

EXCELLENCE IN MEASUREMENTS



For cutting-edge **SOLUTIONS**

Our selection of temperature, humidity and carbon dioxide transmitters are perfect for HVAC monitoring and controls, such as building automation systems, demand-controlled ventilation and building management systems.



Unrivalled **PERFORMANCE**

Accurate measurements are essential for healthy indoor air and improving the energy efficiency of buildings. Sensors and transmitters from Vaisala are renowned for their unrivalled performance, reliable results, and low total cost of ownership.



Healthy and SUSTAINABLE

The unique, cutting edge Vaisala sensor technologies are manifested throughout our versatile range of products. The transmitters have an exceptionally long lifetime and excellent measurement stability, thus being practically maintenance free. These are among the many reasons why Vaisala's products are a sustainable choice.



5-year

WARRANTY

We are confident in the lasting quality and long lifetime of our measurement instruments. We are offering a standard warranty period of five years on our transmitters for building automation.

5-YEAR WARRANTY ON SELECTED HVAC TRANSMITTERS

Vaisala's high-quality, reliable measurement instruments offer an exceptionally long lifetime, need minimal maintenance, and provide excellent measurement stability. This makes them the ideal choice for reliable HVAC control. Our transmitters for building automation are covered by 5-year warranty.

See all warranty terms: www.vaisala.com/warranty

ROOM TRANSMITTERS

Accuracy that lasts

The secret of the long lifetime of our transmitters: The winning combination of unique measurement technology and careful future-proof design of instruments. These products with exceptionally long lifetime and excellent measurement stability are practically maintenance free, and a sustainable choice.

	HMW90 Series Humidity and Temperature Transmitters	TMW90 Series Temperature Transmitters	GMW90 Series Carbon Dioxide, Humidity and Temperature Transmitters
INSTALLATION	Wall-mount	Wall-mount	Wall-mount
OUTPUT PARAMETERS	Relative humidity Temperature Dew point / frost point temperature Wet bulb temperature Enthalpy Mixing ratio Absolute humidity Dew point depression	Temperature	Carbon dioxide Relative humidity Temperature Dew point/frost point temperature Wet bulb temperature Enthalpy Mixing ratio Absolute humidity Dew point depression
OUTPUT OPTIONS	420 mA loop powered 05/010 V, optional relay Modbus RTU	420 mA loop powered 05/010 V, optional relay	420 mA 05/010 V Modbus RTU
DETAILS	IP30 enclosure Display option Optional decorative covers User exchangeable measurement modules available Accuracy ±1.7% Rh, ±0.2°C (±0.36 °F) Calibration certificate included	IP30 enclosure Display option Optional decorative covers User exchangeable measurement modules available Accuracy ±0.2°C (±0.36 °F) Calibration certificate included	IP30 enclosure Display option Optional LED CO ₂ indication Optional decorative covers User exchangeable measurement modules available CO ₂ measurement range 05 000 ppm Accuracy ±1.7% Rh, ±0.2°C (±0.36 °F) +50 ppm at 1000 ppm CO ₂ Calibration certificate included
READ MORE	<u>DATASHEET</u>	<u>DATASHEET</u>	<u>DATASHEET</u>

The general purpose HVAC transmitters are renowned for their long lifetime and low total cost of ownership, their reliability and negligible maintenance needs throughout the product life cycle.

HMW82/83 Humidity and Temperature Transmitters	TMW82 Temperature Transmitters	GMW83/84/86 Carbon Dioxide, Humidity and Temperature Transmitters
Ment	WESTLE	22.6°C 45.134 530 1 112.00 1 1
Wall-mount	Wall-mount	Wall-mount
Relative humidity Temperature	Temperature	Carbon dioxide Relative humidity Temperature
420 mA loop powered 010 V	420 mA loop powered	420 mA 010 V
IP30 enclosure Accuracy ±3% Rh, ±0.5 °C (±0.9 °F) Display option	IP30 enclosure Accuracy +0.5 °C (±0.9 °F)	IP30 enclosure Display option (GMW83) LED CO2 indication (GMW83A) Range: 02000 ppm Accuracy ±60 ppm at 1000 ppm CO2, ±3% Rh, ±0.5 °C (±0.9 °F)
<u>DATASHEET</u>	<u>DATASHEET</u>	<u>DATASHEET</u>



Watch the installation and calibration video of the HMW90 series to learn how easy it is: www.vaisala.com/HMW90

WALL TRANSMITTERS

Perfect for demanding environments

The unique, cutting edge Vaisala sensor technologies are manifested throughout our versatile range of products. The measurement technology is known for superior performance even in challenging environments. Prestigious for unrivalled performance and reliability, our sensors and transmitters stand out for low total cost of ownership.

