

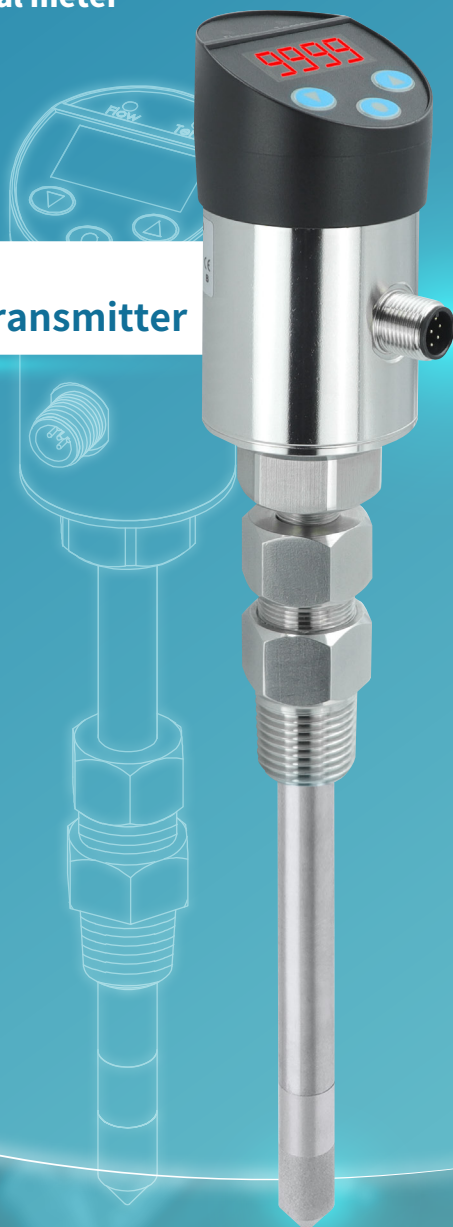


# Measuring Specialist

Enhance your capability with sensor technology

Air flow | Humidity | Dew point | Differential pressure  
Temperature | Level | Air quality | Signal meter  
ISO 9001 & ISO/IEC 17025

**Industrial  
Temp. & Humidity Transmitter**



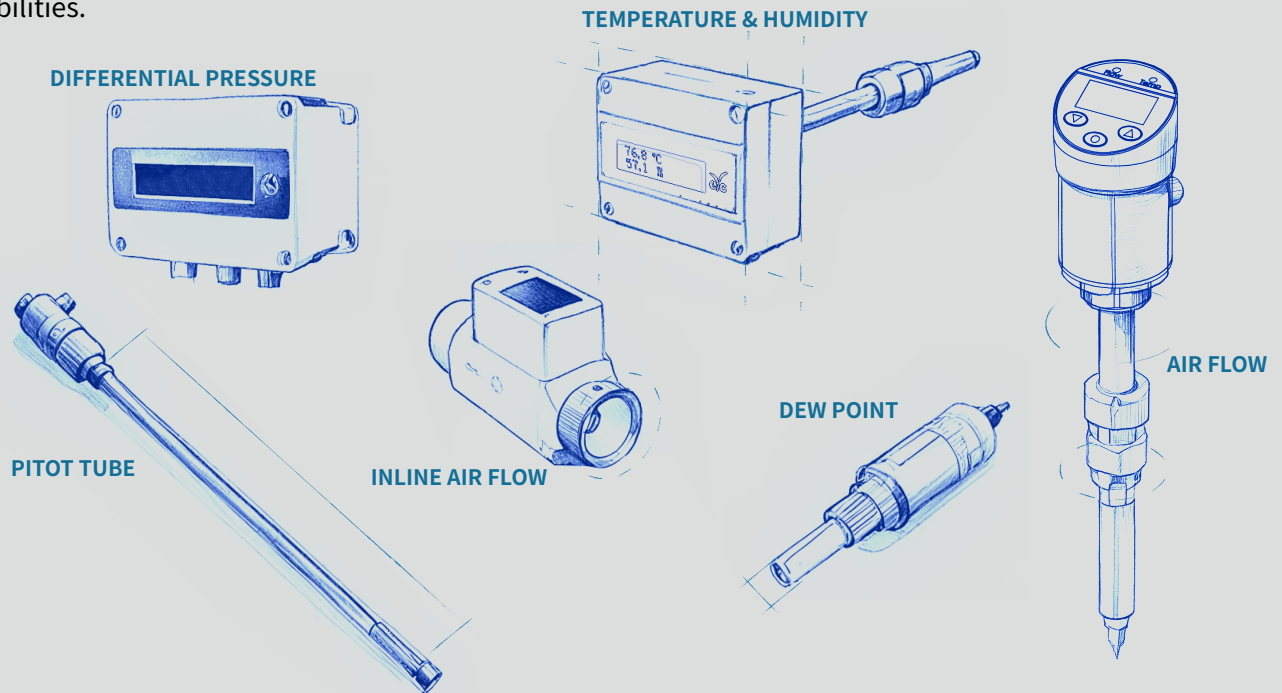
**Venturi Type  
Air Flow Transmitter**



**Environmental Monitoring  
Process Control**

# ABOUT US

In 2009, eyc-tech was established, focusing on developing innovative measurement technology to meet modern technological demands. The company provides versatile measurement solutions designed to meet diverse industry demands, ensuring precise monitoring. With over 15 years of expertise, eyc-tech continues to drive innovation and support sustainable development through advanced measurement capabilities.



# MEASURING SPECIALIST

With a professional R&D team, a certified factory, and an accredited calibration laboratory, eyc-tech delivers precision and reliability in sensor and measurement technology. Backed by decades of experience, we specialize in solutions for airflow, temperature and humidity, dew point, liquid flow, and differential pressure measurement. eyc-tech products serve two primary applications: Environment monitoring and process Control, ensuring accurate and dependable performance for critical industries.

Possibilities grow from connecting  
environment and measurement.

Environment

**ec**  
eyc-tech

Control



# MILESTONES

## 2009 : Brand Establishment

Launched eyc-tech and achieved ISO-9001 certification, marking the start of consistent and reliable product offerings.

## 2013 : TAF-Certified Laboratories

Established calibration laboratories certified by TAF in compliance with ISO/IEC 17025, specializing in temperature, humidity, dew point, wind speed, flow, and pressure calibration.

## 2016 : Patent Innovations

Secured multiple patents, driving advancements in sensor design and R&D for enhanced product differentiation.

## 2019 - Now : Air Flow Transmitter Development

Introduced insertion and inline type airflow transmitters, providing reliable solutions for various industrial and environmental applications.

# CERTIFICATION

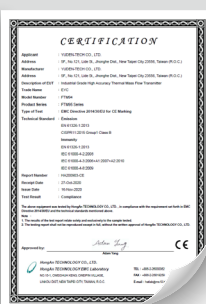
To ensure product reliability, we have established a TAF-certified calibration laboratory in compliance with ISO/IEC 17025. These standards guarantee precise sensor accuracy and ensure our products meet the highest industry requirements.



