eyc-tech

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

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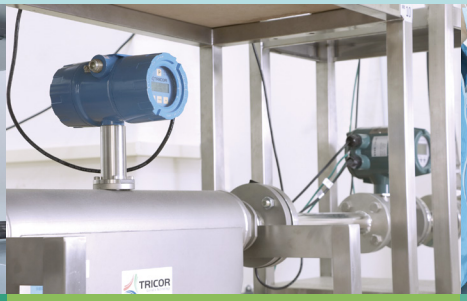
About eyc-tech

A provider of sensors and measuring instruments from TAIWAN.

With a professional R&D team, an ISO-9001 certified factory, and calibration laboratories compliant with ISO/IEC 17025, eyc-tech continues to bring innovation to measurement technology.

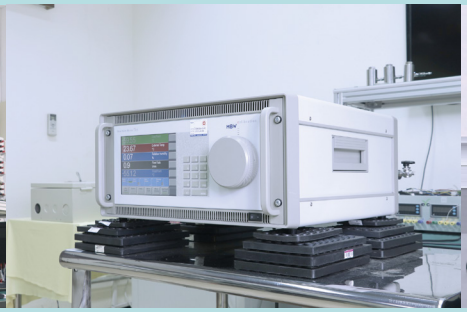
We adhere to the core concept of "accuracy, quality, and stability" and strive to provide our best sensors and services, earning the trust and reliance of our customers.

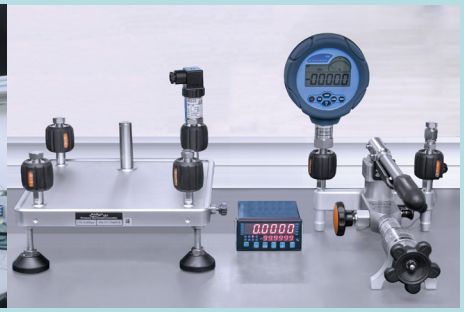
Calibration laboratory (ISO/IEC 17025)



Air Velocity | **Flow** | **Temperature**

Humidity | **Dew Point** | **Pressure**





Applications

HVAC

Compressed air system

Exhaust gas system

Industrial process

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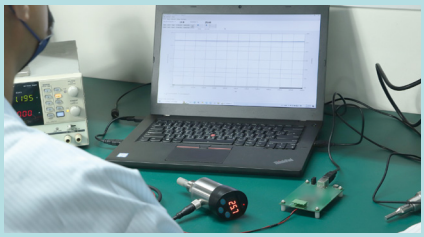
Why choose us?

Profession :
Professional R&D team, ISO-9001-certified factory, and decades of experience in the field. Our professional teams focus on product performance and each manufacturing process.
Innovation :
We constantly challenge ourselves to develop innovative products that exceed customers' expectations.
High quality :
Our calibration laboratory traced back to the international standards (ISO/IEC-17025). We follow these standards to evaluate sensor accuracy.

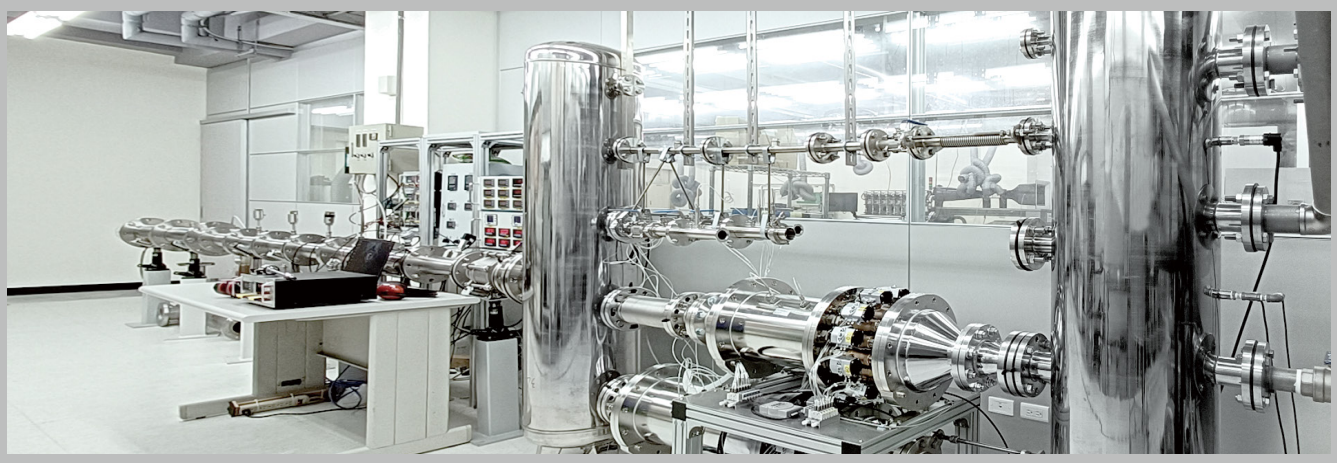
Our manufacturing process





Sensor installation → Probe assembling → Key parts assembling → Calibration → Final assembling → Product Inspection → Packing