	HMT120/130 Series Humidity and Temperature Transmitters	TMT120/130 Series Temperature Transmitters	HMW110 Series Humidity and Temperature Transmitters
INSTALLATION	Wall-mount, duct-mount, outdoor	Wall-mount, duct-mount, outdoor	Wall-mount
OUTPUT PARAMETERS	Relative humidity Temperature Dew point / frost point temperature Wet bulb temperature Enthalpy Mixing ratio	Temperature	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy
OUTPUT OPTIONS	420 mA loop powered 01/05/010 V	420 mA loop powered 01/05/010 V	420 mA loop powered Modbus RTU
DETAILS	IP65 Available with fixed and remote probe Interchangeable probes Accessories for duct/outdoor installation Accuracy ±1.5% Rh, ±0.1 °C (±0.18 °F) Calibration certificate included Display option	IP65 Interchangeable probes Accuracy ±0.1 °C (±0.18 °F) Calibration certificate included Display option	IP65 Accuracy ±2% Rh, ±0.2 °C (±0.36 °F) Calibration certificate included Display option Optional M12 connector available
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UNIQUE SENSOR TECHNOLOGY INSIDE

The unique, cutting-edge Vaisala sensor technologies are manifested throughout our versatile range of products. Accuracy and long-term stability of Vaisala sensors is absolutely the best of class within the industry. When it comes to reliable measurements, Vaisala products are in the league of their own.

TMW110 Series Temperature Transmitters	HMW88/89 Humidity and Temperature Transmitters	TMW88 Temperature Transmitters	GMW87/88 Carbon Dioxide Transmitters
Wall-mount	Wall-mount	Wall-mount	Wall-mount
Temperature	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy	Temperature	Carbon dioxide
420 mA loop powered Modbus RTU	420 mA loop powered 010 V	420 mA loop powered 010 V	420 mA, 010 V Modbus RTU (GMW87)
IP65 enclosure Display option Accuracy ±0.3 °C (±0.54 °F) Optional M12 connector available	IP65 enclosure Display option Accuracy ±3% Rh, ±0.3 °C (±0.54 °F)	IP65 enclosure Accuracy ±0.3 °C (±0.54 °F)	IP64 enclosure Range: 05000 ppm Accuracy +60 ppm at 1000 ppm CO ₂
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DUCT/IMMERSION TRANSMITTERS

Reliable measurements where it truly matters

When reliability matters, the measurements matter. Maintaining as-designed indoor conditions with minimized consumption of energy requires precision and reliability in every piece in the chain. Although influenced by many variables, eventually the control of your HVAC systems can be only as precise as your measurements are.