Ensures stable product and service quality.



Confirms compliance with international safety and performance standards.



# CALIBRATION LAB

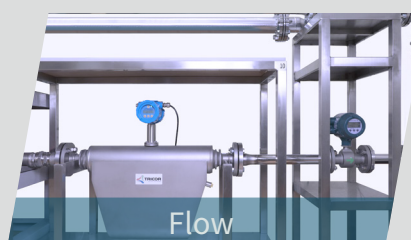
eyc-tech operates a TAF-certified calibration laboratory compliant with ISO/IEC 17025 standards. This ensures precise calibration services that are traceable to SI units and meet internationally recognized standards.



Certified Precision and Calibration Excellence.



Our TAF-certified laboratory offers calibration services for temperature, humidity, dew point, air velocity, flow, and pressure, ensuring compliance with ISO/IEC 17025. By adhering to international standards, we guarantee the accuracy and reliability of eyc-tech products, exceeding customer expectations.





# FACTORY

We continuously enhance our production quality and manufacturing capabilities. Since achieving ISO-9001 quality management system certification in our founding year, we have adopted advanced inspection equipment and international-standard manufacturing processes. Committed to excellence, we strive for improvement in every detail of our production.



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

# MANUFACTURING



Wind Tunnel Test



Air Flow Calibration



Laser Doppler



Welding Assembly



Humidity Calibration



Accuracy Check

# PROCESS CONTROL

## Compressed Air System

Transmitters monitor airflow and dew point in compressed air systems, ensuring efficient, dry air. Accurate measurements maintain performance and prevent moisture, protecting equipment and optimizing operations.

## Exhaust Air Treatment

Airflow transmitters are crucial for monitoring industrial exhaust, accurately measuring emissions and supporting carbon reduction efforts. Precise control ensures compliance with environmental regulations and advances sustainability goals.

A large industrial facility with complex piping, valves, and machinery. The image is split into two parts: the left side shows an outdoor area with green-painted pipes and valves, while the right side shows a close-up of large, silver-colored industrial pipes. The word "APPLIC" is overlaid in large white letters across the center of the image.

# APPLIC



# ENVIRONMENTAL MONITORING

## HVAC

HVAC systems regulate temperature, humidity, air circulation, and cleanliness in buildings. The installed sensors accurately measure indoor conditions, optimizing equipment performance.

## Cleanroom

A cleanroom controls tiny particles in the air, essential for industries like pharmaceuticals and semiconductor manufacturing. Temperature, humidity, airflow, and differential pressure sensors are critical for maintaining optimal conditions, and ensuring cleanliness.

## Data Center

Servers in data centers generate a significant amount of heat during operation, with processors and other electronic components producing substantial thermal energy. To avoid equipment damage caused by high temperatures, server cooling relies on air conditioning systems to provide effective ventilation and cooling.



# COMPRESSED AIR SYSTEMS

Optimized Monitoring for Energy Efficiency



Compressed air systems are essential in industrial applications, but their high energy consumption poses significant challenges. To support global initiatives on energy conservation and sustainable development, advanced technologies focusing on energy-saving and efficiency improvements have been introduced to minimize energy waste.

The efficiency of compressed air systems relies on advanced measurement technologies. By utilizing air flow, dew point, and pressure transmitters, precise control and monitoring are ensured for wet air, dry air, and small pipelines. These innovations enhance reliability and operational efficiency, delivering stable and efficient support for industrial production.

## Air Flow Transmitter



FDM08

Wet Air



FDM06-I

Cumulative Flow



FTM06D-I

Large Airflow



FTM06D

Insertion Type



FTE120-I

Small Pipe Size

## Dew Point Transmitter



THS88MAX

Air Dryness

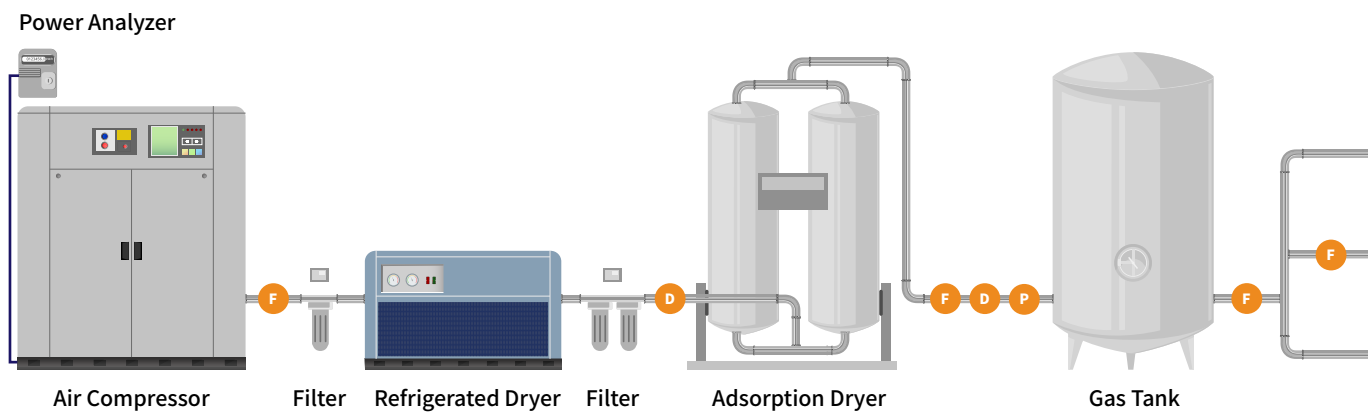
## Pressure Transmitter



P048

Versatile All-rounder

F Air flow D Dew point P Pressure





# INDUSTRIAL EXHAUST TREATMENT

Manage Emission, Sustainable Future



Industrial processes release pollutants like VOCs, posing risks to the environment and public health. Advanced exhaust air monitoring plays a vital role in reducing emissions and ensuring sustainable operations. Accurate measurement of air flow is essential for optimizing exhaust air treatment and maintaining system efficiency.

eyc-tech specializes in high-precision air flow measurement, providing reliable data to support the optimization of exhaust air systems. Our solutions help improve treatment efficiency, reduce energy consumption, and ensure compliance with environmental standards, empowering industries to achieve both environmental and operational goals.



