

Network Connected Temp/Humidity Data Logger

TR-700W Series



Data Loggers

Measure & Record

● Temperature ● Humidity



TR-701NW / 701AW

Temperature Data Logger



TR-702NW / 702AW

Temperature and Humidity Data Logger

Monitor Temperature and Humidity Data Anytime...Anywhere!

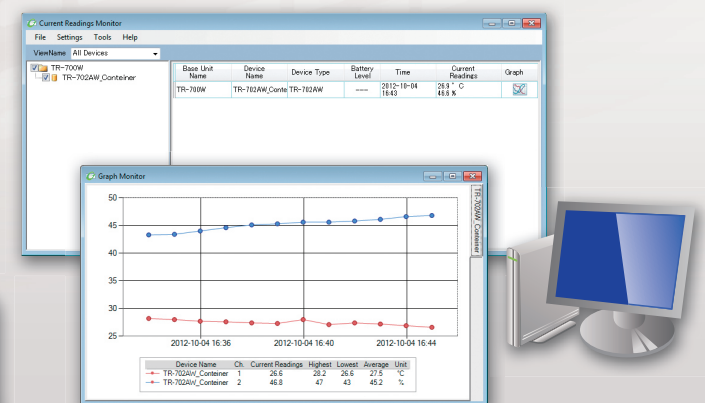
Our TR-700W Series Data Loggers are for measuring and recording temperature and humidity. They are designed to be used over a LAN network (wired or wireless) thereby allowing the user to monitor data and warnings from a PC or mobile device. Recorded data can also be periodically sent by e-mail or FTP; making it possible to check data without the need for an on site PC.

