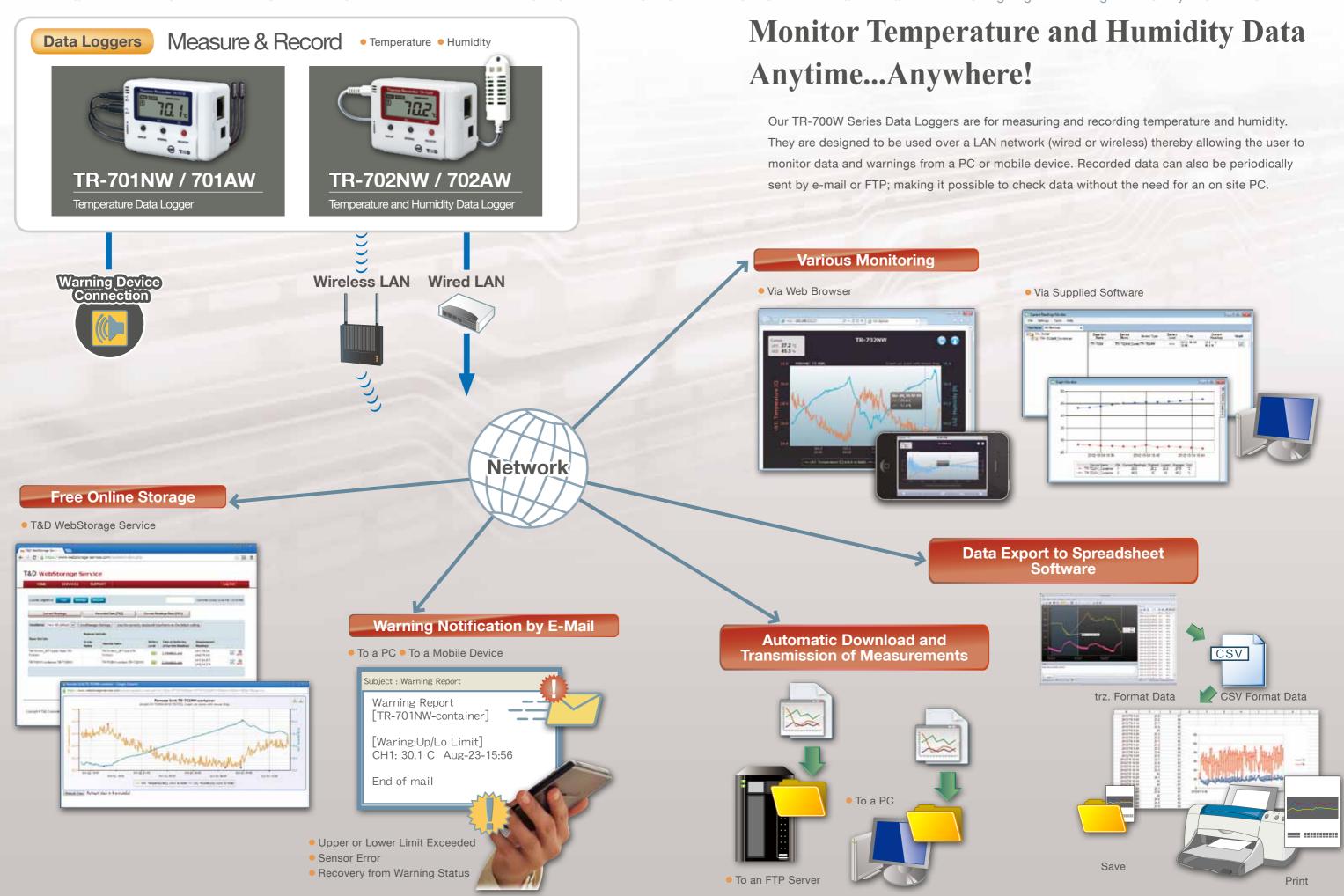
Network Connected Temp/Humidity Data Logger

TR-700W Series





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-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-702NW-H





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

Temperature: -30 to 80°C / Humidity: 0 to 99%RH

Temperature/Humidity Sensor HHA-3151 (high precision type) 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-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-702AW-H







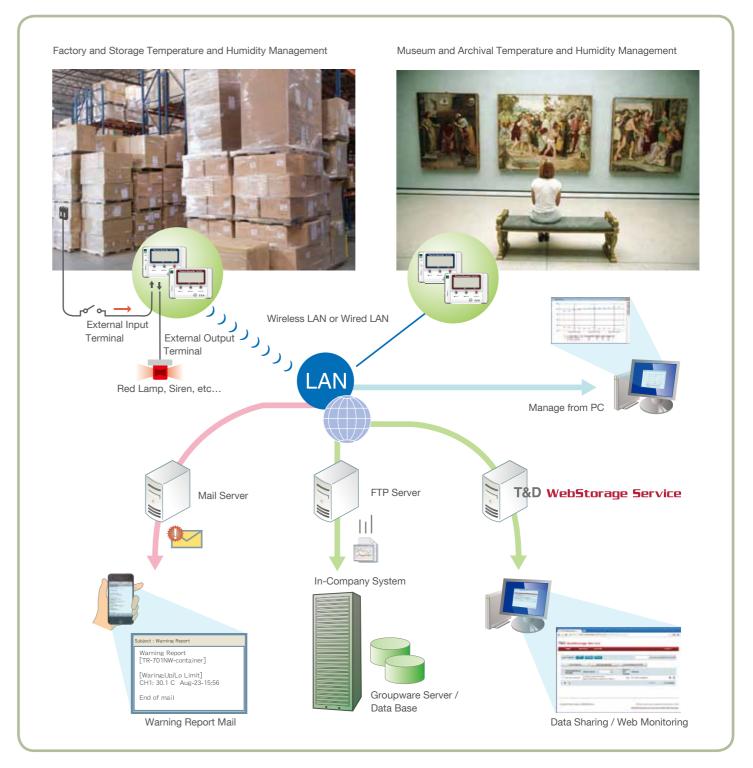
High Precision Temperature (1ch) / Humidity (1ch) Wireless LAN Type