## Differential Pressure Transmitter



PHM330

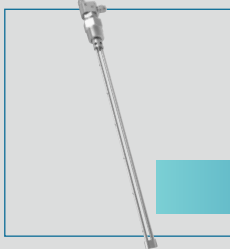
Air Flow Conversion



PMM330

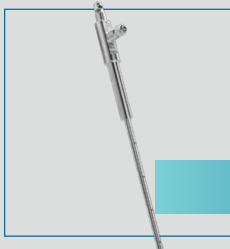
Compact Option

## Average Flow Measuring Tube



AFMP

Multi-Point



AFMT

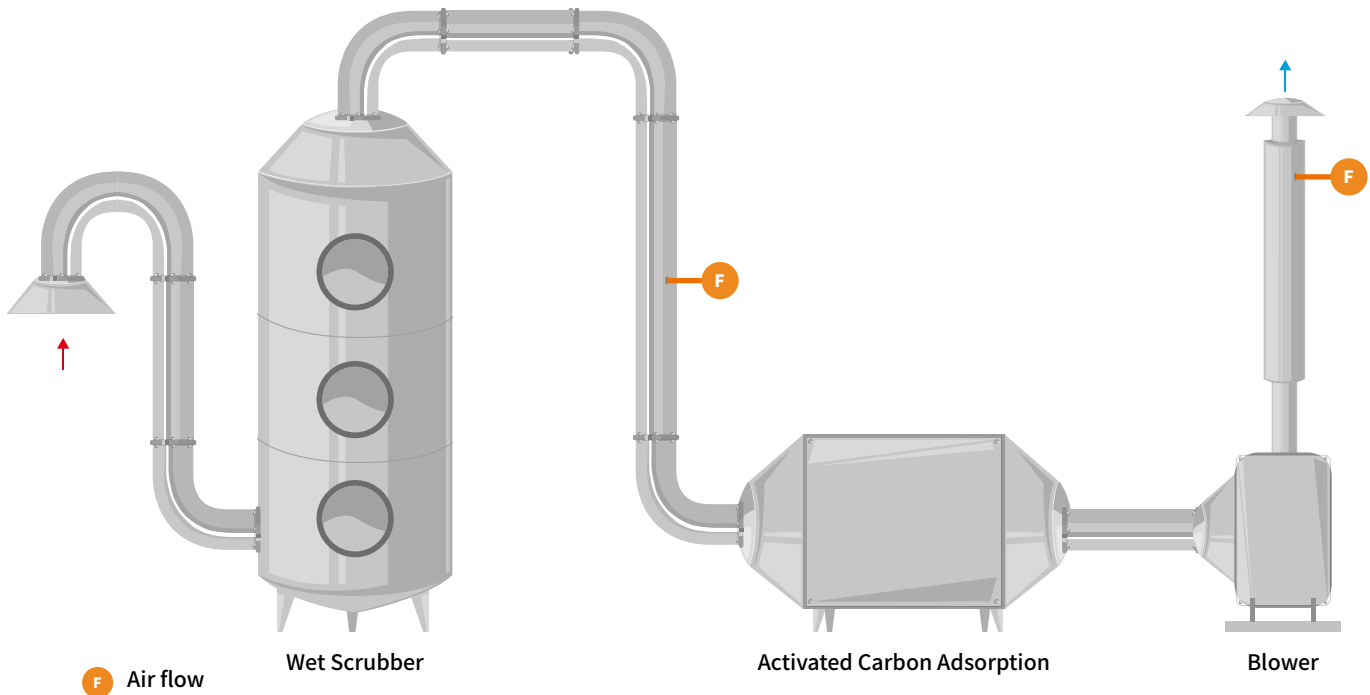
Multi-Point

## Air Flow Transmitter



FTM94/95

Anti-Dust





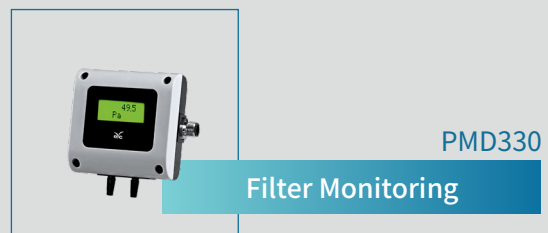
HVAC (Heating, Ventilation, and Air Conditioning) systems are essential for regulating indoor air temperature, humidity, air flow, and overall air quality, ensuring a comfortable and healthy indoor environment. These systems manage the exchange of indoor and outdoor air while maintaining proper circulation, thermal energy consistency, and humidity levels. Heating provides optimal thermal comfort, ventilation ensures fresh and clean air circulation, and air conditioning regulates temperature and humidity to create ideal indoor conditions.

Accurate measurement is critical to the efficiency and reliability of HVAC systems. eyc-tech provides comprehensive sensor solutions, including temperature and humidity, airflow, differential pressure, and carbon dioxide (CO<sub>2</sub>) monitoring. These measurements enable precise control of HVAC operations, optimizing energy use, enhancing system stability, and ensuring healthier indoor environments for residential, commercial, and industrial applications.

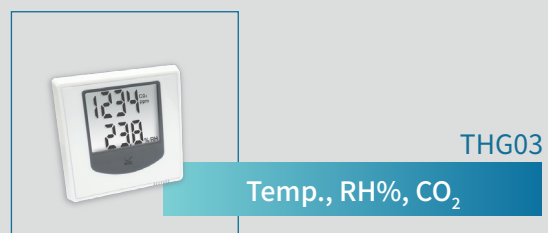
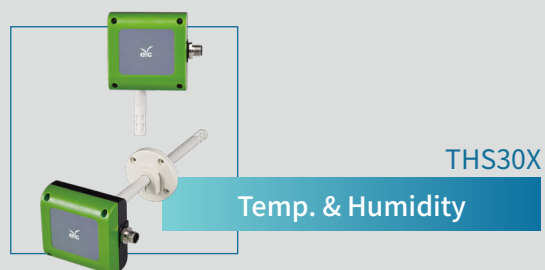
## Air Flow Transmitter