Various Monitoring

● Via Web Browser



● Via Supplied Software



Warning Device Connection



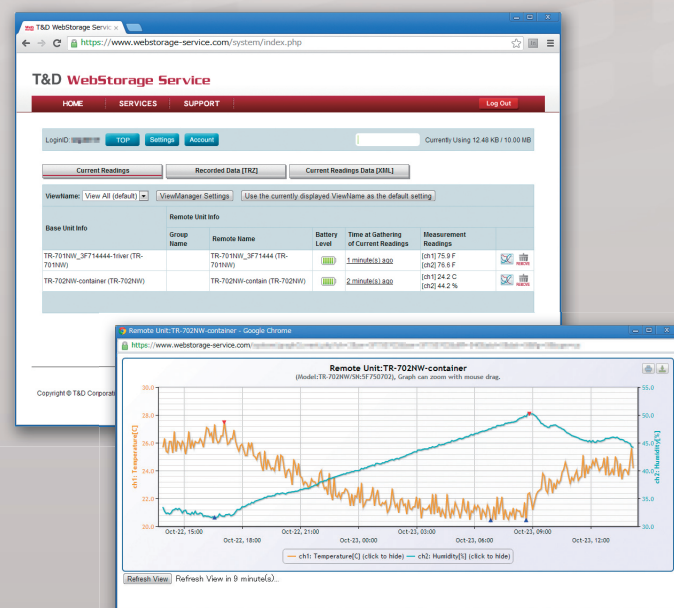
Wireless LAN

Wired LAN

Network

Free Online Storage

● T&D WebStorage Service



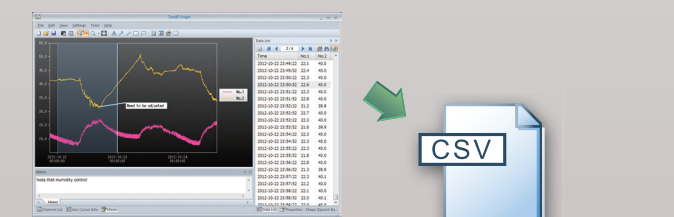
Warning Notification by E-Mail

● To a PC ● To a Mobile Device

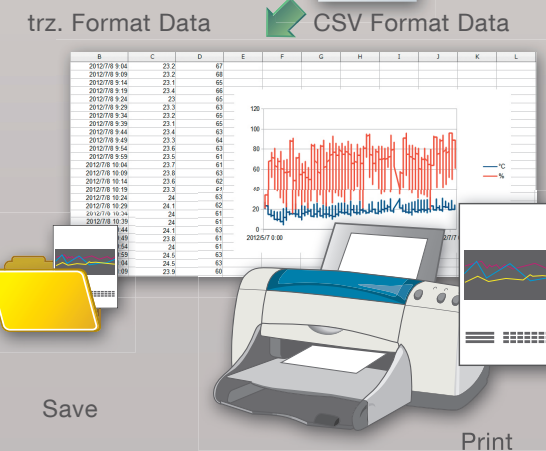
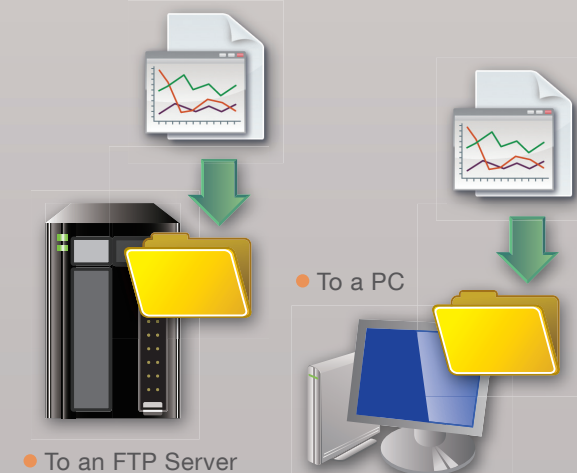
Subject : Warning Report
Warning Report [TR-701NW-container]
[Warning:Up/Lo Limit]
CH1: 30.1 C Aug-23-15:56
End of mail

- Upper or Lower Limit Exceeded
- Sensor Error
- Recovery from Warning Status

Data Export to Spreadsheet Software



Automatic Download and Transmission of Measurements



Network Connected Data Loggers

TR-701NW



TR-701AW



Temperature (2ch) Wired LAN Type

Measurement Range
 -40 to 110°C (Supplied Sensor)
 -60 to 155°C (Optional Sensors: Fluoropolymer Coated Type)
 Temperature Sensor TR-0106 Included

Temperature (2ch) Wireless LAN Type

Measurement Range
 -40 to 110°C (Supplied Sensor)
 -60 to 155°C (Optional Sensors: Fluoropolymer Coated Type)
 Temperature Sensor TR-0106 Included

TR-702NW



TR-702AW



Temperature (1ch) / Humidity (1ch) Wired LAN Type

Measurement Range
 Temperature: 0 to 55°C / Humidity: 10 to 95%RH
 Temperature/Humidity Sensor THA-3151 Included

Temperature (1ch) / Humidity (1ch) Wireless LAN Type

Measurement Range
 Temperature: 0 to 55°C / Humidity: 10 to 95%RH
 Temperature/Humidity Sensor THA-3151 Included

TR-702NW-H



TR-702AW-H



High Precision Temperature (1ch) / Humidity (1ch) Wired LAN Type

Measurement Range
 Temperature: -30 to 80°C / Humidity: 0 to 99%RH
 Temperature/Humidity Sensor HHA-3151 (high precision type) Included

High Precision Temperature (1ch) / Humidity (1ch) Wireless LAN Type

Measurement Range
 Temperature: -30 to 80°C / Humidity: 0 to 99%RH
 Temperature/Humidity Sensor HHA-3151 (high precision type) Included

- ▣ The system is designed to allow for the automatic sending of recorded data to an e-mail or FTP server without the need for a PC.
- ▣ The warning monitoring function with notification via e-mail or external contact ensures that important warnings are never missed by those nearby or far away.
- ▣ Registering with our "T&D WebStorage Service" makes it possible to view current readings on a PC or mobile device.
- ▣ Current readings can be monitored via in-company LAN.
- ▣ Being able to make and change settings via a network provides increased flexibility.

