



# Measuring Specialist

Enhance your capability with sensor technology

Air flow | Humidity | Dew point | Differential pressure

Temperature | Level | Air quality | Signal meter

**ISO 9001 & ISO/IEC 17025**



**HVAC**  
**Compressed air system**  
**Exhaust gas system**  
**Industrial process**

Find eyc-tech



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# About eyc-tech

A provider of sensors and measuring instruments from TAIWAN.

With professional R&D team, ISO-9001 certificated factory, calibration laboratory complying with ISO/IEC 17025 and decades of experience in the field, eyc-tech keeps bringing innovation to measurement technology.

We adhere to the core concept of "accuracy, quality and stability", and strive to provide our best sensors and services, so that customers can trust us and rely on us.

## Calibration laboratory (ISO/IEC 17025)



Air Velocity  
Humidity



Flow  
Dew Point



Temperature  
Pressure



## Applications



HVAC



Compressed air system



Exhaust gas system



Industrial process



# Why choose us?

## Profession :

Professional R&D team, ISO-9001 certificated factory and decades of experience in the field. Our professional teams have focused on product performance and each manufacturing process.

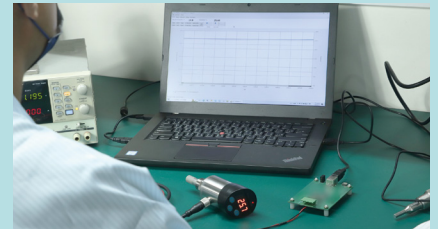
## Innovation :

Constantly challenge ourselves to develop innovative products that exceed customers' expectation.

## High quality :

Our calibration laboratory traced back to the international standards (ISO/IEC-17025). We follow these standards to evaluate sensor accuracy.

## Our manufacturing process



Sensor  
installation

Probe  
assembling

Key parts  
assembling

Calibration

Final  
assembling

Product  
Inspection

Packing

## Air volume standard calibration system



Air volume : 0.5 m<sup>3</sup>/h ... 1000 m<sup>3</sup>/h

Referring to ISO 9300 "Flow Measurement of Critical Flow Venturi Nozzles", this device is a standard flow device combination consisting of multiple venturi nozzles according to the maximum and minimum flow ranges that need to be calibrated.



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## Temperature and Humidity

THM80X



Features : High-end industrial model. Resistant to high temperature, high pressure and dust.  
Sensor type : Capacitive Humidity Sensor & Pt100 A class  
Measuring range : 0 ... 50°C, -40 ... +200°C / 0 ... 100%RH  
Output : 4 ... 20 mA / 0 ... 10 V / RS-485  
Accuracy :  $\pm 0.15^{\circ}\text{C}$  /  $\pm 2\%\text{RH}$   
Remark : IP65. Pressure resistance : 10 bar

**Featured**

- IP65 , rugged aluminum case. Adapt to various harsh environments.
- Process Temp. : up to 200°C. Probe pressure resistance : 10 bar.
- Capable of temperature compensation & linear adjustment by computer via RS-485.
- Work well after temporary condensation. Long term stability in high humidity environment.
- Switch physical quantities : [%RH] 、 [°C] 、 [mbar] 、 [g/kg] 、 [g/m³] 、 [kJ/kg]
- Enable setting of measuring range, analog output, station...etc via RS-485.

THM06



Features	Compact model for industrial application.
Sensor type	Capacitive Humidity Sensor & Pt100
Measuring range	-40 ... +180°C / 0 ... 100%RH
Output	4 ... 20 mA / 0 ... 10 V / RS-485
Accuracy	$\pm 0.15^{\circ}\text{C}$ / $\pm 2\%\text{RH}$
Remark	IP67. Pressure resistance : 16 bar