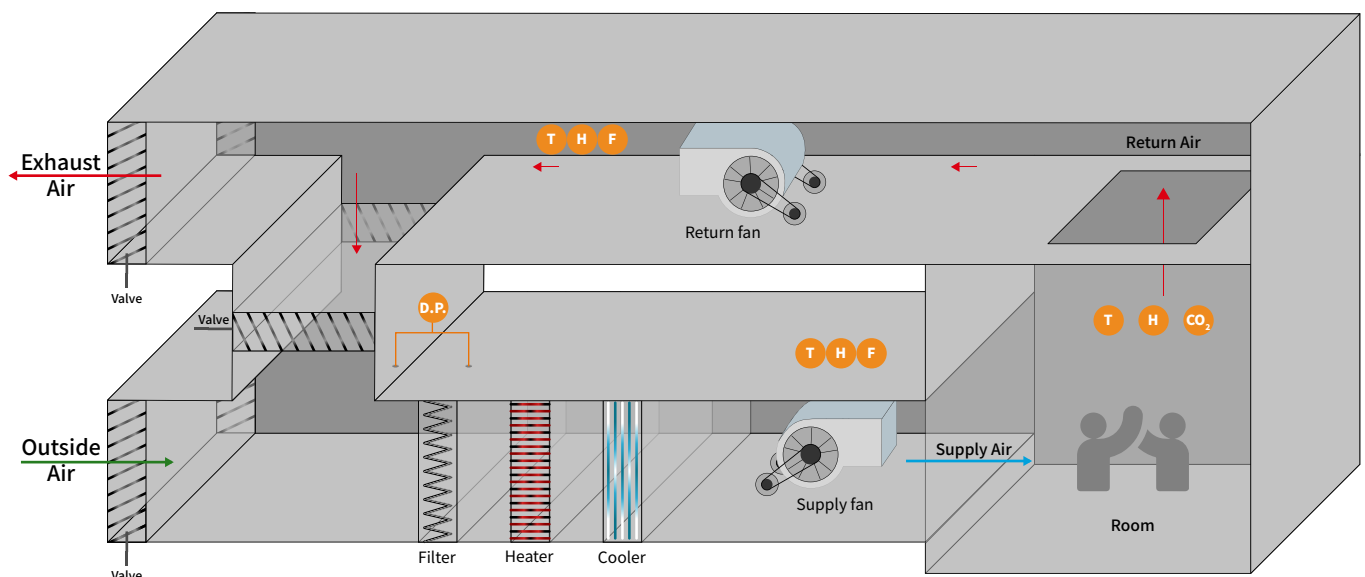
## Differential Pressure Transmitter



## Environmental Monitoring



T Temp.   
 H Humidity   
 F Air flow   
 CO<sub>2</sub> Air quality   
 D.P. Diff. pressure



# CLEANROOM

Precise Environmental Monitoring

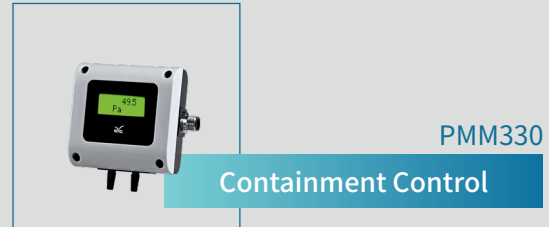
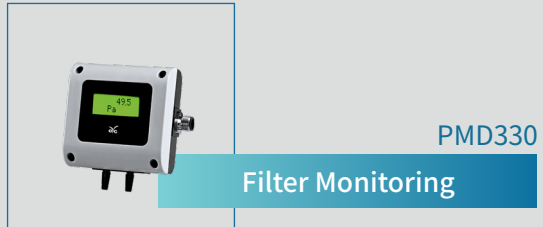


A cleanroom is a controlled environment designed to maintain low levels of airborne particles and microorganisms. Commonly used in industries requiring exceptional cleanliness, such as pharmaceuticals, semiconductor manufacturing, and biological research, cleanrooms rely on strict air quality control to ensure contamination-free operations. Maintaining the proper air pressure differential between the interior and exterior is essential for preserving a clean environment.

eyc-tech provides high-precision transmitters for cleanroom environments, offering accurate measurements of key parameters such as airflow, differential pressure, temperature, and humidity. These solutions ensure optimal cleanliness, support reliable manufacturing processes, and safeguard product quality. eyc-tech's transmitters are indispensable tools for monitoring and maintaining cleanroom standards with precision.



## ■ Diff. Pressure Transmitter



## ■ Temp. & Humidity Transmitter



## ■ Air Flow Transmitter

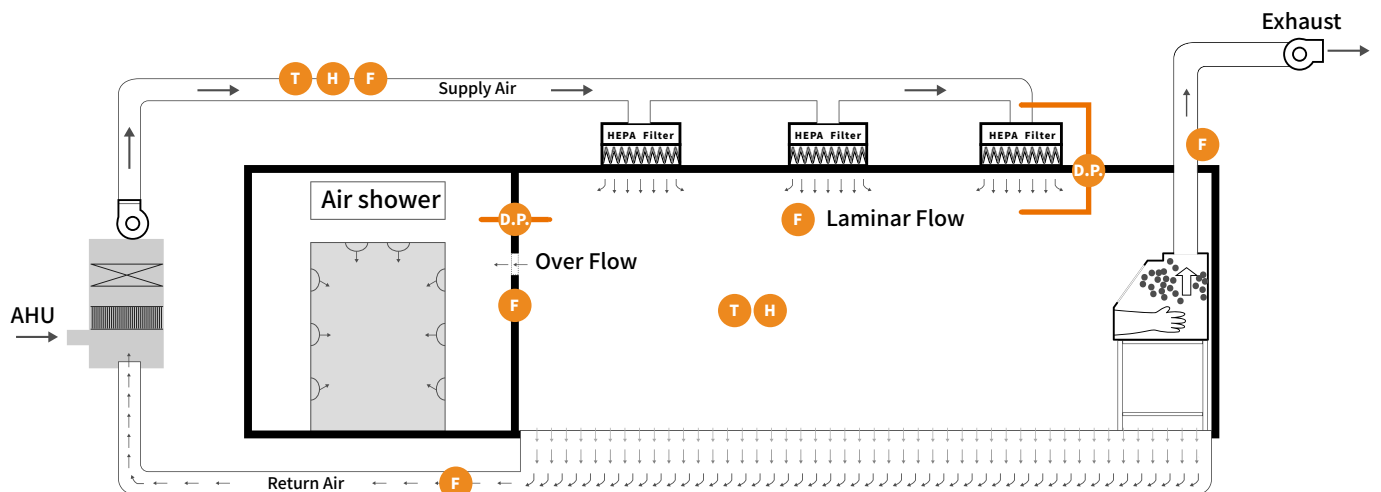


**F** Air flow

**D.P.** Diff. pressure

**T** Temp.

**H** Humidity



# DATA CENTER

## Cooling System Monitoring Solution



Servers in data centers generate significant heat during operation, with processors and other components producing substantial thermal energy. To prevent equipment damage caused by high temperatures, efficient cooling systems rely on precise monitoring of critical parameters such as air flow, temperature, and humidity. These measurements ensure optimal ventilation and cooling, maintaining stable operating conditions and protecting equipment.

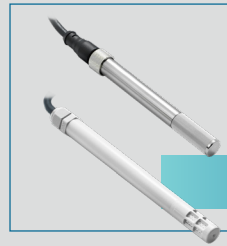
eyc-tech provides high-precision transmitters for temperature, humidity, air flow, and differential pressure monitoring, enabling data centers to dynamically adjust cooling systems in response to server workload fluctuations. These solutions enhance energy efficiency, improve system reliability, and reduce operational costs, ensuring a sustainable and effective cooling strategy.