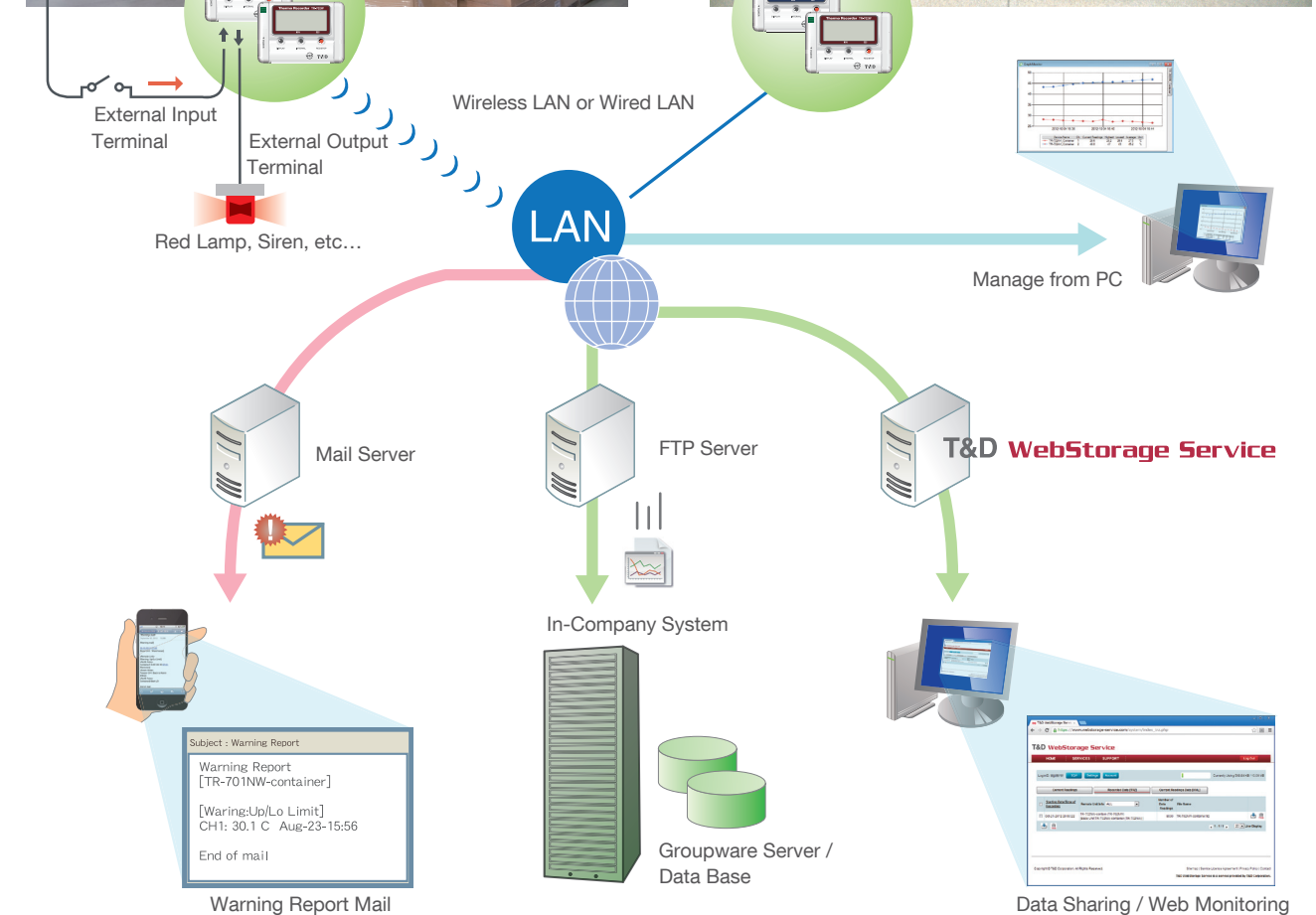
Application Examples

- For Recording and Monitoring Temperature and Humidity in Warehouses and Buildings
- For Preservation and Prevention of Deterioration of Exhibits in Museums and other Exhibit Forums
- For Collecting Temperature and Humidity Data in Factories over a Wireless LAN
- For Managing Temperature and Humidity in Server Rooms

Factory and Storage Temperature and Humidity Management



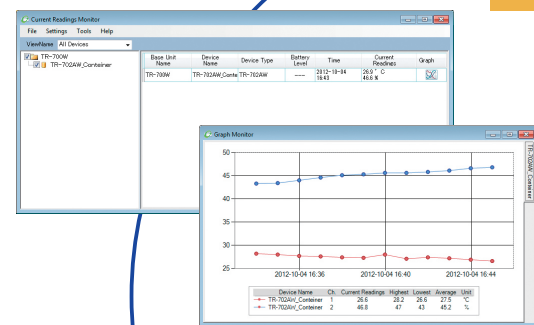
Museum and Archival Temperature and Humidity Management



Remote Monitoring / Warning Monitoring

Full Lineup of Monitoring Functions

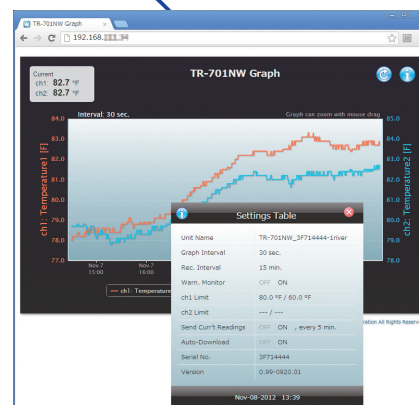
Via Supplied Software



The "Current Readings Monitor" application included in the software package allows not only for the management of current readings and graph viewing, but also provides an easy way to manage all devices connected to the network.