## Temperature and Humidity

THS30X



THM14EX



THR23



Features	Various installation method for light industry.	Features	Industrial model. Explosion proof.	Features	Suitable for HVAC. Simple appearance.
Sensor type	Capacitive Humidity Sensor & Pt100 A	Sensor type	Capacitive Humidity Sensor & Pt100	Sensor type	MEMS
Measuring range	0 ... +50°C, -40 ... +80°C / 0 ... 100%RH	Measuring range	-20 ... +80°C / 0 ... 100%RH	Measuring range	0 ... 50°C / 0 ... 100%RH
Output	4 ... 20 mA / 0 ... 10 V / RS-485	Output	4 ... 20 mA	Output	0 ... 10 V / 4 ... 20 mA / RS-485
Accuracy	$\pm 0.2^{\circ}\text{C}$ / $\pm 2\%\text{RH}$	Accuracy	$\pm 0.3^{\circ}\text{C}$ / $\pm 2\%\text{RH}$	Accuracy	$\pm 0.5^{\circ}\text{C}$ / $\pm 3\%\text{RH}$
IP rating	IP65	IP rating	IP66	IP rating	IP20

## Temperature and Humidity

THS130/140



THE120



THS17



Features	Economic model for HVAC application.	Features	Compact model for small-sized equipment.	Features	Probe type. Easy to install. Cost effective.
Sensor type	MEMS	Sensor type	Capacitive Humidity Sensor & Pt 100	Sensor type	MEMS
Measuring range	0 ... 50°C / 0 ... 100%RH	Measuring range	0 ... 100°C / 0 ... 100%RH	Measuring range	0 ... +50°C / 0 ... 100%RH
Output	4 ... 20 mA / 0 ... 10 V	Output	4 ... 20 mA / 0 ... 10 V / RS-485	Output	4 ... 20 mA / 0 ... 10 V / RS-485
Accuracy	$\pm 0.5^{\circ}\text{C}$ / $\pm 3\%\text{RH}$	Accuracy	$\pm 0.2^{\circ}\text{C}$ / $\pm 2\%\text{RH}$	Accuracy	$\pm 0.5^{\circ}\text{C}$ / $\pm 5\%\text{RH}$
IP rating	IP54	IP rating	IP65	IP rating	IP20(Sensor)/IP65(Metal body)/IP54(PVC body)

## Air flow / Air velocity

FTM94/95



Features : High-end industrial model. Resistant to high temperature, high pressure, dust, and corrosion.  
 Sensor type : Pt20 / Pt300 (Air velocity) / Pt1000 (Temp.)  
 Measuring range : 0 ... 120 Nm/s  
 Output : 4 ... 20 mA / 0 ... 10 V / RS-485  
 Accuracy :  $\pm 1.5\%$  F.S.  
 Remark : IP67. Probe : 0 ... 120°C, 16 bar.

**Featured**

- IP67 Rugged stainless steel case. Adapt to various harsh environments.
- Switch multifunction physical quantities (Air velocity and flow) : [m/s] 、 [ft/s] 、 [Nm<sup>3</sup>/h] 、 [Nm/s] 、 [L/min] 、 [m<sup>3</sup>/min]
- LCD Display of air velocity and temperature
- LCD Display of cumulative flow : m<sup>3</sup>, L (Option)

FTM84/85



Features	Industrial model for clean air.
Sensor type	Thermal mass flow sensor
Measuring range	0 ... 90 m/s
Output	4 ... 20 mA / 0 ... 10 V / RS-485
Accuracy	$\pm 1.5\%$ F.S.
Remark	IP65. Probe : -20 ... 100°C, 10 bar.

