eyc Measuring Specialist
T&H / Dew point series
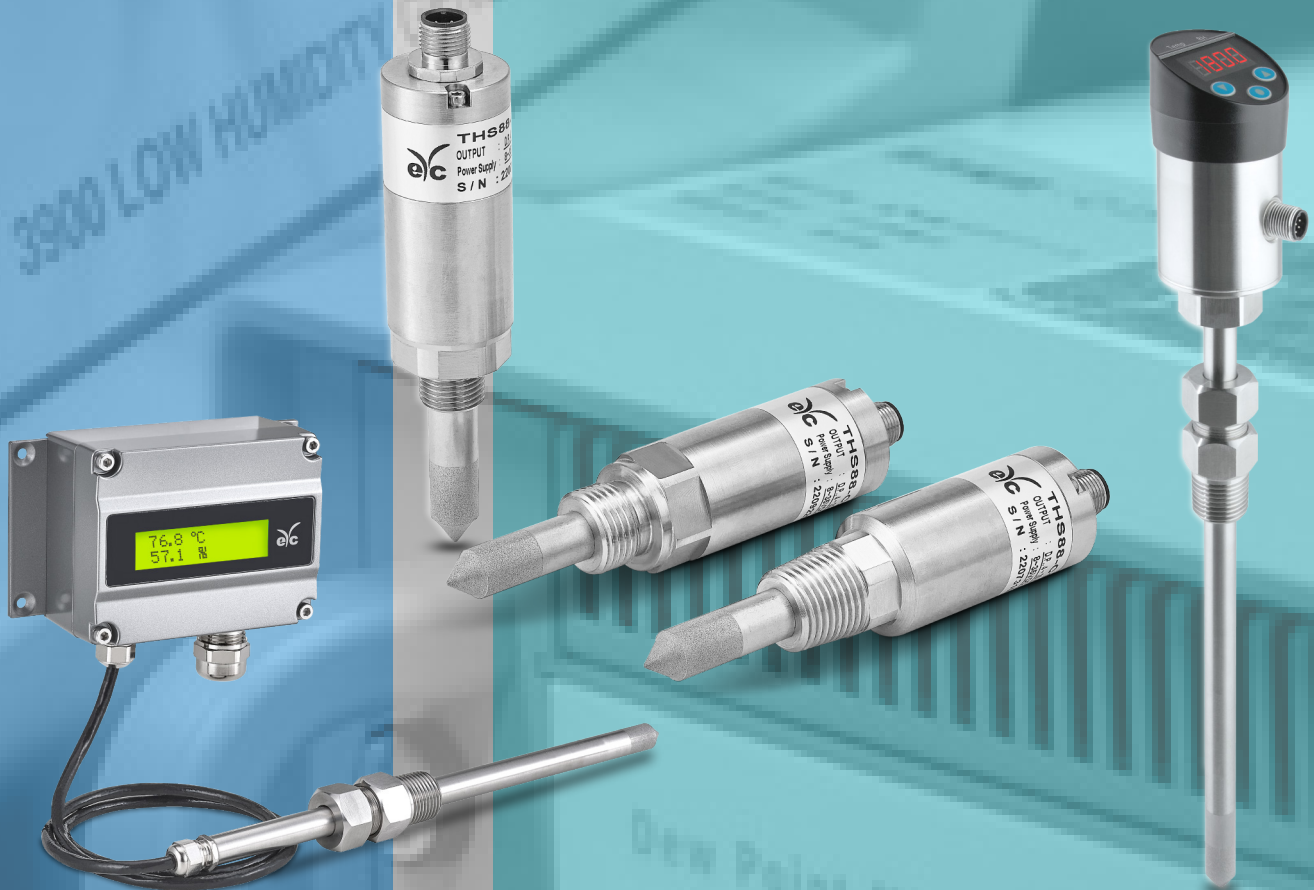
eYc Brand Concept

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 .,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

![eyc logo] Measuring Specialist

Dew Point

THS88MAX

Industrial High Pressure Dew Point Transmitter

- Input：Capacitive humidity sensor & Pt100

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

- Output：：Standard 4 … 20 mA+RS-485 / 0 … 10 V+RS-485 on request

- Accuracy：±1 dp°C (at -20 … +20 dp°C) / ±1.5 dp°C(at -40 … +20 dp°C) /

  ±2 dp°C (at -60 dp°C) / Reference (at -100 … -60 dp°C)