	HMD60 Series Humidity and Temperature Transmitters	TMD60 Series Temperature Transmitters	HMD110 Series Humidity and Temperature Transmitters	TMD110 Series Temperature Transmitters
INSTALLATION	Duct-mount	Duct-mount	Duct-mount	Duct-mount
OUTPUT PARAMETERS	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy Absolute humidity Mixing ratio	Temperature	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy	Temperature
OUTPUT OPTIONS	420 mA loop powered 010 V Modbus RTU BACnet MS/TP	420 mA loop powered	420 mA loop powered Modbus RTU	420 mA loop powered Modbus RTU
DETAILS	IP66 (NEMA4X) A robust metal enclosure Stainless steel probes Probe length options 25 cm and 10 cm (10" and 4") Accuracy ±1.5% Rh, ±0.1 °C (±0.18 °F) Calibration certificate included	IP66 (NEMA4X) A robust metal enclosure Stainless steel probes Probe length options 25 cm and 10 cm (10" and 4") Accuracy ±0.1 °C (±0.18 °F) Calibration certificate included	IP65 Accuracy ±2% Rh, ±0.2 °C (±0.36 °F) Calibration certificate included Display option	IP65 Accuracy +0.2 °C (±0.36 °F) Calibration certificate included Display option
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GMD110 series Carbon Dioxide Transmitters	TMI110 series Temperature Transmitters	HMD82/83, TMD82 Humidity and Temperature Transmitters	PDT101 Differential Pressure Transmitters
Duct-mount	Immersion type, in thermowell	Duct-mount	Wall-mount / DIN-rail
Carbon dioxide	Temperature of liquid	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy	Differential pressure
420 mA 010 V Modbus RTU	420 mA loop powered Modbus RTU	420 mA loop powered Modbus RTU	420 mA 05/10 V
IP65 Accuracy ± 40 ppm CO2 Calibration certificate included	IP65 Accuracy ± 0.1 °C Probe lengths 100 / 150 / 200 mm Thermowells available Calibration certificate included Display option	IP65 Accuracy +2% Rh, +0.2 °C (±0.36 °F) Calibration certificate included Display option	IP40 Accuracy 0.4% / 1% of span Unidirectional/bidirectional options Optional pressure ranges Easy mounting
<u>DATASHEET</u>	<u>DATASHEET</u>	<u>DATASHEET</u>	<u>DATASHEET</u>

For spot-checking and calibration

For all HVAC applications

Vaisala as a global leader in environmental and industrial measurements offers a unique selection of indoor and outdoor instruments for HVAC applications. The versatile outdoor and weather instruments provide the best possible information on prevailing outdoor conditions.

	HMS110 Series Humidity and TemperatureTransmitters	HMS82/83 & TMS82/83 Humidity and Temperature Transmitters	GMP252 Carbon Dioxide Probe with DTR250 Radiation Shield	WXT530 Series Weather Transmitters
INSTALLATION	Outdoor model with integrated radiation shield	Outdoor model with integrated radiation shield	Outdoor model with radiation shield	Outdoor model with integrated radiation shield
OUTPUT PARAMETERS	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy	Relative humidity Temperature Dew point temperature Wet bulb temperature Enthalpy	Carbon dioxide	Air pressure Temperature Humidity Rainfall Wind speed Wind direction
OUTPUT OPTIONS	420 mA 010 V Modbus RTU	420 mA 010 V	420 mA 010 V Modbus RTU	Modbus RTU
DETAILS	Ingress protection IP65 Accuracy ±2% Rh, ±0.2 °C (±0.36 °F) Calibration certificate included	Ingress protection IP65 Accuracy ±3% Rh, ±0.3 °C (±0.54 °F)	CO ₂ measurement ranges: 02000/3000/ 5000 ppm Accuracy ±40 ppm at 400 ppm CO ₂	Accuracy ±0.5 hPa, ±0.3 °C (±0.54 °F), ±3% Rh, ±3% at 10 m/s
READ MORE	<u>DATASHEET</u>	<u>DATASHEET</u>	<u>DATASHEET</u>	<u>DATASHEET</u>

Vaisala Indigo80 Handheld Indicator is an industrial-grade portable diagnostics tool. Accommodating up to two Vaisala measurement probes, Indigo80 is ideal for spotchecking and process monitoring, as well as for configuring, troubleshooting, calibrating, and adjusting Vaisala Indigo-compatible probes and transmitters.