Air volume standard calibration system



Air volume：0.5 m^3/h ... 1000 m^3/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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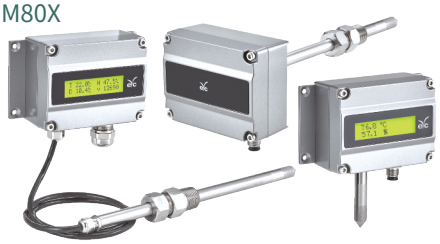
Measuring Specialist Enhance your capability with sensor technology

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 : ±0.15°C / ±1.2%RH
Remark : IP65. Pressure resistance : 10 bar

Featured

- IP65, aluminum alloy casing for harsh environments.
- Process Temp. : up to 200°C. Probe pressure resitance : 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.
- Units switchable : [%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	±0.15°C / ±2%RH
Remark	IP67. Pressure resistance : 16 bar

Temperature and Humidity

Picture	THS30X	THM14EX	THR23
		 Explosion proof	
Features	Various installation method for light industry	Industrial model. Explosion proof	Suitable for HVAC. Simple appearance
Sensor type	Capacitive Humidity Sensor & Pt100 A	Capacitive Humidity Sensor & Pt100	MEMS
Measuring range	0 ... +50°C, -40 ... +80°C / 0 ... 100%RH	-20 ... +80°C / 0 ... 100%RH	0 ... 50°C / 0 ... 100%RH
Output	4 ... 20 mA / 0 ... 10 V / RS-485	4 ... 20 mA	0 ... 10 V / 4 ... 20 mA / RS-485
Accuracy	±0.2°C / ±1.8%RH	±0.3°C / ±2%RH	±0.5°C / ±3%RH
IP rating	IP65	IP66	IP20

Temperature and Humidity

Picture	THS130/140	THE120	THS17
			
Features	Economic model for HVAC application	Compact model for small-sized equipment	Probe type. Easy to install. Cost effective
Sensor type	MEMS	Capacitive Humidity Sensor & Pt 100	MEMS
Measuring range	0 ... 50°C / 0 ... 100%RH	0 ... 100°C / 0 ... 100%RH	0 ... +50°C / 0 ... 100%RH
Output	4 ... 20 mA / 0 ... 10 V	4 ... 20 mA / 0 ... 10 V / RS-485	4 ... 20 mA / 0 ... 10 V / RS-485
Accuracy	±0.5°C / ±3%RH	±0.2°C / ±2%RH	±0.5°C / ±3.0%RH
IP rating	IP54	IP65	IP24 (Sensor) / IP 65 (Body)

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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 : ±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] 、[Nm³/h] 、[Nm/s] 、[L/min] 、[m³/min]
- LCD Display of air velocity and temperature
- LCD Display of cumulative flow : m³, 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	±1.5% F.S.
Remark	IP65. Probe : -20 ... 100°C, 10 bar.

Air flow / Air velocity

Picture	FTE120-I	FTM06D-I	FTM06D	FDM06
				
Features	Designed for pneumatic system	Designed for compressed dry air system	Designed for clean air system	Bi-direction. Calculate density and flow rate
Sensor type	Thermal mass flow sensor	Thermal mass flow sensor	Thermal mass flow sensor	Diff. pressure sensor
Measuring range	0 ... 1500 l/min	0.1 ... 848 m³/h	0 ... 120 m/s	± (0.8 ... 40 m/s) / ± (10 ... 200 m/s)
Output	Analog / RS-485 / Frequency / Pulse	Analog / RS-485 / Frequency / Pulse	Analog / RS-485 / Frequency / Pulse	Analog / RS-485 / Frequency / Pulse
Accuracy	±2% F.S.	±1.5% F.S.	±1.5% F.S.	±1.5% F.S.
Remark	IP65. G thread, 10 bar, DN10~25	IP65. G thread, 16 bar, DN15~50	IP65. Probe : 0 ... 50°C, 16 bar.	IP20. Probe : 0 ... 100°C