- Dew point calibration, high accuracy, reduce insensitivity temperature zone, quickly response

- EMC anti-interference, anti-condensation, low-temperature influence, long-term stability

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THM06

Industrial Accuracy Temperature & Humidity Transmitter

- Input：Capacitive humidity sensor & Pt100

- Measuring range：0 ... +180°C, customized up to 200°C

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

- Accuracy：Temperature ±0.15°C+0.002°C x tactual / Humidity(0 ... 90%) Nonlinear error：

  ±1.2%RH；Hysteresis error：±0.8%RH；Repeatability error：±0.4%RH /

  Humidity(90 ... 100%) ±2%RH

- IP67, stainless steel SUS304, pressure resistance 16 bar

- 330° rotatable, lightweight, unrestricted installation

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THM802-Duct

THM801-Wall
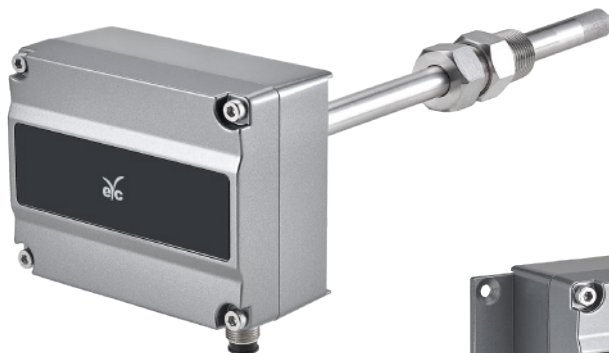
THM803-Remote

T&H

THM80X Series

Industrial High Accuracy Temperature & Humidity Transmitter

- Input：Capacitive humidity sensor & Pt 100 A class

- Measuring range：0 ... 180°C, customized up to 200°C

- Output：0 ... 20 mA / 4 ... 20 mA / 0 ... 1 V / 0 ... 5 V / 0 ... 10 V / RS-485

- Accuracy：Temperature ±0.15°C±0.002°Cxtactual / Humidity(90 ... 100%) ±2%RH/ Humidity(0 ... 90%) Nonlinear error：±1.2%RH；Hysteresis error：±0.8%RH； Repeatability error：±0.4%RH

- High accuracy and quick response at measuring Temp. & humidity

- Work well after temporary condensation. Long-term stability in high humidity environment

- Switch multifunction physical quantities：[%RH]、[°C]、[mbar]、[g/kg]、[g/m³]、[kj/kg]

THM14EX

Temperature and Humidity Transmitter

T&H

- Input：Capacitive Humidity Sensor & PT 1000Ω
- Measuring range：Temperature -20 ... +80°C / Humidity 0 ... 100 %RH
- Output：4 ... 20 mA
- Accuracy：Temperature ±0.3°C+0.002°C x tactual / Humidity ±2%RH(20 ... 80%RH)
- The THM14MX is used to measure temperature, humidity or both in explosion hazardous area
- IP66, rugged aluminium case
- Stainless steel probe, high measurement accuracy, high long-term stability