## Temp. & Humidity Transmitter



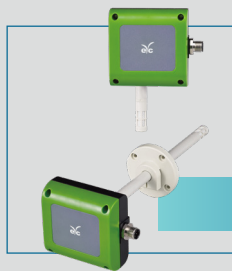
THM801

Exceptional Accuracy



THS17

Local Monitoring



THS301/THS302

Climate Stability

## Air Flow Transmitter



FTS34/35

Air Flow Management

## Diff. Pressure Transmitter



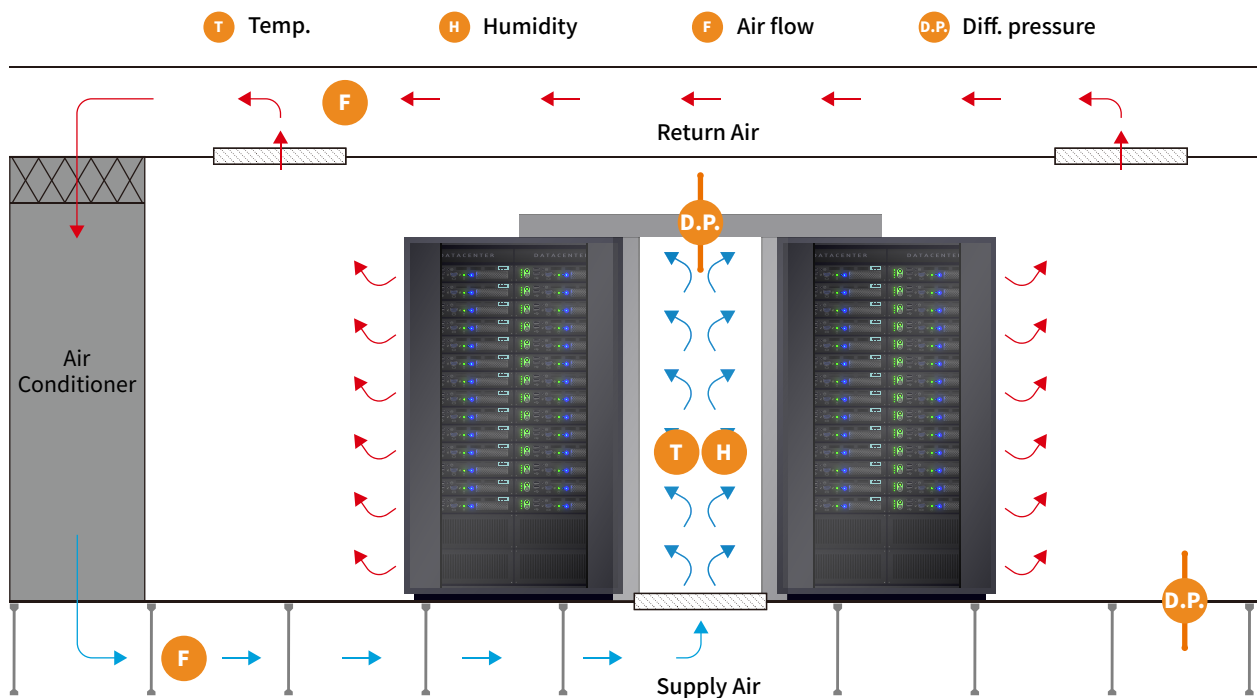
PMD330

Filter Monitoring



PMM330

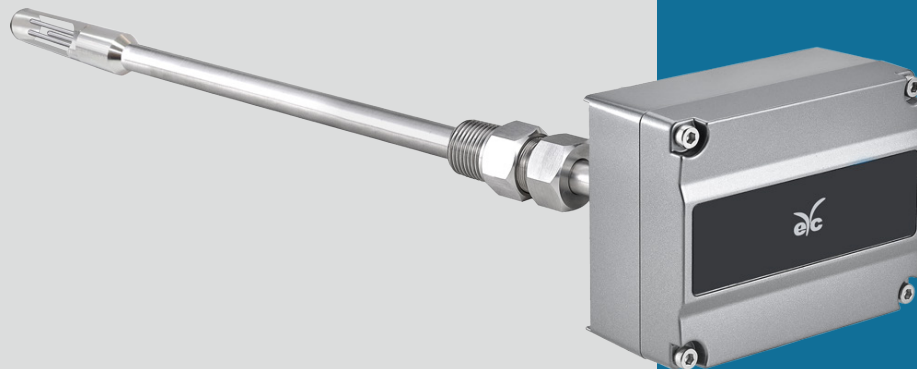
Containment Control



# AIR FLOW

FTM94/95

Industrial Thermal Mass Flow Transmitter



Designed for  
Industrial application

Quickly Response

Temperature Compensation

Suitable for Slightly Corrosive Air



Measuring range  
0 ... 120 m/s



Accuracy  
 $\pm 1.5\%$  F.S. (Option  $\pm 1\%$ )



Reaction time  
 $t_{90} < 5$  sec



Signal output  
Analog & RS-485



Display type  
LCD Module



Resistant to

High temperature  
High pressure  
Dust and Corrosion



# AIR FLOW

FDM06-I

Venturi Thermal Mass Flow Meter



Designed for  
Compressed air system



Measuring range  
0 ... 500 m<sup>3</sup>/h



Accuracy  
±1.5% F.S.



Reaction time  
 $t_{90} \leq 6$  sec



Signal output  
Analog & RS-485



Display type  
LCD Module

Multiple Pipe Diameters

DN15  
DN25  
DN40  
DN50

High Accuracy





Low Pressure Loss

Compressed Air Monitoring

Cumulative Flow Reading



# AIR FLOW

	FTM94/95	FTM84/85	FDM06S	FTM06D
Picture				
Sensor type	Pt20, Pt300, Pt1000	Thermal mass flow sensor	Differential pressure sensor	Thermal mass flow sensor
Range	0 ... 120 m/s	0 ... 90 m/s	$\pm 0.8 \dots 40$ m/s, $\pm 20 \dots 200$ m/s	0 ... 120 m/s
Output	Analog, RS-485	Analog, RS-485	Analog, RS-485, Pulse	Analog, RS-485, Pulse
Accuracy	$\pm 1.5\%$ F.S.	$\pm 1.5\%$ F.S.	$\pm 1.5\%$ F.S.	$\pm 1.5\%$ F.S.
Remark	IP67, Probe 0 ... 120°C, 16 bar	IP65, Probe -20 ... 100°C, 10 bar	IP20, Probe 0 ... 100°C, 10 bar	IP65, Probe 0 ... 50°C, 16 bar

	FTE120	FTS140	FTS34/35	FDM06
Picture				
Sensor type	Thermal mass flow sensor	Hot-wire sensor	Thermal mass flow sensor	Hot-wire sensor
Range	0 ... 30 m/s	0 ... 20 m/s	0 ... 40 m/s	0.1 ... 10 m/s
Output	Analog, RS-485	Analog	Analog, RS-485	Analog, Relay, RS-485
Accuracy	$\pm 2\%$ F.S.	$\pm 3\%$ F.S.	$\pm 2\%$ F.S.	$\pm 1\%$ F.S.
Remark	IP65, Probe 0 ... 50°C	IP54, Probe 0 ... 50°C	IP54, Probe 0 ... 50°C	IP65