Air flow / Air velocity

Picture	FTE120	FTS07	FTS140	FTS34/35
				
Features	Compact model for small-sized equipment	Probe type. Easy to install	Economic model for HVAC application	Suitable for light industry
Sensor type	Thermal mass flow sensor	Hot wire mass flow transmitter	Hot wire mass flow transmitter	Thermal mass flow sensor
Measuring range	0 ... 30 m/s	0 ... 20 m/s	0 ... 20 m/s	0 ... 40 m/s
Output	4 ... 20 mA / 0 ... 10 V / RS-485	0 ... 10 V	4 ... 20 mA / 0 ... 10 V	4 ... 20 mA / 0 ... 10 V / RS-485
Accuracy	±2% F.S.	±5% F.S.	±3% F.S.	±2% F.S.
Remark	IP65. Probe : 0 ... 50°C	IP20. Probe : 0 ... 50°C	IP54. Probe : 0 ... 50°C	IP54. Probe : 0 ... 50°C

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Dew point transmitter

THS88MAX

Features : Suitable for compressed dry air system and industrial drying system.
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 : ±1 ... ±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, moisture and extreme humidity resistance.
- 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	4 ... 20 mA / 0 ... 10 V / RS-485
Accuracy	±1 ... ±1.5 dp°C
IP rating	IP65(Housing) / IP20(Filter)

Signal display monitor

Picture	DPM11	DPM02	DPM03	DPM04
				
Features	Cost-effective design	Simplicity and ease of use	Multiple functions	Accurate Totalization
Display readout	4 digits (-1999 ... +9999)	5 digits(-9.9.9.9 ... +9.9.9.9.9)	5 digits	Instantaneous flow : 5 digits Cumulative flow : 8 digits
Input	Current / Voltage	Current / Voltage	Current / Voltage	Current / Voltage / Frequency / Pulse
Output	Relay / RS-485	Analog / Relay / RS-485	Analog / Relay / RS-485	Current / Voltage / Relay / RS-485
Accuracy	±0.1% F.S.±1 digital	±0.1% F.S.±1 digital	±0.1% F.S. ±1 digit	±0.1% F.S. ±1 digit
IP rating	IP65(Front panel)	IP65(Front panel)	IP65(Front panel)	IP65(Front panel)

Signal display monitor

Picture	DPT02	SD05	SP03
			
Features	DIN - rail mounting Retransmission functions	Simple display Connect to M12 or DIN 43650	Signal converter/splitter
Display readout	3 Digits(-199 ... +999)	4 Digits(-1999 ... +9999)	No display
Input	Current / Voltage	Current / Voltage	4 ... 20 mA / 0 ... 10 V
Output	Analog / Relay / RS-485	Current / Voltage	4 ... 20 mA / 0 ... 10 V
Accuracy	±0.2% F.S.±1 digital	±0.2% F.S.	±0.1% F.S.
IP rating	IP20	IP65	IP54

Level

L051

Features	Submersible type water level measurement
Sensor type	Piezoresistive diaphragm
Measring range	0 ... 10 bar
Output	4 ... 20 mA
Accuracy	±0.5% F.S.
IP rating	IP68

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Differential pressure

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

Air quality

	GS43/44	THG03	GM33	GS23
Picture				
Features	Suitable for HVAC. Various installation types	Multi measurement for HVAC application	Suitable for environment monitoring	Suitable for environment monitoring
Sensor type	NDIR sensor	CO_2 NDIR sensor / Temp. & humidity MEMS sensor	Electrochemistry CO Sensor	NDIR sensor
Measuring range	2000 / 5000 / 10000 PPM	0 ... 2000 PPM / 0 ... 50°C / 0 ... 100%RH	0 ... 500 PPM	0 ... 2000 PPM
Output	4 ... 20 mA + RS-485	4 ... 20 mA / 0 ... 10 V / RS-485	4 ... 20 mA + RS-485	0 ... 10 V / 4 ... 20 mA / RS-485
Accuracy	±40 ... ±250 PPM ±3% reading	±40 PPM±3% of reading / ±0.5°C / ±3%RH	±3% F.S.	±40 PPM±3% of reading
IP rating	IP54(GS43) / IP64(GS44)	IP20	IP65(Body) / IP20(Sensor)	IP20

Temperature

	TP01	TP02	TP04
Picture			
Features	Cost effective. ZERO / SPAN adjustment	Compact size. Easy to install. Cost effective	Integrated PT100Ω and temperature transmitter
Sensor type	RTD Pt100(3-wire)	RTD Pt100(3-wire)	RTD Pt100
Measring range	-50 ... 400°C	-50 ... 200°C	-50 ... 200°C
Output	4 ... 20 mA (2-wire)	4 ... 20 mA (2-wire)	4 ... 20 mA (2-wire)
Accuracy	±0.1% F.S.	±0.1% F.S.	±0.5% F.S.
IP rating	IP30(Housing) / IP10(Terminal)	IP30(Housing) / IP10(Terminal)	IP65

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ISO 9001 :2015

ilac-MRA

TAF Calibration Laboratory 3032

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