

Network Connected Temp/Humidity Data Logger

TR-700W Series



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.

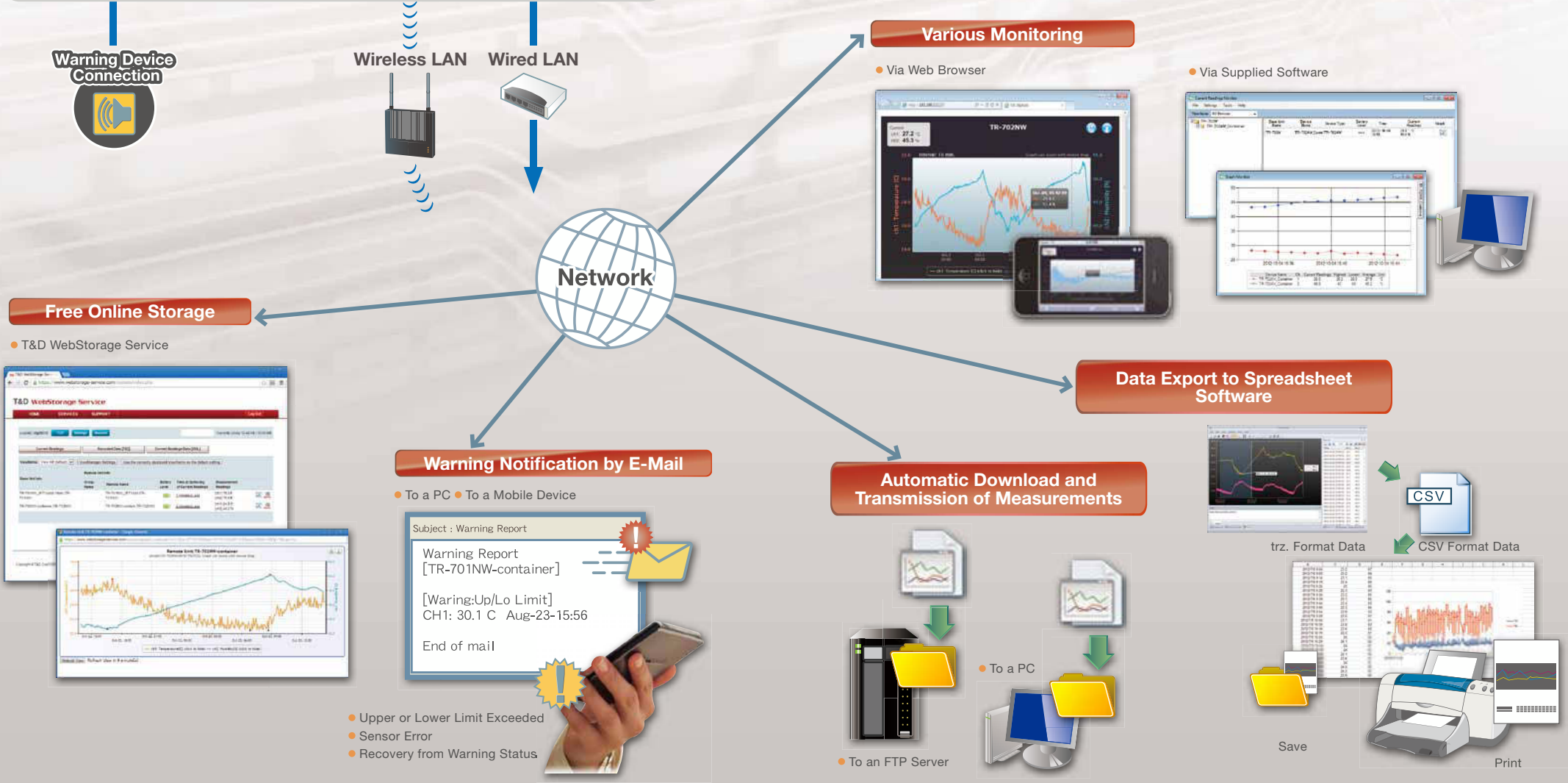
Data Loggers Measure & Record • Temperature • Humidity