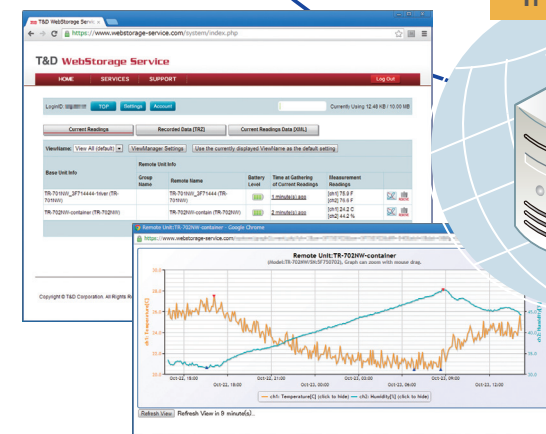
LAN

Via Web Browser



View data in graph form directly from your browser. In the browser it is possible not only view graphs and current readings, but also settings information for target TR-700W Series devices.

Via T&D WebStorage Service



Internet

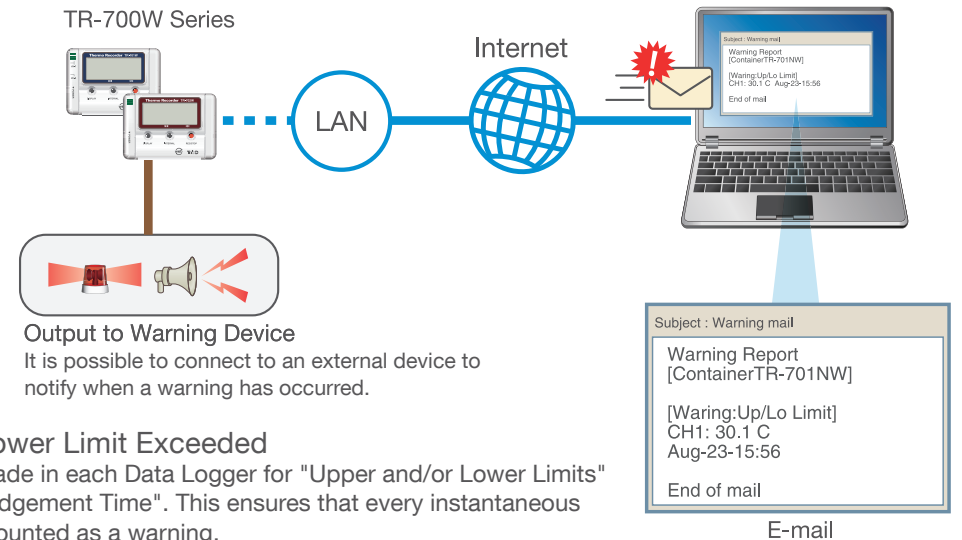
Display Current Readings Graph

Download Recorded Data



Be "In the Know Now"! Get Warning Notifications Without Delay.

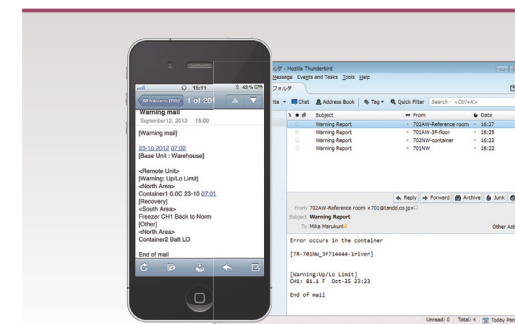
Variety of Warning Notifications provides Reliable Oversight



- Upper Limit / Lower Limit Exceeded**
Settings can be made in each Data Logger for "Upper and/or Lower Limits" and well as for "Judgement Time". This ensures that every instantaneous exceeding is not counted as a warning.
- Sensor Error**
This type of notification helps prevent loss of measurements due to sensor disconnection, malfunction or wire breakage.
- Recovery from Warning Status**
Notifications are sent to show that loggers have returned to normal.