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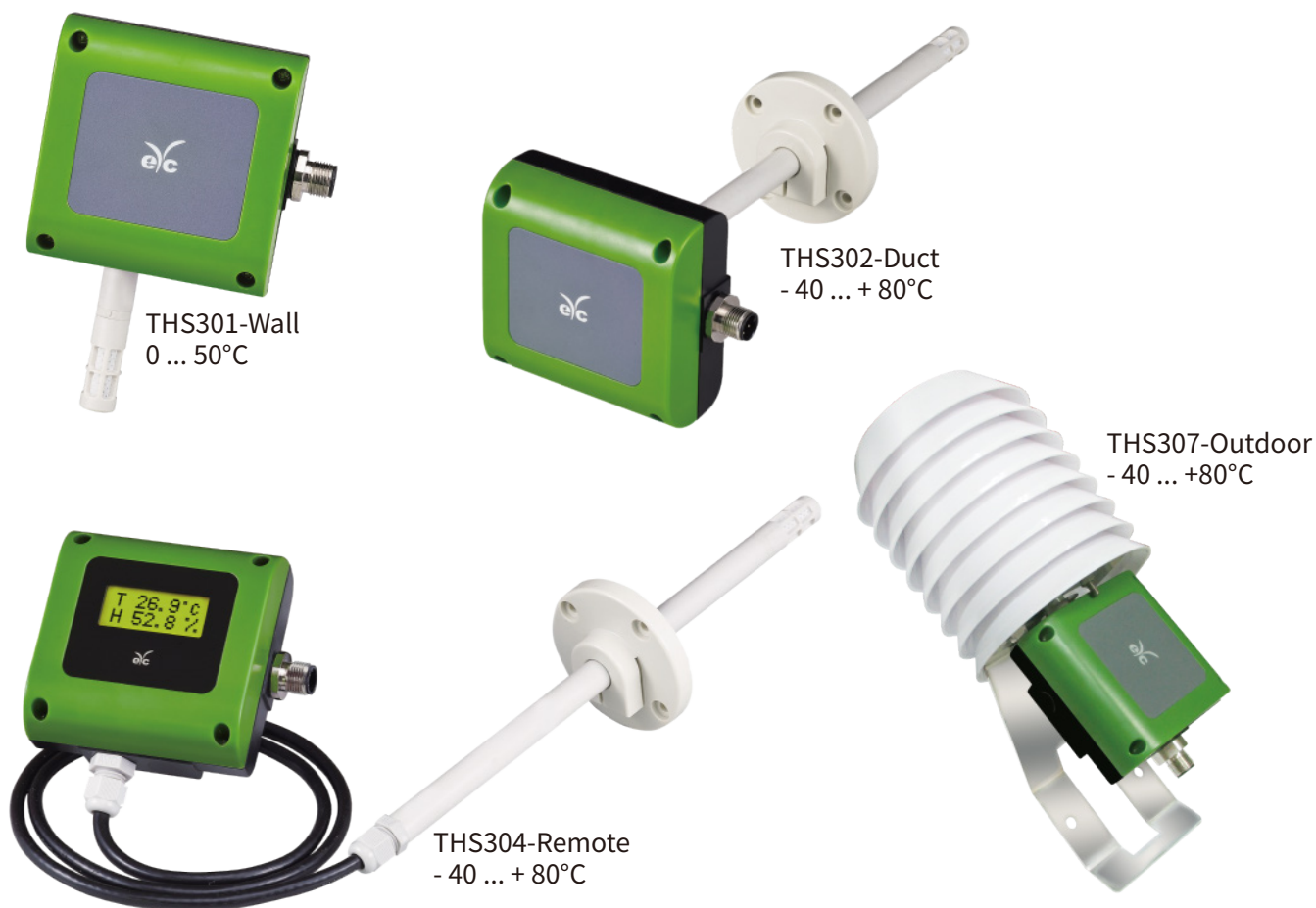eyc **Measuring Specialist**

50 PCS/LOT

T&H

THE120

OEM Temperature and Humidity Transmitter

- Input：Capacitive humidity sensor & Pt100

- Measuring range：Temperature 0 … 100°C / Humidity 0 … 100%RH

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

- Accuracy：Temperature ±0.2°C±0.005°Cx tactual / Humidity ±2%RH(Temp. influence：0.05%RH/°C)

- Compact size and light weight: Suitable for small/medium-sized mechanical devices

- Various installation method: Options from insertion probe with different lengths to inline type installation. Installation method can be customized according to demand

- Polycarbonate housing, great electrical insulation and flame-retardant properties

- RS-485 programmable software : Data logger / Charts

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THS30X Series

Multifunction Temperature & Humidity Transmitter

T&H

THS301-Wall
0 ... 50°C

THS302-Duct
- 40 ... + 80°C

THS307-Outdoor
- 40 ... +80°C

THS304-Remote
- 40 ... + 80°C

- Input：Capacitive humidity sensor & Pt100 class A

- Measuring range：Temperature 0 ... 50°C(THS301)；- 40...+80°C(THS302 / 304 / 307) / Humidity 0 ... 100%RH

- Output：RS-485 or 2 analog output / 4 ... 20 mA / 0 ... 10 V

- Accuracy：Temperature ±0.2°C±0.005°Cx tactual / Humidity ±2%RH

- Industrial sensor comes with high accuracy and long-term stability

- Free programmable software - Physical quantities / Output / Data logger / Charts / Calibration