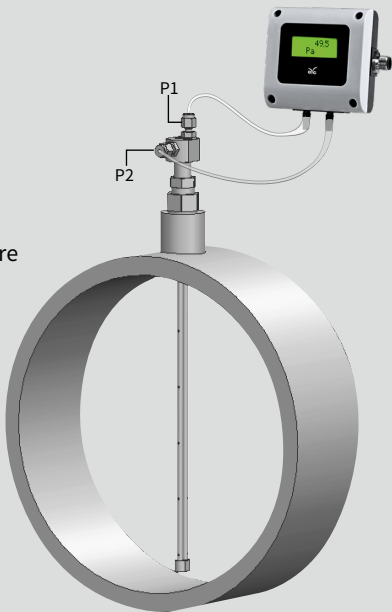
	FDM08	FDM06-I	FTM06D-I	FTE120-I
Picture				
Sensor type	Differential pressure sensor	Hot-wire sensor	Thermal mass flow sensor	Thermal mass flow sensor
Range	0 ... 500 m <sup>3</sup> /h	0 ... 500 m <sup>3</sup> /h	0.1 ... 848 m <sup>3</sup> /h	0 ... 1500 l/min
Output	Analog	Analog, Relay, RS-485	Analog, RS-485, Pulse	Analog, RS-485, Pulse
Accuracy	$\pm 2\%$	$\pm 1.5\%$ F.S.	$\pm 1.5\%$ F.S.	$\pm 2\%$ F.S.
Remark	IP65 (Housing), DN25~50, 16 bar	IP65, DN15~50, 16 bar	IP65, DN15~50, 16 bar	IP65, DN10~25, 10 bar



# AIR FLOW

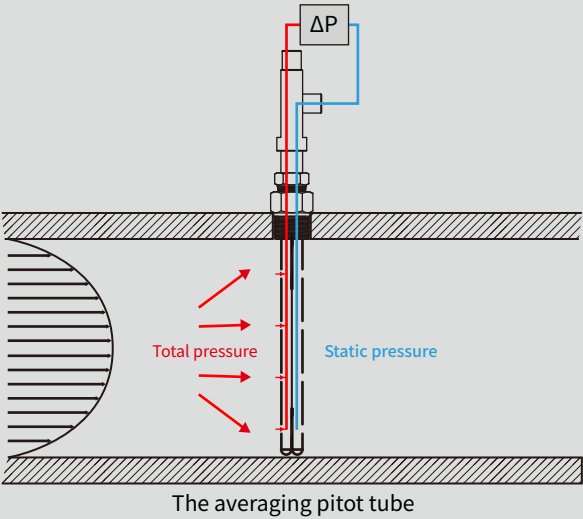
## | Differential Pressure to Air Flow Formula |





$$V = K \sqrt{\frac{2}{\rho} \Delta P}$$
$$Q_v = K \epsilon A \sqrt{\frac{2}{\rho} \Delta P}$$
$$Q_m = Q_v \times \rho$$

- V = Velocity
- $\Delta P$  = Difference between total pressure and static pressure
- $\rho$  = Density
- K = Calibration factor
- $Q_v$  = Volumetric flow rate
- $Q_m$  = Mass flow rate
- $\epsilon$  = Expansion coefficient
- A = Cross-sectional area



	AFMP (Pitot tube)	AFMT (Pitot tube)
Picture		
Operating pressure	Max.10 bar	Max.10 bar
Operating temperature	Max. 600°C	Max. 250°C
Length	4" ... 40"(100 ... 1,000 mm)	4" ... 40"(100 ... 1,000 mm)



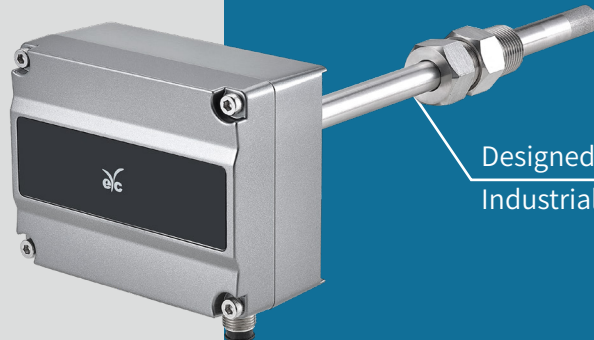
	PMM330	PMD330	PHM330	PHD330
Picture				
Sensor type	Hot-wire type, flow-through	Piezoresistive, no flow-through	Hot-wire type, flow-through	Piezoresistive, no flow-through
Range	±50 ... ±1500 Pa	±50 ... ±10000 Pa	±50 ... ±1500 Pa	±50 ... ±10000 Pa
Output	Analog, RS-485	Analog, RS-485	Analog, RS-485	Analog, RS-485
Accuracy	±1.5% F.S. ±3% M.V.	±2% F.S.	±1.5% F.S. ±3% M.V.	±2% F.S.
IP rating	IP65	IP65	IP65	IP65



# HUMIDITY

THM80X Series

Industrial Temperature & Humidity Transmitter



Designed for  
Industrial application



Measuring range

Temperature : - 40°C ... + 200°C  
Humidity : 0 ... 100%RH



Accuracy

Temperature :  $\pm 0.15^{\circ}\text{C}$   
Humidity :  $\pm 1.2\%\text{RH}$



Response time

$t_{90} < 20 \text{ sec}$



Signal output

Analog & RS-485



Display type

LCD Module

Dual Sensor Capability

Switch Multiple Physical Quantities

Long-term Stability in High Humidity



Resistant to

High temperature  
Dusty Environment

# HUMIDITY

Picture	THM80X		THS30X	
				
	Capacitive Humidity Sensor & Pt 100 A		Capacitive Humidity Sensor & Pt 100 A	
	-40 ... + 200°C, 0 ... 100%RH		-40 ... + 80°C, 0 ... 100%RH	
	Analog, RS-485		Analog, RS-485	
	±0.15°C, ±1.2%RH		±0.2°C, ±1.8%RH	
Remark	IP65		IP65	

Picture	THM06	THM14EX	THE120	THS130/140
				
	Capacitive Humidity Sensor & Pt 100	Capacitive Humidity Sensor & Pt 100	Capacitive Humidity Sensor & Pt 100 A	MEMS
	-40 ... + 180°C, 0 ... 100%RH	-20 ... + 80°C, 0 ... 100%RH	0 ... + 100°C, 0 ... 100%RH	0 ... + 50°C, 0 ... 100%RH
	Analog, RS-485	Analog	Analog, RS-485	Analog
	±0.15°C, ±2%RH	±0.3°C, ±2%RH	±0.2°C, ±2%RH	±0.5°C, ±3%RH
Remark	IP67	IP66	IP65	IP54