TR-701NW / 701AW
Temperature Data Logger



TR-702NW / 702AW
Temperature and Humidity Data Logger



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

Network Connected Data Loggers

TR-701NW



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

TR-701AW



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



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

TR-702AW



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



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

TR-702AW-H

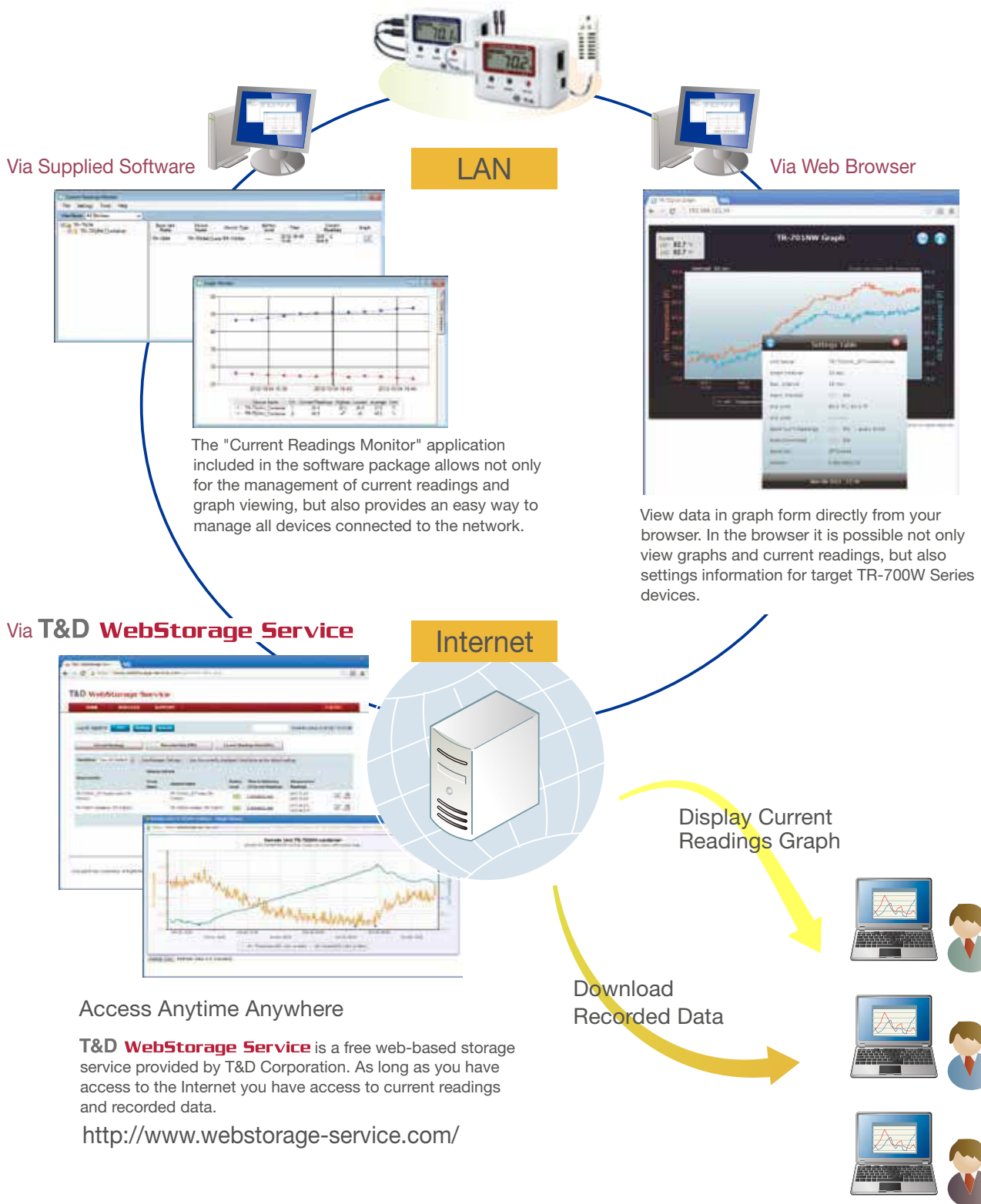


High Precision Temperature (1ch) / Humidity (1ch) Wireless LAN Type

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

Remote Monitoring / Warning Monitoring

Full Lineup of Monitoring Functions



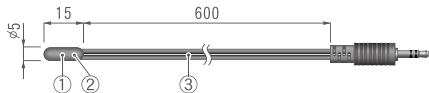
Temperature Sensor for TR-701NW / 701AW

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. ±0.3°C (-20 to 80°C), Avg. ±0.5°C (-40 to -20/ 80 to 110°C)
Waterproof Capacity	None (Only the stainless pipe is waterproof)