## Air flow / Air velocity

FTM06C-A



FTM06D



FDM06



Features	Compact model for industrial application. Anti dust.	Features	Designed for compressed dry air system.	Features	Bi-direction. Calculate density and flow rate
Sensor type	Pt20 / Pt300 (Air velocity) / Pt1000 (Temp.)	Sensor type	Thermal mass flow sensor	Sensor type	Pt100, Diff. pressure sensor, Pressure sensor
Measuring range	0 ... 60 m/s	Measuring range	0 ... 120 m/s	Measuring range	0 ... $\pm 40$ m/s, $\pm 150$ m/s (Coming soon)
Output	4 ... 20 mA / 0 ... 10 V / RS-485	Output	4 ... 20 mA / 0 ... 10 V / RS-485	Output	4 ... 20 mA / 0 ... 10 V / RS-485
Accuracy	$\pm 1.5\%$ F.S.	Accuracy	$\pm 1.5\%$ F.S.	Accuracy	$\pm 1.5\%$ F.S.
Remark	IP67. Probe : 0 ... 120°C, 16 bar.	Remark	IP65. Probe : 0 ... 50°C, 16 bar.	Remark	IP20. Probe : 0 ... 100°C

## Air flow / Air velocity

FTS34/35



FTE120



FTS07



Features	Suitable for light industry.	Features	Compact model for small-sized equipment.	Features	Probe type. Easy to install.
Sensor type	Thermal mass flow sensor	Sensor type	Thermal mass flow sensor	Sensor type	Hot wire mass flow transmitter
Measuring range	0 ... 40 m/s	Measuring range	0 ... 30 m/s	Measuring range	0 ... 20 m/s
Output	4 ... 20 mA / 0 ... 10 V / RS-485	Output	4 ... 20 mA / 0 ... 10 V / RS-485	Output	0 ... 10 V
Accuracy	$\pm 2\%$ F.S.	Accuracy	$\pm 2\%$ F.S.	Accuracy	$\pm 5\%$ F.S.
Remark	IP54. Probe : 0 ... 50°C	Remark	IP65. Probe : 0 ... 50°C	Remark	IP20. Probe : 0 ... 50°C



## Dew point transmitter

THS88MAX



Features : Suitable for compressed dry air system and industrial drying process.

Sensor type : Capacitive humidity sensor & Pt100

Operating range of dew point : -60 ... +60 dp°C

Output : 4 ... 20 mA / 0 ... 10 V / RS-485

Accuracy :  $\pm 1 \dots \pm 2$  dp°C

IP rating : IP65(Housing) / IP20(Filter)

**Featured**

- Dew point calibration. High accuracy. Analog and RS-485 output.
- Reduce insensitivity temperature zone. Quick response.
- Hysteresis compensation, resistance to moisture, extreme high and low humidity impact.
- EMC anti-interference, anti-condensation, low-temperature influence, long-term stability.
- Three thread (1/2"PT, 1/2"G, and 5/8"UNF) options for selection.

THM88MAX



Features	For industrial drying process. Integrated LED display.
Sensor type	Capacitive humidity sensor & Pt100
Operating range of dew point	-40 ... +60 dp°C
Output	RS-485+(4 ... 20 mA / 0 ... 10 V)
Accuracy	$\pm 1 \dots \pm 1.5$ dp°C
IP rating	IP65 (Housing) / IP20 (Filter)

## Air quality transmitter

GS43/44



THG03



GM33



Features	Suitable for HVAC. Various installation types.	Features	Multi measurement for HVAC application.	Features	Suitable for environment monitoring.
Sensor type	NDIR sensor	Sensor type	CO <sub>2</sub> NDIR sensor / Temp. & humidity MEMS sensor	Sensor type	Electrochemistry CO Sensor
Measuring range	2000 / 5000 / 10000 PPM	Measuring range	0 ... 2000 PPM / 0 ... 50°C / 0 ... 100%RH	Measuring range	0 ... 500 PPM
Output	4 ... 20 mA / 0 ... 10 V / RS-485	Output	4 ... 20 mA / 0 ... 10 V / RS-485	Output	0 ... 10 V / 4 ... 20 mA / RS-485
Accuracy	$\pm 40 \dots \pm 250$ PPM $\pm 3\%$ reading	Accuracy	$\pm 40$ PPM $\pm 3\%$ of reading / $\pm 0.5^\circ\text{C}$ / $\pm 5\%$ RH	Accuracy	$\pm 3\%$ F.S.
IP rating	IP54 (GS43) / IP64 (GS44)	IP rating	IP20	IP rating	IP65 (Body) / IP20 (Sensor)