Picture	THS13/14	THM50X	THS17	THR23
				
	Capacitive Humidity Sensor & Pt 100	Capacitive Humidity Sensor & Pt 100 A	MEMS	MEMS
	0 ... + 50°C, 0 ... 100%RH	0 ... + 50°C, 0 ... 100%RH	0 ... + 50°C, 0 ... 100%RH	0 ... + 50°C, 0 ... 100%RH
	Analog	Analog, RS-485	Analog, RS-485	Analog, RS-485
	±0.3°C, ±3%RH	±0.1°C, ±1%RH	±0.5°C, ±3%RH	±0.5°C, ±3%RH
Remark	IP54	IP65	IP24 ( Sensor ), IP65 ( Body)	IP20

# DEW POINT

THS88MAX

Industrial Dew Point Transmitter



Designed for  
Industrial application

Faster Response  
Anti-interference  
Temp. Compensation



Dew point scaling range  
-100 ... +20 dp°C



Accuracy  
 $\pm 1$  dp°C



Response time  
 $t_{90} < 20$  sec



Signal output  
Analog & RS-485



Display type  
eyc-tech SD05 Signal Indicator



Suitable for

Extreme dry air



## | Recommend Combination |

### eyc-tech THS88MAX

Input type : Capacitive humidity sensor & Pt100

Dew point scaling range : -100 ... +20 dp°C

Output signal : Analog, RS-485

Linear accuracy :  $\pm 1$  dp°C (at -20 ... +20 dp°C)

$\pm 1.5$  dp°C (at -40 ... +20 dp°C)

$\pm 2$  dp°C (at -60 dp°C)

Reference (at -100 ... -60 dp°C)

Response time  $t_{90}$ (Temp. at +25°C) : <20 sec

IP rating : IP65(Probe : IP20)

### eyc-tech SD05

Display method : 4-digit LED(Height of word : 9.2 mm)

Display range : -1999 ... +9999

Accuracy :  $\pm 0.2\%$ F.S.

Parameter setting : Programmable by pressing the button

Housing material : ABS(UL94V-0) + PC(UL94V-2)

### eyc-tech Dew point measuring chamber

Pressure range : 2 ... 16 bar

Flow : 4 ... 8 LPM

Connection : G1/2" threads

Quick coupler : Japanese C-type

Material : SUS304

✓ Pressure Regulator    ✓ Plug-and-Play    ✓ Real-Time Display

# DIFFERENTIAL PRESSURE

PHD330 / PHM330

Industrial Differential Pressure Transmitter



Designed for  
Industrial Application



Measuring range

PHD330 :  $\pm 50 \dots \pm 10000$  pa  
PHM330 :  $\pm 50 \dots \pm 1500$  pa



Accuracy

PHD330 :  $\pm 2.0\%$  F.S.  
PHM330 :  $\pm 1.5\%$  F.S.  $\pm 3\%$  M.V.



Response time

$t_{63} \leq 2$  ms



Signal output

Analog & RS-485







Display type

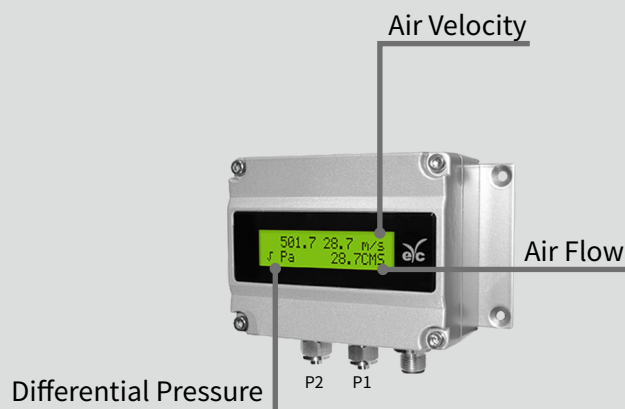
LCD Module

Measure Air Velocity with Pitot Tube  
Multiple Unit Conversions  
Specialized Chips  
DIP Switch

# DIFFERENTIAL PRESSURE

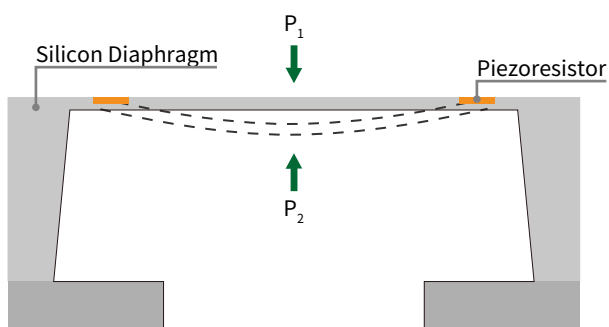
	PMM330 / PHM330	PMD330 / PHD330	FDM06-P	P064
Picture				
Sensor type	Hot-wire, flow-through	Piezoresistive, no flow-through	Hot-wire, flow-through	Piezoresistive, no flow-through
Range	$\pm 50 \dots \pm 1500 \text{ Pa}$	$\pm 50 \dots \pm 10000 \text{ Pa}$	$\pm 0 \dots \pm 1600 \text{ Pa}$	$0.1 \dots 25 \text{ bar}$
Output	Analog, RS-485	Analog, RS-485	Analog, Relay, RS-485	Analog+HART
Accuracy	$\pm 1.5\% \text{ F.S. } \pm 3\% \text{ M.V.}$	$\pm 2\% \text{ F.S.}$	$\pm 1\% \text{ F.S.}$	$0.075 \dots 0.2\%$
Remark	IP65	IP65	IP65	IP65