TPE Resin-Shielded Sensor

TR-0106

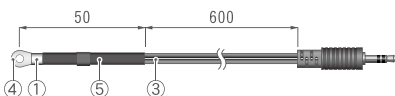
Cable Length: 0.6 m
Response Time (90%):
Approx. 190 sec. (in air)



Screw-down Sensor

TR-0206

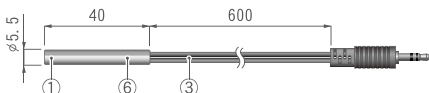
Cable Length: 0.6 m
Response Time (90%):
Approx. 210 sec. (in air)



Stainless Protection Sensor

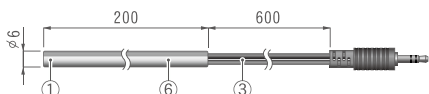
TR-0306

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



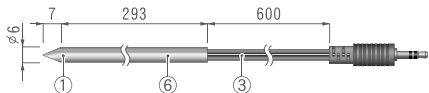
TR-0406

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



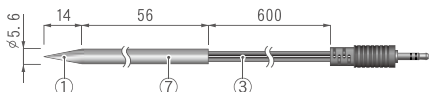
TR-0506

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)



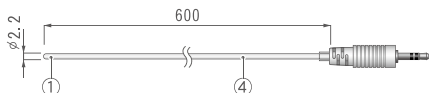
Temperature Sensor for TR-701NW / 701AW: Fluoropolymer Coated Type

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. ±0.5°C (-40 to 80°C), Avg. ±1.0°C (-60 to -40°C / 80 to 100°C), Avg. ±2.0°C (100 to 155°C)
Waterproof Capacity	IPX7 immersion proof (sensor/cable)

Fluoropolymer Coated Sensor

TR-1106

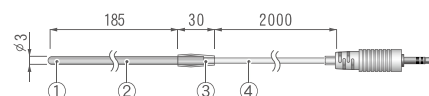
Cable Length: 0.6 m
Response Time (90%):
Approx. 80 sec. (in air)
/ Approx. 7 sec. (in agitated water)



Stainless Protection Sensor

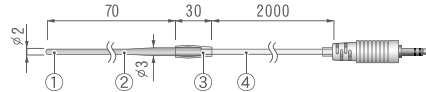
TR-1220

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)



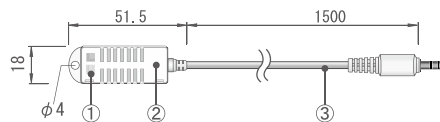
Temperature / Humidity Sensor for TR-702NW / 702AW

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.

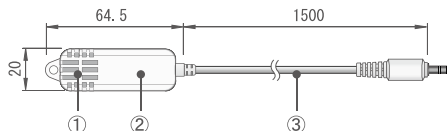


High Precision Temperature/Humidity Sensor

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.

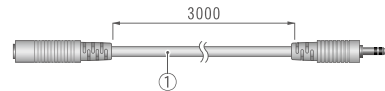


Other

Sensor Extension Cable

TR-1C30

Cable Length: 3 m



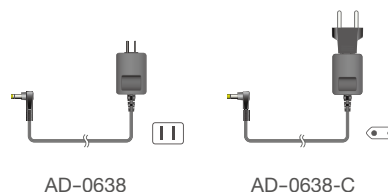
Materials	① Vinyl Chloride Coated Electrical Wire
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Memo: Only one extension cable per temperature sensor. Using an extension cable may lead to measurement errors of 0.3°C at room temperature, and 0.5°C at -50°C. Possible to use up to three extension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