Indigo80

> FEATURES

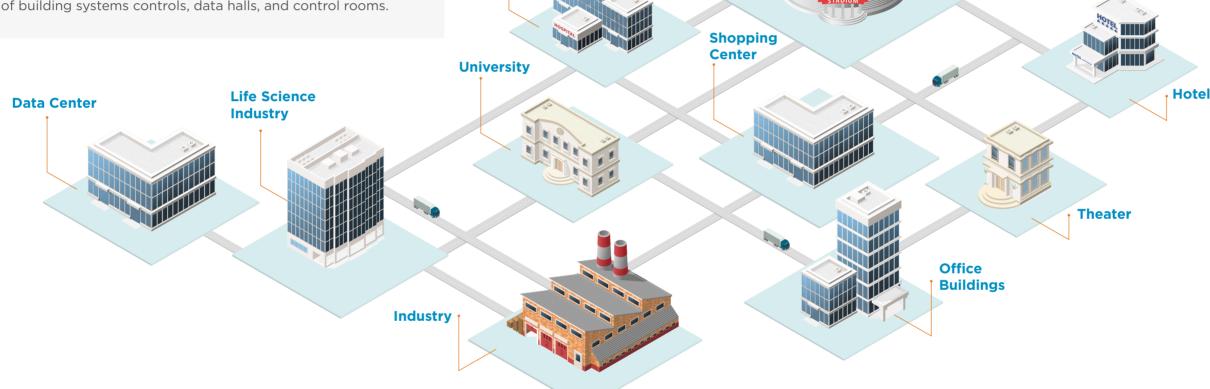
- Dual-probe, high-accuracy portable diagnostics and data logging tool. Log up to a month's worth of measurement data.
- Industry standard USB-C interface for data uploads and battery charging. Lithium-ion battery provides a typical operation time of 10 hours.
- Robust, durable aluminum body is resistant to chemicals and dust.
- Multilingual, menu-based user interface available in 10 languages.
 View live measurement data as numbers or graphs.
- Intuitive user interface that guides the user if needed. Designed to be easy to use.

Indicator		
20 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
ure -20 +50 °C (-4 +122 °F) 20 85 %RH, when Ta ≤ +40 °C (+104 °F)		

READ MORE	DATA SHEET VAISALA.COM
SUPPORTE LANGUAGES	English, Chinese, Finnish, French, German, Italian, Japanese, Portuguese, Spanish, Swedish
ALARM	Audible alarm function
LOGGING DURATION	1 min memory full
LOGGING INTERVAL	1 s 12 h
DATA LOGGING CAPACITY	Up to 5.5 million real-time data values
MAX. NUMBER OF CONNECTED PROBES	2
OPERATING ENVIRONMENT	Temperature -20 +50 °C (-4 +122 °F) Humidity 20 85 %RH, when Ta ≤ +40 °C (+104 °F)

DATA CENTERS & MISSION-CRITICAL BUILDINGS

HVAC sensors play a crucial role in successful building system chain management. Energy consumption and efficiency can be significantly improved in mission-critical buildings like data centers with these small instruments. The reliability of measurements contributes to the trustworthiness of building systems controls, data halls, and control rooms.



Hospital

Stadium

MANUFACTURING & INDUSTRIAL FACILITIES

Manufacturing facilities and industrial facilities require high standards for measurements. Optimizing processes through precisely controlled indoor environments will increase efficiency and eliminate waste and variation. It is necessary to have high-quality HVAC sensors in special spaces, such as clean rooms or labs, as well as throughout the facility and its control room.

COMMERCIAL BUILDINGS

A reliable measurement system is essential to a commercial building's success. Buildings in the commercial sector are expected to be energy efficient and environmentally friendly, as well as comfortable and healthy indoor environments. It is critical to have instruments that have a high degree of reliability and minimal drifting, which reduces the maintenance requirements and ensures that the building systems are operating optimally.

Museum



Global coverage with LOCAL PRESENCE

As a global leader in industrial, weather and environmental measurements, we provide reliable, accurate and innovative products and solutions that enabling better decision-making, increased productivity, and improved safety and quality.

Customers all over the world and in a multitude of industries use our measurement solutions. Everywhere from forecasting weather and making sure it is safe for your flight to take off, to staying ahead of power outages or monitoring incubators for premature children in hospitals, you can find Vaisala's premium measurement solutions in action all over the world.



Vaisala's premium measurement solutions enhance safety, efficiency, and decision-making – for a sustainable future on our planet. The heart of Vaisala's sustainability lies in the positive impact of our products, as they help our customers, for example, to increase energy efficiency and reduce emissions.

Available

ONLINE 24/7

Our products are easily available, any time, through the Vaisala Online Store. We have fast deliveries on all new instrument as well as spare part online orders. All instruments are made to order and calibrated just before shipment.





Free shipping

Fast, free deliveries on all new instrument & spare part online orders



Safe Payment

Easy and secure payments options



Calibration

All instruments are made to order and calibrated just before shipment

