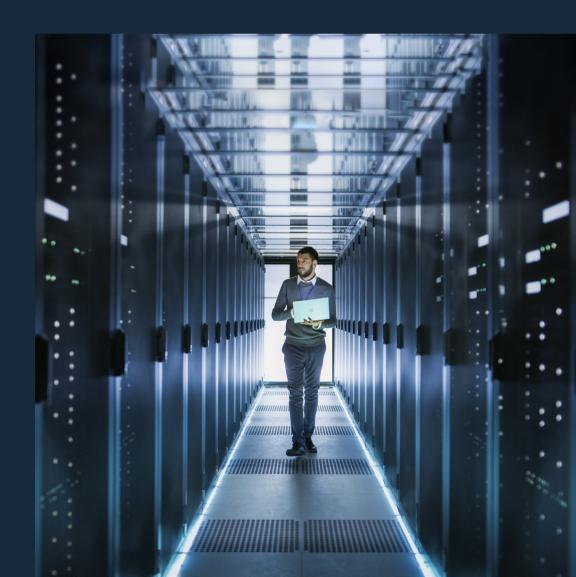
## **VAISALA**

## Data Centers

Catalogue



www.vaisala.com

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### Excellence in Measurements

When reliability matters, the measurements matter. Creation of as-designed indoor conditions with minimized consumption of energy is not an easy task. It requires precision and reliability in every piece in the chain. Although influenced by many variables, eventually the control of your HVAC processes can be only as precise as your measurements are. Measurements of humidity, temperature, and other crucial parameters both indoors and outdoors, are among the key contributors to precisely controlled indoor environment.

Vaisala is a global leader in environmental and industrial measurements. As the trusted provider of measurement instruments, we offer you peace of mind. You can rest assured that our measurement devices will enable the highest precision and reliability for your controlled processes.

Let us introduce our signature collections of high quality instruments for data centers, for your convenience.





How much can measurement accuracy impact on cooling energy consumption? <u>Download our free</u> insider's guide to know more!



### Selection for Data centers

Vaisala's offering is a unique combination of outstanding outdoor and indoor measurement instruments. Our selection brings together world-renowned weather and outdoor transmitters and the top-quality measurement instruments used in monitoring and control of indoor environments.

The unique, cutting edge Vaisala sensor technologies are manifested throughout our versatile range of products. Humidity measurement with Vaisala HUMICAP technology is known for superior performance even in challenging environments. All our transmitters have an exceptionally high reliability





and excellent measurement stability. The products are easy to maintain throughout their long lifetime.

Measurements in data centers must not fail. Sensors and transmitters of Vaisala are prestigious for their unrivalled performance and reliability, enabling precise and trustworthy controls of HVAC systems.



How continuity is enabled in data centers with Vaisala sensors? Read the blog post to learn more







## For the premium performance

When the highest possible quality and reliability is required, we have the perfect solution for you. This is the new "de facto" selection for data centers applying the highest standards. The selection brings together the most essential high-precision measurement instruments designed for critical environments. The products come with uniquely excellent accuracy, reliability and long-term stability of measurement.

#### **INDIGO**

Configurable Transmitter



Versatile transmitter for Indigo Probes Outputs: 4-20 mA, 0-10 V, Modbus TCP/IP Robust metal appearance User friendly interface

#### **INDIGO PROBES**

Industrial Grade Measurement Probes



Compatible with INDIGO transmitter Wide selection for professional use

HMP1: Wall-mounted RH + T probe HMP3: General purpose RH + T probe

HMP7: RH + T probe



Read more about the Indigo ecosystem and the interchangeable measurement probes.



#### HMD60

#### Duct Humidity and Temperature Transmitter



Accuracy ±1.5% RH, ±0.1 °C (±0.18 °F)
Outputs: 4-20 mA, 0-10 V, Modbus RTU,
BACnet MS/TP
Full metal body, IP66 enclosure
Proven accuracy even in harsh conditions

#### HMT120/130

#### Humidity and Temperature Transmitter, Multipurpose



Accuracy ±1.5% RH, ±0.1 °C (±0.18 °F)
Outputs: 4-20 mA, 0-10 V
Exchangeable measurement probes
IP65 enclosure, optional display
Ideal for demanding conditions and processes

#### **TMD60**

#### **Duct Temperature Transmitter**



Accuracy ±0.1 °C (±0.18 °F)
Output: 4-20 mA
Full metal body, IP66 enclosure
Proven accuracy even in harsh conditions

#### TMT120/130

#### Temperature Transmitter, Multipurpose



Accuracy ±0.1 °C (±0.18 °F)
Outputs: 4-20 mA, 0-10 V
Exchangeable measurement probes
IP65 enclosure, optional display
Ideal for demanding conditions and processes

#### **TMI110**

#### Immersion Temperature Transmitter



Accuracy ±0.1 °C (±0.18 °F)
Outputs: 4-20 mA, Modbus RTU
Installed in a thermowell
Precise measurement of liquids
Very fast response time

#### **PDT101**

#### Differential Pressure Transmitter



Accuracy: 0.4 % / 1 % of span Outputs: 4-20 mA, 0-5 V, 0-10 V Unidirectional/bidirectional options Optional pressure ranges Easy mounting

#### **WXT530**

#### Weather Transmitter



Weather parameters: air pressure, temperature, humidity, rainfall, wind speed, wind direction Output: Modbus RTU Integrated radiation shield

#### **WMT700**

#### Ultrasonic Wind Sensor



Accuracy (speed): ±0.1 m/s or 2% of reading Accuracy (direction): ±2 degrees Outputs: current, voltage Designed for professional use

#### PTB210 + SPH20

#### Digital Barometer + Static Pressure Heads



Total accuracy up to ±0.25 hPa Outputs: 0-2.5 V, 0-5 V Designed for harsh outdoor conditions Minimized wind effects

# Precision with streamlined features

We are pleased to introduce our world-class repertoire of high-accuracy transmitters, complementing the building automation system even in the most demanding indoor environments and their control needs. Vaisala's measurement instruments are the perfect fit for data centers with reliability as a priority, and within a reasonable budget. The products come with excellent long-term stability of measurement, which ensures accuracy of measurement and precise controls also in the long term.