TR-700W Series - Specifications

Specifications

	TR-701NW / 701AW	TR-702NW / 702AW		TR-702NW-H / 702AW-H	
Sensor (External)	TR-0106	THA-3151		HHA-3151 (High-Precision Type)	
	Thermistor	Thermistor	Polymer Resistance	Platinum Resistance	Electrostatic Capacitance
Measurement Channels	Temperature 2ch	Temperature 1ch	Humidity 1ch	Temperature 1ch	Humidity 1ch
Measurement Units	°C °F	°C °F	%RH	°C °F	%RH
Measurement Range	-40 to 110°C (Supplied Sensor) -60 to 155°C (Optional Sensor: Fluoropolymer Coated Type)	0 to 55°C	10 to 95 %RH	-30 to 80°C	0 to 99 %RH
Accuracy	Avg. ± 0.3°C [-20 to 80°C] Avg. ± 0.5°C [-40 to -20 / 80 to 110°C]	±0.5°C	±5%RH [at 25°C, 50%RH]	±0.3°C [0 to 50°C] ±0.5°C [all other temperatures]	±2.5%RH [at 25°C, 10 to 85%RH] ±4.0%RH [at 25°C, 0 to 10% or 85 to 99%RH] At temperatures other than 25°C and ≥ 0°C, add ±0.1%RH per degree of difference from 25. Humidity Hysteresis: ±1.5%RH or lower *1
Measurement Resolution	0.1°C	0.1°C	1%RH	0.1°C	0.1%RH
Responsiveness	Thermal Time Constant: Approx. 75 sec. Response Time (90%): Approx. 190 sec.	Response Time (90%): Approx. 7 min.		Response Time (90%): Approx. 7 min.	Response Time (90%): Approx. 20 sec.
Logging Capacity	8,000 data sets (One data set consists of readings for all channels in that type of unit.)				
Recording Interval	Select from 15 choices: 1, 2, 5, 10, 15, 20, 30 sec. or 1, 2, 5, 10, 15, 20, 30, 60 min.				
Recording Mode	Endless (Overwrite oldest data when capacity is full)				
LCD Display Items	Measurements (alternating display), Power Warning Mark, etc.				
Communication Interfaces	- TR-701NW/702NW: Wired LAN RJ45 Connector 100 Base-TX / 10 Base-T AutoMDI / MDI-X - TR-701AW/702AW: Wireless LAN Internal wireless LAN antenna IEEE 802.11b / g WEP / WPA-TKIP / WPA2-AES - USB Communication (For Setup)				
External Output Terminal	<Alarm Output Terminal> Voltage when OFF: AC/DC less than 50V Current when ON: less than 0.1 A Resistance when ON: about 35Ω				
Communications Protocol	HTTP, SMTP (POP before SMTP, SMTP-AUTH <LOGIN>), FTP, SNMP, DHCP, DNS				
Power	Main Power: AC Adaptor (AD-0638 or AD-0638-C) / Backup Power: Coin Type Lithium Battery (CR-2032) *2				
Data Backup *3	Approx. 3 months (backup battery only without AC adaptor)				
Dimensions	H 55 x W 78 x D 37 mm				
Weight	TR-701NW / 702NW / 702NW-H : Approx. 82 g TR-701AW / 702AW / 702AW-H : Approx. 80 g (including battery, excluding sensor)				
Operating Environment	Temperature: -10 to 60°C / Humidity: 90%RH or less (no condensation)				
Accessories	Temperature Sensor (TR-0106) x 2	Temperature/Humidity Sensor (THA-3151) x 1		High Precision Temperature/Humidity Sensor (HHA-3151) x 1	
Common Accessories	USB Communication Cable (US-15C), LAN Cable (LN-20W: For TR-701NW/702NW only), AC Adaptor (AD-0638 or AD-0638-C), Coin Type Lithium Battery (CR-2032), Software (CD-ROM), Manual Set (Warranty Included)				
Software	TR-700W for Windows				
Compatible OS *4 *5	Microsoft Windows 8 32/64 bit, English Microsoft Windows 7 32/64 bit, English Microsoft Windows Vista 32 bit (SP1 or later), English Microsoft Windows XP 32 bit (SP3 or later) English				

*1: When used in environments where temperature and humidity are over the values of 50°C 75%, 60°C 50%, 70°C 35%, and 80°C 25%, sensor hysteresis may fluctuate by values greater than ±1.5%RH. Under certain circumstances, it may take some time to return to normal measurement capability.

*2: The supplied lithium battery is for data backup during power failure and for emergency use only. Note that network communication cannot occur when using the battery only.

*3: Battery life varies depending upon the ambient temperature and the battery performance. All estimates are based on operations carried out with a new battery and are in no way a guarantee of actual battery life.

*4: For installation, it is necessary to have Administrator (Computer Administrator) rights.

*5: If you are using Windows 8, please note that our software is designed to be used in "Desktop" mode only.

The specifications listed above are subject to change without notice.