Range of Notification Tools means "No Miss" Management

Via E-mail

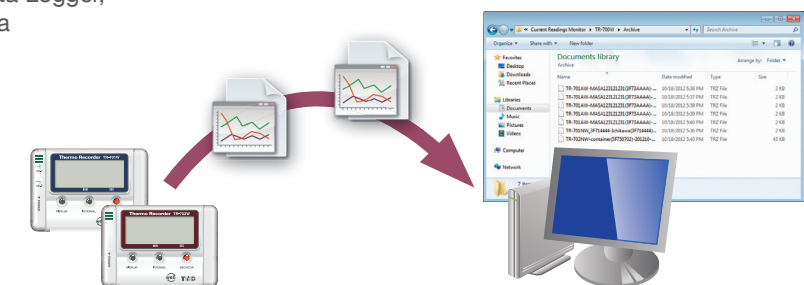


With Onsite External Alarm Device



Auto-Send and Storage of Measurements

- By making Settings in the TR-700W Series Data Logger, it is possible to periodically have recorded data automatically sent via FTP or E-mail.
- By using the supplied "Current Readings Monitor" application, it is possible to have recorded data automatically saved to a folder in your PC.



High Performance Analysis Tool: T&D Graph

Our new easy-to-use high performance software "T&D Graph" gives you all the power you need for effective management and analysis of recorded data. It can also be used in conjunction with **T&D WebStorage Service**.

Open Only the Data you Need

It is possible to specify search conditions to find and open only the data you want from all recorded data stored in a local folder or in the **T&D WebStorage Service**. The merging of multiple sets of data is also possible.

Open data directly from T&D WebStorage Service

Open only data that matches search conditions

Data is automatically merged and opened.

Analyze

Use the filtering feature to get only the data you want to view and work with. Pre-designed filtering templates are provided; or create your own.

Use the text and figure editing feature to create memos and comments within graphs.

Save / Output



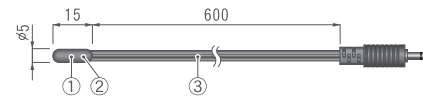
Temperature Sensor for TR-701NW / 701AW

Materials	① Thermistor ② TPE Resin ③ TPE Resin-Shielded Wire ④ M3 Crimp Terminal ⑤ Compaction Tube ⑥ Stainless Pipe (SUS304) ⑦ Stainless Pipe (SUS316)
Temperature Measurement Range	-40 to 110°C
Sensor Temperature Durability	-50 to 115°C
Temperature Measuring Accuracy	Avg. $\pm 0.3^{\circ}\text{C}$ (-20 to 80°C), Avg. $\pm 0.5^{\circ}\text{C}$ (-40 to -20/ 80 to 110°C)
Waterproof Capacity	None (Only the stainless pipe is waterproof)

TPE Resin-Shielded Sensor

TR-0106

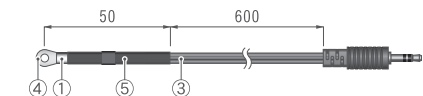
Cable Length: 0.6 m
Response Time (90%):
Approx. 190 sec. (in air)



Screw-down Sensor

TR-0206

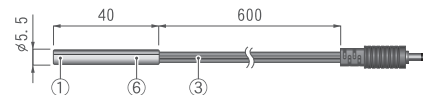
Cable Length: 0.6 m
Response Time (90%):
Approx. 210 sec. (in air)



Stainless Protection Sensor

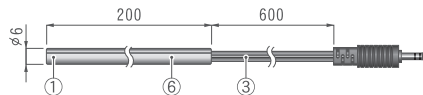
TR-0306

Cable Length: 0.6 m
Response Time (90%):
Approx. 11 sec. (in agitated water)



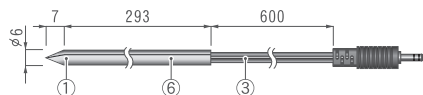
TR-0406

Cable Length: 0.6 m
Response Time (90%):
Approx. 15 sec. (in agitated water)