#### HMT120/130

Humidity and Temperature Transmitter, Multipurpose



Accuracy ±1.5% RH, ±0.1 °C (±0.18 °F)
Outputs: 4-20 mA, 0-10 V
Exchangeable measurement probes
IP65 enclosure, optional display
Ideal for demanding conditions and processes

#### TMT120/130

Temperature Transmitter, Multipurpose



Accuracy ±0.1 °C (±0.18 °F)
Outputs: 4-20 mA, 0-10 V
Exchangeable measurement probes
IP65 enclosure, optional display
Ideal for demanding conditions and processes

#### **HMW90**

Room Humidity and Temperature Transmitter



Accuracy ±1.7% RH, ±0.2 °C (±0.36 °F)
Outputs: 4-20 mA, 0-10 V, Modbus RTU
Exchangeable measurement modules
Display with sliding cover



#### **HMW110**

#### Humidity and Temperature Transmitter, Wall-mounted



Accuracy ±2% RH, ±0.2 °C (±0.36 °F)
Outputs: 4-20 mA, Modbus RTU
IP65 enclosure, optional display
Durable design, minimized maintenance needs

#### **TMW110**

#### Temperature Transmitter, Wall-mounted



Accuracy ±0.2 °C (±0.36 °F)
Outputs: 4-20 mA, Modbus RTU
IP65 enclosure, optional display
Durable design, minimized maintenance needs

#### **HMS110**

#### Outdoor Humidity and Temperature Transmitter



Accuracy ±2% RH, ±0.2 °C (±0.36 °F)
Outputs: 4-20 mA, Modbus RTU
Integrated rain / solar radiation shield
Tolerant of high winds and icing conditions

#### **HMD110**

### Duct Humidity and Temperature Transmitter



Accuracy ±2% RH, ±0.2 °C (±0.36 °F) Outputs: 4-20 mA, Modbus RTU IP65 enclosure, optional display Durable design, easy to install

#### **TMD110**

#### **Duct Temperature Transmitter**



Accuracy ±0.2 °C (±0.36 °F)
Outputs: 4-20 mA, Modbus RTU
IP65 enclosure, optional display
Durable design, easy to install

#### **TMI110**

#### Immersion Temperature Transmitter



Accuracy ±0.1 °C (±0.18 °F)
Outputs: 4-20 mA, Modbus RTU
Installed in a thermowell
Precise measurement of liquids
Very fast response time

#### **TMW90**

#### Room Temperature Transmitter



Accuracy ±0.2 °C (±0.36 °F)
Outputs: 4-20 mA, 0-10 V
Exchangeable measurement modules
Display with sliding cover

#### **PDT101**

#### **Differential Pressure Transmitter**



Accuracy: 0.4 % / 1 % of span Outputs: 4-20 mA, 0-5 V, 0-10 V Unidirectional/bidirectional options Optional pressure ranges Easy mounting

#### **WXT530**

#### Weather Transmitter



Weather parameters: air pressure, temperature, humidity, rainfall, wind speed, wind direction Output: Modbus RTU Integrated radiation shield

# Compact options for tight installations

When the space is limited, the miniature-size measurement probes form a compact solution for critical sites. Probes are connected through Modbus RTU and can be daisy-chained for easy installation. Optional accessories are also available for convenience, including magnetic probe attachment units and plug & play cables of various lengths, with standard M8 quick connectors.



#### **HMP110 | HMP110T**

**Humidity and Temperature Probe** 

Accuracy ±1.5% RH, ±0.1 °C (±0.18 °F) Ideal for rough conditions IP65 metal housing High chemical tolerance Excellent measurement stability Length 71 mm (2.8 in), diameter 12 mm (0.47 in)



#### **HMP113**

**Humidity and Temperature Probe** 

Accuracy ±1.5% RH, ±0.1 °C (±0.18 °F)
Fast thermal response time
IP54 plastic enclosure
High chemical tolerance
Excellent measurement stability
Length 71 mm (2.8 in), diameter 12 mm (0.47 in)



Miniature-size measurement probes are a compact solution for critical sites. Read more about Vaisala's humidity sensors



# Sustainability in the heart of our business

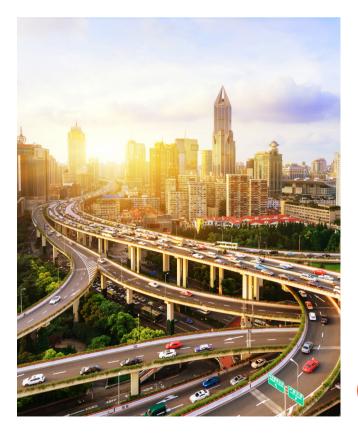
Vaisala's premium measurement solutions enhance safety, efficiency, and decision-making – for a sustainable future on our planet.

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.



Learn more about our sustainability.

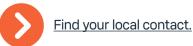




## Global coverage with local presence

As a global leader in industrial, weather an 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.





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