- Capable of temperature compensation and linear calibration

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THS140 Duct

THS130 Wall

T&H

THS130/140

Temperature & Humidity Transmitter

- Input：MEMS
- Measuring range：0 ... 50°C / 0 ... 100%(Non-condensing)
- Output：4 ... 20 mA / 0 ... 10 V
- Accuracy：Temperature ±0.5°C / Humidity ±3%RH(30 ... 80%RH)
- Excellent long-term stable ability
- Cost-effective and accurate measurement
- Voltage or current outputs

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THS13/14

Temperature & Humidity Transmitter

T&H

THS14 Duct

THS13 Wall

- Input：Capacitive Humidity Sensor & Pt1000 Ω

- Measuring range：0 ... 50°C / 0 ... 100%RH

- Output：4 ... 20 mA

- Accuracy：Temperature 0.3°C+0.002°C x tactual / Humidity ±3%RH(30...80%RH)

- Compact design, good look and easy to install

- High-Tech sensor component with high accuracy and long-term stability

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T&H

THR23

Indoor Temperature & Humidity Transmitter

- Input：MEMS
- Measuring range：0 ... 50°C / 0 ... 100%RH(Non-condensing)
- Output：0 ... 10 V / 4 ... 20 mA / RS-485
- Accuracy：Temperature ±0.5°C / Humidity ±5%RH(30 ... 80%RH)
- Analog outputs and RS-485
- Quick easy installation and maintenance due to well designed
- Data can be logged and transferred to PC via RS-485 with free software

THS17

Temperature and Humidity Transmitter (Digital / Analog)

T&H

- Input：MEMS
- Measuring range：0 ... +50°C / 0 ... +100%RH (Non-condensing)
- Output：4 ... 20 mA / 0 ... 10 V / RS-485
- Accuracy：Temperature ±0.5°C / Humidity ±5%RH (30 ... 80%RH)
- PC fire-proof class plastic and SUS304 metal housing
- Anti-condensation protection
- Compact size and elegant outlook and easy to install, high accuracy, nicer long-term stability

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T&H

THS07

Temperature & Humidity Transmitter for Probe Type

- Input：Capacitive Humidity Sensor & Pt100
- Measuring range：0 ... 50°C / 5 ... 95%RH
- Output：HumidityRTD(Pt100 / NTC10K) / Humidity 0 ... 10 V；4 ... 20 mA
- Accuracy：Humidity ±0.3°C+ 0.002°Cx tactual / Humidity(at +25°C) ±3%RH(30 ... 70%RH) of F.S. / Humidity(at +15 ... 35°C) ±5%RH(20 ... 80%RH) of F.S.
- Compact design and easy to install
- Industrial class sensor comes with high accuracy and long-term stability

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TP01

Temperature Transmitter(2-Wire RTD Head-Mounting Type)

- Output：RTD Pt100 Ω(3-wire)

- Measuring range：-50 ... +400°C

- Output：DC 4 ... 20 mA(2-wire)

- Accuracy：±0.1% F.S.

- High quality, good anti-interference, high cost performance

- ZERO / SPAN adjustable

- Polarity protection ; Over-voltage ; Short-circuit

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Temp.

TP02

Temperature Transmitter for DIN-Rail Type

- Output：RTD Pt100(3-wire)

- Measuring range：-50 ... +200°C

- Output：DC 4 ... 20 mA(2-wire)

- Accuracy：±0.1% F.S.

- Special IC for RTD；High accuracy is assured

- TP02 with smaller volume so lesser space for installation is required

- High quality and low price

- DIN-rail type；Quick to instal

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TP04

Temperature Transmitter (2-wire for duct type)

Temp.

- Output：RTD Pt100 Ω

- Measuring range：-50 ... +200°C

- Output：DC 4 ... 20 mA(2-wire)

- Accuracy：±0.5% F.S.

- SS Housing, all-in design with anti-condensation function and good heat dissipation

- Monitoring for long-distance temperature signal transmission

- With SD05 Integrated Signal Indicator for local display(Optional)

- Good measuring repeatability and anti-interference

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

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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

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