## Display

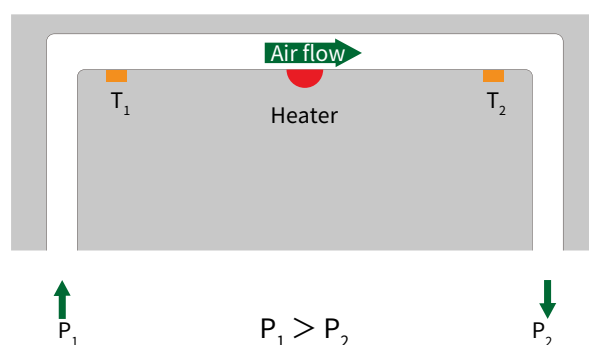


## Measurement Principles

### Piezoresistive Type



### Hot-Wire Type





# SIGNAL METER

DPM04 Flow Totalizer



Designed for Instantaneous and Cumulative Flow Monitoring

2" LCD Display  
Diverse Signal  
Advance Control



Display readout  
Instantaneous flow : 5-digit  
Cumulative flow : 8-digit



Accuracy  
 $\pm 0.1\% \text{ F.S. } \pm 1 \text{ digit}$



Response time adjustment range  
1 ... 60 sec



Signal  
Input : Analog / Frequency / Pulse  
Output : Analog / Relay / RS-485



Display type  
LCD

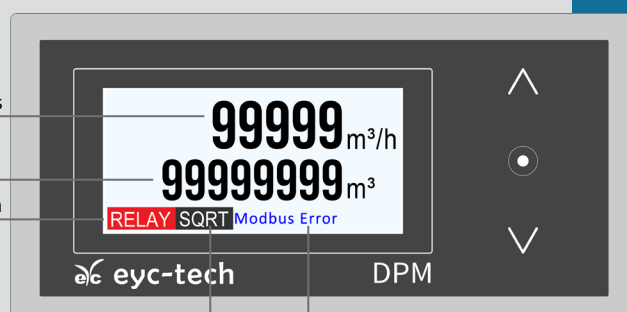
Instantaneous

Cumulative

Relay function




Square root function

Error message



# SIGNAL METER

	DPM04	DPM03	DPM02	DPM11
Picture	Flow Totalizer 			
Display	Instantaneous flow : 5-digit Cumulative flow : 8-digit	5-digit	5 digits	4 digits
Input	Analog, Frequency, Pulse	Analog	Analog	Analog
Output	Analog, Relay, RS-485	Analog, Relay, RS-485	Analog, Relay, RS-485	Relay, RS-485
Accuracy	$\pm 0.1\%$ F.S. $\pm 1$ digit	$\pm 0.1\%$ F.S. $\pm 1$ digit	0.1%F.S. $\pm 1$ digital	0.1%F.S. $\pm 1$ digital
IP rating	IP65 (Front panel)	IP65 (Front panel)	IP65(Front panel)	IP65(Front panel)

	DPT02	SD05	SP03	DPM05
Picture			Splitter 	
Display	3 Digits	4 Digits	No display	Instantaneous flow : 5-digit Cumulative flow : 8-digit
Input	Analog	Analog	Analog	Analog / PT100
Output	Analog, Relay, RS-485	Analog	Analog	Analog, Relay, RS-485
Accuracy	$\pm 0.2\%$ F.S. $\pm 1$ digital	$\pm 0.2\%$ F.S.	$\pm 0.1\%$ F.S.	$\pm 0.2\%$ F.S. $\pm 1$ digit
IP rating	IP20	IP65, DIN 43650, M12	IP54	IP54 (Front panel)

## IOT-HMI-N



**HDMI™**  
HIGH DEFINITION MULTIMEDIA INTERFACE

- Full HD 1080p High Resolution HDMITM Output
- Quad-core CPU with High Performance dedicated 3D Processor
- Plays video in high resolution, video decode 1080p H.264
- Supports customized resolution for 16:9 / 4:3 LCD monitor.
- Compact Design and DIN-rail Mountable
- Fan-less Cooling System
- Built- in 4GB Flash Memory and RTC
- One USB Host Port
- Gigabit Ethernet Port
- Supports MPI 187.5K
- Built-in Power Isolator

Processor : Quad-core RISC

Memory : 4 GB

HDMI output resolution : Customizable, Max. 1920x1080

Input power :  $24 \pm 20\%$  VDC.

I/O Port : USB Host, Ethernet, RS-485 Dual Isolation, HDMI output, etc.

# AIR QUALITY

TEMPERATURE / HUMIDITY / CO<sub>2</sub> / PM2.5

TGP03

Multifunction CO<sub>2</sub>/PM2.5 Indoor Air Quality Monitor



Designed for  
Environment Measurement



Measuring range

Temperature : 0 ... 50°C  
Humidity : 0 ... 100%RH (Non-condensing)  
CO<sub>2</sub> : 0 ... 2,000 PPM  
PM2.5 : 0 ... 500 µg/m<sup>3</sup>



Accuracy

Temperature : ±0.5°C  
Humidity : ±3%RH (at 30 ... 80%RH)  
CO<sub>2</sub> : ±40 PPM ±3% of reading  
PM2.5 : ±10 µg/m<sup>3</sup> ±5% of reading



Response time

T&H : t<sub>63</sub> ≤ 10 sec  
CO<sub>2</sub> : t<sub>90</sub> < 2 min.  
PM2.5 : 3 sec



Signal output

RS-485



Display type

LCD Module


Divers Signal Output  
Real-time Display  
Long-term Stability

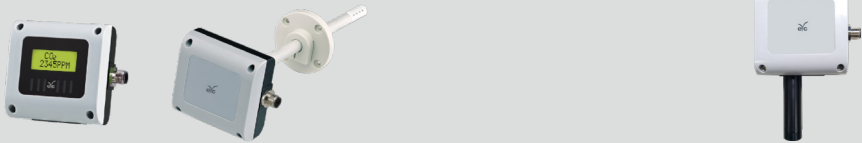
Multifunction

Temperature  
Humidity  
CO<sub>2</sub>  
PM2.5

# AIR QUALITY

## TEMPERATURE / HUMIDITY / CO<sub>2</sub> / PM2.5

	THR23	GS23	THG03	TGP03
Picture				
Sensor type	Temp. / Humidity	CO <sub>2</sub>	Temp. / Humidity / CO <sub>2</sub>	Temp. / Humidity / CO <sub>2</sub> / PM2.5
Range	0 ... 50°C, 0 ... 100%RH	0 ... 2000 PPM	0 ... 2000 PPM, 0 ... 50°C, 0 ... 100%RH	0...50°C, 0...100%, 0...2000PPM, 0...500 µg/m <sup>3</sup>
Output	Analog, RS-485	Analog, RS-485	RS-485	RS-485
Accuracy	±0.5°C, ±3%RH	±40 PPM ±3% of reading	±40PPM ±3% of reading, ±0.5°C, ±3%RH	±0.5°C, ±3%RH, ±40PPM ±3%, ±10µg/m <sup>3</sup> ±5%
IP rating	IP20	IP20	IP20	IP20

	GS43/44	GM33
Picture		
Sensor type	NDIR sensor	Electrochemistry CO Sensor
Range	2000, 5000, 10000 PPM	0 ... 500 PPM
Output	Analog + RS-485	Analog + RS-485
Accuracy	±40 ... ±250 PPM ±3% reading	±3% F.S.
Remark	IP54(GS43), IP64(GS44)	IP65(Body), IP20(Sensor)

## TEMPERATURE FLOW

## LEVEL

	TP04	FUM06	FTC05	L051
Picture				
Sensor type	RTD Pt100	Ultrasonic Time Difference	Resistance Temperature Detector (RTD)	Piezoresistive diaphragm
Range	-50 ... 200°C	0.1 ... 10 m/s	1 ... 200 cm/s, 3 ... 300 cm/s, 6 ... 20 m/s	0 ... 10 bar
Output	Analog	Analog, RS-485	PNP, NPN, Relay	Analog
Accuracy	±0.5% F.S.	±1% F.S.		±0.5% F.S.
IP rating	IP65	IP65, 0 ... 50°C / 20 ... 85%RH	IP65 (Option IP67)	IP68





## Measuring Specialist

Enhance your capability with sensor technology

Air flow | Humidity | Dew point | Differential pressure

Temperature | Level | Air quality | Signal meter



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