option $\pm 1\%$)
- IP67, rugged aluminum alloy case, the sensing probe, which is fully covered by metal, allows transmitter to be used in dusty and slightly corrosive environment
- Switchable physical quantities: [m/s] \cdot [ft/s] \cdot [Nm³/h] \cdot [Nm/s] \cdot [L/min] \cdot [m³/min]
- LCD Display of cumulative flow : m³, L (Option)

 Measuring Specialist



Air velocity
Air Volume

FTM06C-A

Thermal Mass Air Velocity and Air Volume Transmitter

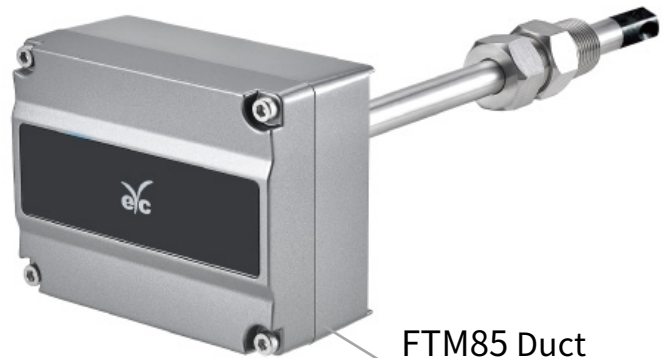
- Input: Pt20/Pt300 ((Air velocity) / Pt1000 (Temperature)
- Measuring range: 0 ... 5 m/s ~ 0 ... 60 m/s
- Output: 4 ... 20 mA & RS-485 / 0 ... 10 V & RS-485 / RS-485 & Impulse(1 ... 500 Hz)
- Accuracy: $\pm 1.5\%$ F.S. (Option $\pm 1\%$)
- Turndown ratio 500:1, high accuracy at measuring low flow rate.
- Display Instantaneous flow, the cumulative flow can be displayed in the software
- IP65, stainless steel casing, the sensing probe, which is fully covered by metal, allows transmitter to be used in dusty and slightly corrosive environment

FTM84/85

Industrial High Accuracy Thermal Air Velocity Transmitter

Air velocity
Air Volume

FTM84 Remote



FTM85 Duct



- Input: Thermal mass flow sensor
- Measuring range: 1 ... 90 m/s
- Output: 0 ... 20 mA / 4 ... 20 mA / 0 ... 1 V / 0 ... 5 V / 0 ... 10 V
- Accuracy: $\pm 1.5\%$ F.S.
- Linear calibration air velocity by computer, high-speed, high-accuracy measurement
- Switch multifunction physical quantities: [m/s] \ [ft/s] \ [km/h] \ [mph] \ [kont]
- LCD, display air velocity and temperature

Measuring Specialist



Air velocity
Air Volume

FTM06D

Thermal Mass Flow Transmitter

- Input: Resistance temperature detector (RTD)
- Measuring range: 0 ... 120 Nm/s
- Output: RS-485+4 ... 20 mA / RS-485+0... 10 V / RS-485+Impulse (1 ... 500 Hz)
- Accuracy: $\pm 1.5\%$ F.S.
- Built-in temperature compensation, accurate measurement. Using constant temperature anemometer (CTA) technology, good sensitivity
- Unit setting: [m/s] \ [ft/s] \ [Nm³/h] \ [L/min] \ [°C] \ [°F]
- IP67, strong stainless steel housing, for a variety of harsh environments

FTE120

OEM Air Velocity Transmitter

Air
velocity



- Input: RTD Thermal mass flow sensor
- Measuring range: 0.1 ... 30 m/s
- Output: 4 ... 20 mA / 0 ... 10 V / RS-485
- Accuracy: $\pm 2\%$ F.S.
- 0.1 ... 5 m/s, low wind speed measurement
- Compact size and light weight, can be installed fast and easily
- Polycarbonate housing, great electrical insulation and flame-retardant properties
- RS-485 programmable software : Data logger / Charts

Measuring Specialist



Air velocity

FTS34/35

Air Velocity Transmitter

- Input: Thermal mass flow sensor
- Measuring range: 2 ... 40 m/s
- Output: 4 ... 20 mA / DC 0 ... 10 V
- Accuracy: $\pm 2\%$ F.S.
- Option RS-485 Communication Interface, Modbus RTU protocol
- Programmable software : DATA LOGGER, record, and chart analysi
- Switch for physical quantity: [m/s] \ [ft/s] \ [km/h] \ [mph] \ [knot]