## Signal display monitor

DPM02



DPM11







DPT02



Display readout	5 digits (-9.9.9.9 ... +9.9.9.9.9)	Display readout	4 digits (-1999 ... +9999)	Display readout	3 Digits (-199 ... +999)
Input	Current / Voltage	Input	Current / Voltage	Input	Current / Voltage
Output	Analog / Relay / RS-485	Output	Relay / RS-485	Output	Analog / Relay / RS-485
Accuracy	0.1%F.S. $\pm 1$ digital	Accuracy	0.1%F.S. $\pm 1$ digital	Accuracy	0.2%F.S. $\pm 1$ digital
IP rating	IP65 (Front panel)	IP rating	IP65 (Front panel)	IP rating	IP20

## Differential pressure

AFMT		PHD330		PHM330		PMD330	
				 <div>Featured</div>			
Features	Pitot tube for air velocity. Multi-point averaging.	Features	Industrial model. Wide measuring range.	Features	Industrial model. High pressure resistance.	Features	Suitable for HVAC and light industry.
Operating pressure	Max.10 bar	Sensor type	Piezoelectric module	Sensor type	Thermal mass flow sensor	Sensor type	Piezoelectric module
Operating temperature	Max.250°C	Measuring range	±50 ... ±10000 pa	Measuring range	±50 ... ±1500 pa	Measuring range	±50 ... ±10000 pa
Length	4" ... 40" (100 ... 1000 mm)	Output	4 ... 20 mA / 0 ... 10 V / RS-485	Output	4 ... 20 mA / 0 ... 10 V / RS-485	Output	4 ... 20 mA / 0 ... 10 V / RS-485
		Accuracy	±2.0% F.S.	Accuracy	±1.5% F.S. ±3% M.V.	Accuracy	±2.0% F.S.
		IP rating	IP65	IP rating	IP65	IP rating	IP65

## Signal meter

SD05		SP03		L051	
					
Features	Simple display. Connect to M12 or DIN 43650	Features	Analog convertor / 1 to 2 splitter.	Features	Submersible type water level measurement.
Display readout	4 Digits (-1999 ... +9999)	Input	4 ... 20 mA / 0 ... 10 V	Sensor type	Piezoresistive diaphragm
Input	4 ... 20 mA (2-wire) / 0 ... 10 V (3-wire)	Output(Isol.GND)	4 ... 20 mA / 0 ... 10 V	Measuring range	0 ... 10 bar
Accuracy	0.2% F.S.	Accuracy	±0.1% F.S.	Output	4 ... 20 mA
IP rating	IP65	IP rating	IP54	Accuracy	±0.5% F.S.
				IP rating	IP68

## Temperature transmitter

TP01		TP02		TP04	
					
Features	Cost effective. ZERO / SPAN adjustment.	Features	Compact size. Easy to install. Cost effective.	Features	Integrated PT100Q and temperature transmitter.
Sensor type	RTD Pt100 (3-wire)	Sensor type	RTD Pt100 (3-wire)	Sensor type	RTD Pt100
Measuring range	-50 ... 400°C	Measuring range	-50 ... 200°C	Measuring range	-50 ... 200°C
Output	4 ... 20 mA (2-wire)	Output	4 ... 20 mA (2-wire)	Output	4 ... 20 mA (2-wire)
Accuracy	±0.1% F.S.	Accuracy	±0.1% F.S.	Accuracy	±0.5% F.S.
IP rating	IP30 (Housing) / IP10 (Terminal)	IP rating	IP30 (Housing) / IP10 (Terminal)	IP rating	IP65



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Temperature | Level | Air quality | Signal meter



## HVAC

## Compressed air system

## Exhaust gas system

## Industrial process

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