**NEw**

**Next-Generation Production Environment Sensors**

**EQUO Series**

**Precision Thermo-Humidity Logger**

ZN-THS-S (Sensor head)  
ZN-THX11-SA (Logger)

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**Easy temperature and humidity control with an SD Card**

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**In addition to Thermo-Humidity Logger...**

**LAN Connection models also available**

**Thermo-Humidity Station**
Integrated networked monitoring of temperature and humidity data

**Differential Pressure Station**
Use to control positive pressure in clean booths!

**LAN connection models are ideal for a wide variety of continuous-monitoring needs.**
LAN connection models feature a built-in LAN port. Data can be retrieved via a network, allowing for efficient, integrated control of equipment and production environment.

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**Clearly visualize your entire production environment including temperature, humidity, airborne particles, dust fallout, and differential pressure!**

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**Dimensions (unit: mm)**

<table>
<thead>
<tr>
<th></th>
<th>Logger ZN-THX11-SA</th>
<th>Sensor Head ZN-THS17-S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>[Sensor Head]</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZN-THS11-S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width: 53.2  l 1.5 in</td>
<td></td>
<td>Width: 32.2 l 1.3 in</td>
</tr>
<tr>
<td>Height: 145</td>
<td></td>
<td>Height: 79.7</td>
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<tr>
<td>Depth: 29.2</td>
<td></td>
<td>Depth: 13.5</td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
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<td><strong>[Logger]</strong></td>
<td></td>
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**Built-in LAN port**

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**OMRON Corporation**  
**Industrial Automation Company**

Contact:  
www.ia.omron.com
Meeting the need for “easier management of temperature and humidity data”

Omron Precision Thermo-Humidity Loggers use sensors with the highest precision in their class and the first SD Card. This enables precise control of temperature and humidity at multiple points along the manufacturing line and more. The logger has alarm output providing immediate alerts when trouble occurs, helping meet strict quality control standards for data collection.

SD Card system makes data collection more efficient
- Data can be collected only when needed by simply inserting an SD Card
- Thermo-Humidity Logger memory can store up to approx. 8,500 pieces of data
- Measured data is transferred to CSV format and stored in an SD Card
- Data continues to be recorded in built-in memory even while data is being collected onto SD Card
- Store data up to maximum memory capacity by keeping SD Card continually inserted (approx. 17 million pieces of data per 1GB. Store up to 5 years of data when measurements are made every 10 seconds)

PCEQ display shows the actual size

Compact body with useful features!
- Large, easy-to-read characters
- Easy operation similar to portable gaming device
- Easy to hang on wall as well
- Easy to read characters
- Easy to hang on wall as well
- Back side features two types of holes, for wall-hanging and for anchoring

SD Card slot

Alarm output terminal

First in its class!
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- Store data up to maximum memory capacity by keeping SD Card continually inserted
- Photo shows actual size
- Top in its class

Remarkably high measurement accuracy
- Temperature measurement accuracy: ±0.3 °C
- Humidity measurement accuracy: ±2.5%
- Precision measurement ensures a temperature resolution of 0.1°C and humidity accuracy of plus/minus 2.5%.
- This enables more precise control of temperature and humidity, which contributes to improvement in product quality.

Alarm output for immediate response when trouble occurs
- Example: When temperature exceeds threshold value, an error indicator lights up
- The logger has an alarm output. Unusual temperature and humidity are made visible, enabling you to make a quick response and to make it easy to systemize manufacturing lines.

Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>ZN-THX11C-S</th>
<th>ZN-THS17-C-S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor head</td>
<td>Anchored type</td>
<td>1.5 m type</td>
</tr>
<tr>
<td>Calibrated in</td>
<td>0 to 40 °C</td>
<td>0 to 100%</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>30 to 85%</td>
<td>30 to 90%</td>
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<tr>
<td>Resolution</td>
<td>±0.1°C</td>
<td>±0.1%</td>
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<tr>
<td>Weight</td>
<td>Approx. 50 g</td>
<td>Approx. 830 g</td>
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<tr>
<td>Accessories</td>
<td>Mounting screw (M3 x 8) x 1</td>
<td>Mounting screw (M3 x 8) x 1</td>
</tr>
</tbody>
</table>

Calibration service
- Certificate of Calibration, Test Transcript: Provided

Quick and easy data collection with a single SD Card!
- No need to attach it by itself. No need for PC or other collection equipment.

Data collection screen

Bundled software
- Create graphs easily by simply designating the SD Card drive!

Insert the SD card containing collected data into a PC, and simply designate the drive in order to manage and graph the recorded data. Measurement data is stored in CSV format, allowing for easy temperature and humidity data management.
Meeting the need for “easier management of temperature and humidity data”

Omron Precision Thermo-Humidity Loggers use sensors with the highest precision in their class and the first SD Card. This enables precise control of temperature and humidity at multiple points along the manufacturing line and more. The logger has alarm output providing immediate alerts when trouble occurs, helping meet strict quality control data collection system, efficient data collection, and standards.

**SD Card system makes data collection more efficient**

- Data can be collected only when needed by simply inserting an SD Card.
- Thermo-Humidity Logger memory can store up to approx. 8,500 pieces of data.
- Measured data is transferred to CSV format and stored in an SD Card.
- Data continues to be recorded in built-in memory even while data is being collected onto SD Card.
- Store data up to maximizes approx. 17 million pieces of data per 1GB. Store up to 5 years of data when measurements are made every 10 seconds.

**Compact body with useful features!**

- Large, easy to read characters!
- Easy operation similar to portable gaming device.
- Start recording with the touch of a single button!
- Compact body with useful features!
- Photo shows actual size
- Bundled software
- Easy to hang on wall as well

**Remarkably high measurement accuracy**

- Temperature measurement accuracy: ±0.3°C (at 20°C)
- Humidity measurement accuracy: ±2.5% (20 to 85% RH)
- Precision measurement ensures a temperature resolution of 0.1°C and humidity accuracy of plus/minus 2.5%
- This enables more precise control of temperature and humidity, which contributes to improvement in product quality.

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<td>Sensor Head (Type A)</td>
<td>Sensor Head (Type B)</td>
<td></td>
</tr>
<tr>
<td>Specification</td>
<td>±0.3°C (at 20°C)</td>
<td>±0.5°C (at 25°C to 35°C)</td>
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</tr>
<tr>
<td>Resolution</td>
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<td>±0.1°C</td>
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</tr>
<tr>
<td>Sensitivity</td>
<td>±0.1°C</td>
<td>±0.1°C</td>
<td></td>
</tr>
<tr>
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<td>±0.1°C</td>
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<tr>
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**Alarm output terminal**

- Back side features two types of holes, for wall-hanging and for anchoring
- Can be used with DC voltage input or AC adaptor

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**SD Card slot**

- Easily legible LCD display has two rows of five characters.
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**Dimensions (unit: mm)**

**[Logger] ZN-THX11-SA**

- Sensor Head Connection
- Sensor Head
- Micro Switch
- Mound Cut-Out
- Mounting Hose
- Mounting Screw Holes
- Mounting Hook Holes
- Sensor Head Connector
- Power Supply
- Power Supply Socket
- Power Switch
- Built-in LAN port
- Built-in LAN port

**[Sensor Head] ZN-THS17-S**

- Power Supply Socket
- Power Switch
- Mounting Hose
- Mounting Screw Holes
- Mounting Hook Holes
- Sensor Head Connector
- Power Supply

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