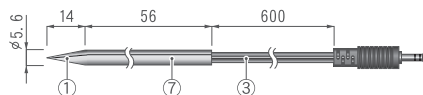
TR-0506

Cable Length: 0.6 m
Response Time (90%):
Approx. 10 sec. (in agitated water)



TR-0706

Cable Length: 0.6 m
Response Time (90%):
Approx. 11 sec. (in agitated water)



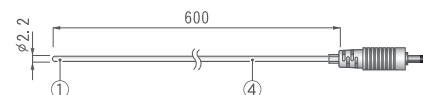
Temperature Sensor for TR-701NW / 701AW: Fluoropolymer Coated Type

Materials	① Thermistor ② Stainless pipe (SUS316) ③ Fluoropolymer Compaction Tube ④ Fluoropolymer-Coated Electrical Wire
Temperature Measurement Range	-60 to 155°C
Sensor Temperature Durability	-70 to 180°C
Temperature Measuring Accuracy	Avg. $\pm 0.5^{\circ}\text{C}$ (-40 to 80°C), Avg. $\pm 1.0^{\circ}\text{C}$ (-60 to -40°C / 80 to 100°C), Avg. $\pm 2.0^{\circ}\text{C}$ (100 to 155°C)
Waterproof Capacity	IPX7 immersion proof (sensor/cable)

Fluoropolymer Coated Sensor

TR-1106

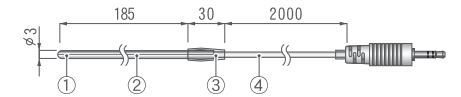
Cable Length: 0.6 m
Response Time (90%):
Approx. 80 sec. (in air)
/ Approx. 7 sec. (in agitated water)



Stainless Protection Sensor

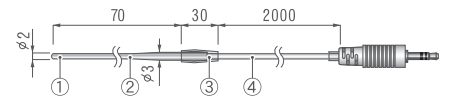
TR-1220

Cable Length: 2 m
Response Time (90%):
Approx. 150 sec. (in air)
/ Approx. 7 sec. (in agitated water)



TR-1320

Cable Length: 2 m
Response Time (90%):
Approx. 90 sec. (in air),
Approx. 3 sec. (in agitated water)



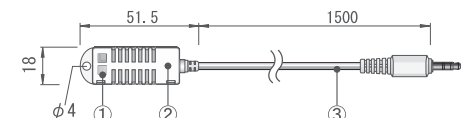
Temperature / Humidity Sensor for TR-702NW / 702AW

Temperature / Humidity Sensor

THA-3151

Cable Length: 1.5 m

Materials	① Temp/Humidity Sensor ② Polypropylene Resin ③ Vinyl Chloride Coated Electrical Wire
Conditions for Use	Do not expose to condensation, dampness, corrosive gases or organic solvents.

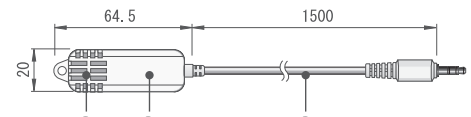


High Precision Temperature/Humidity Sensor

HHA-3151

Cable Length: 1.5 m

Materials	① Temp/Humidity Sensor ② Polycarbonate ③ Vinyl Chloride Coated Electrical Wire
Conditions for Use	Do not expose to condensation, dampness, corrosive gases or organic solvents.

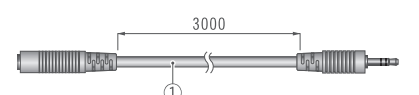


Other

Sensor Extension Cable

TR-1C30

Cable Length: 3 m



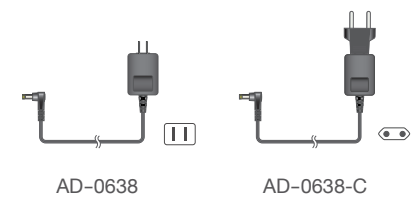
Materials	① Vinyl Chloride Coated Electrical Wire
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Memo: Only one extension cable per temperature sensor. Using an extension cable may lead to measurement errors of 0.3°C at room temperature, and 0.5°C at -50°C. Possible to use up to three extension cables per temperature/humidity sensor.

AC Adaptor

AD-0638 or AD-0638-C

Cable Length: 1.8 m
Input Voltage: AC100 to 240V 50/60Hz
Output Voltage: DC6V 500mA



T&D Website

For product information, software update and FAQ ;

<http://www.tandd.com/>



Caution regarding safety

For safe operation carefully read instructions before using the product.

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