FTS140

Hot Wire Air Velocity Transmitter

**Air
velocity**



- Input: Hot wire mass flow transmitter
- Measuring range: 0 ... 20 m/s
- Output: 4 ... 20 mA / DC 0 ... 10 V
- Accuracy: $\pm 3\%$ F.S.(Nonlinear error, Hysteresis error, Repeatability error)
- IP54, linear adjustment function
- Switch analog output by dip switch. Offset function by button
- The housing and probe material are PC fire-proof



**Air
velocity**

FTS14

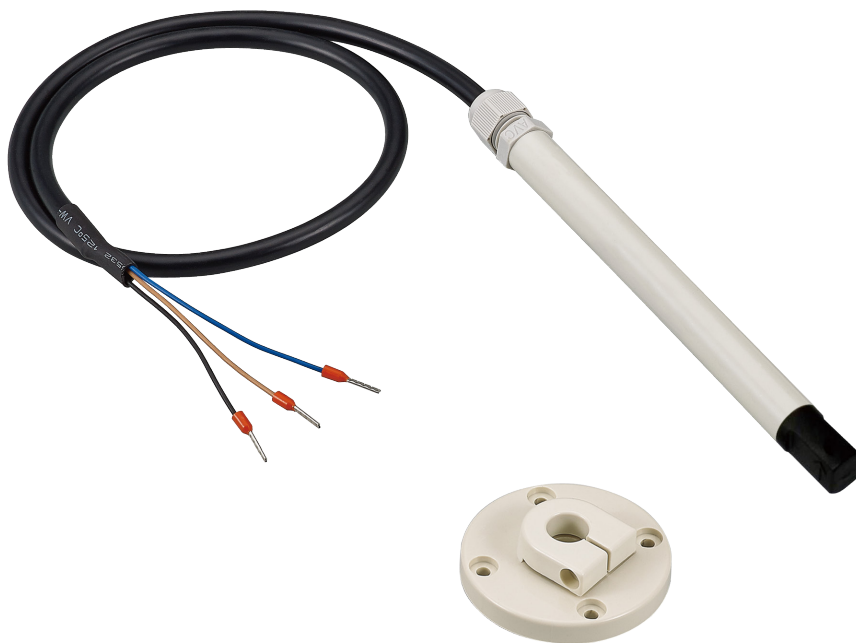
Thermal Air Velocity Transmitter

- Input: Thermal mass flow sensor
- Measuring range: 20 m/s
- Output: 4 ... 20 mA / DC 0 ... 10 V
- Accuracy (at 25°C): $\pm 5\%$ F.S. (Nonlinear error, Hysteresis error, Repeatability error)
- Temperature compensation, linear adjustment function
- Switch analogue output by dip switch
- Offset function by button

FTS07

Hot Wire Air Velocity Transmitter for Probe Type

**Air
velocity**



- Measuring range: 10 m/s ; 20 m/s
- Output: DC 0 ... 10 V
- Accuracy: $\pm 5\%$ F.S.
- Min. measuring range: 0.2 m/s
- High stability and repeatability
- An economical choice, high C/P ratio



Flow

FTC05

Hot Wire Thermal Flow Switch

- Input: Resistance Temperature Detector (RTD)
- Measuring range: Water 1 ... 200 cm/s; Oil 3 ... 300 cm/s; Gas 3 ... 20 m/s
- Output: PNP / NPN / Relay
- The flow switch is suitable for oil, water, gas and liquid level detection
- Can set the switch point or range
- Metal shell design, easy installation, measuring rod withstand pressure of 10 bar (length can be customized)
- LED light indicator, simple in design

$$F(\varphi) = f \times \sin\varphi = -2mv\omega\sin\varphi$$



Your Measuring Specialist Total Solution Provider

Product

Innovative design
High-performance R&D team
Core patent

Laboratory

ILAC / IEC17025
Professional calibration technique
High grade equipment

Production

International certification
Strict quality checks
Automatic production
Customization

Service

Great solution
Quick delivery
After-sales service

YUDEN-TECH CO.,LTD.

🌐 www.eyc-tech.com

☎ +886-2-8221-2958

✉ info@eyc-tech.com