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

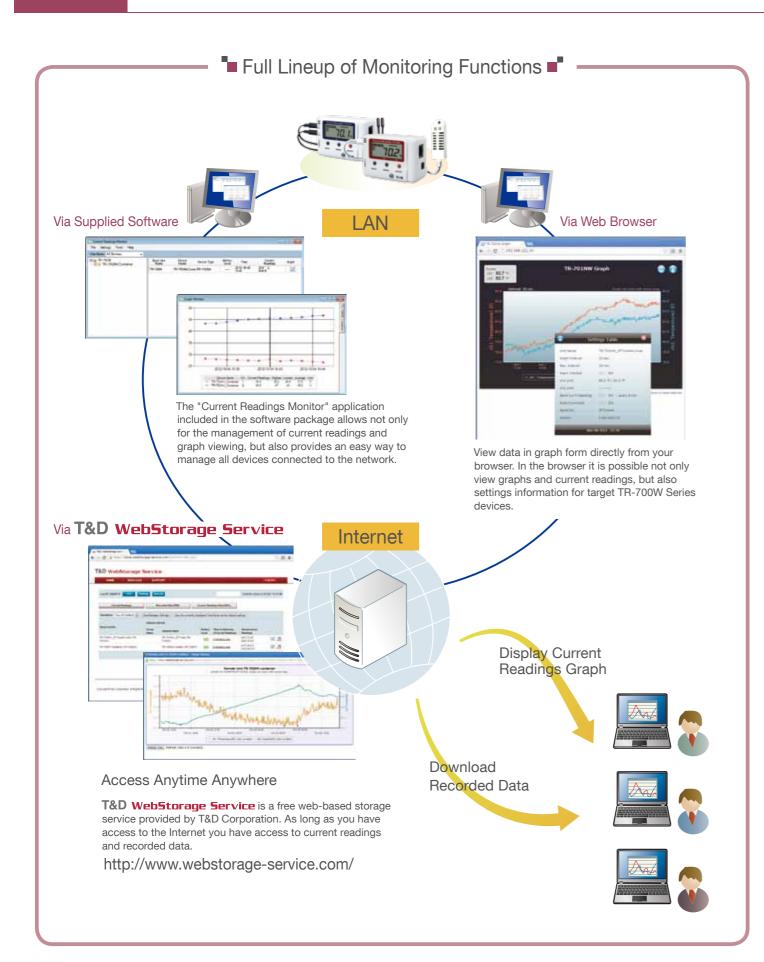
- The system is designed to allow for the automatic sending of recorded data to an e-mail or FTP server without the need for a PC.
- The warning monitoring function with notification via e-mail or external contact ensures that important warnings are never missed by those nearby or far away.
- ☐ Registering 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.

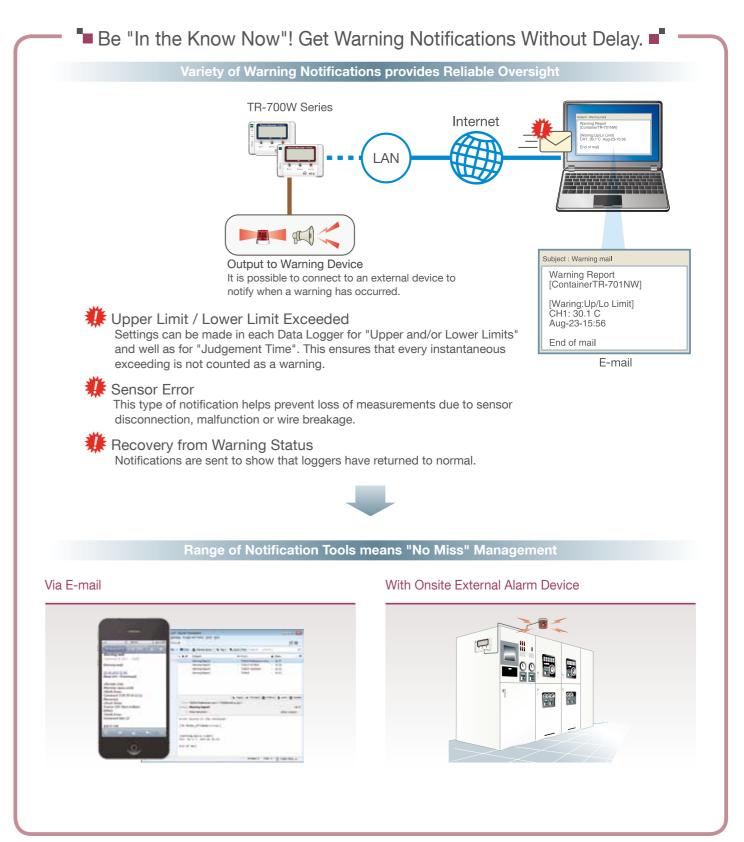
Application Examples

- 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



Remote Monitoring / Warning Monitoring





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 useing 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

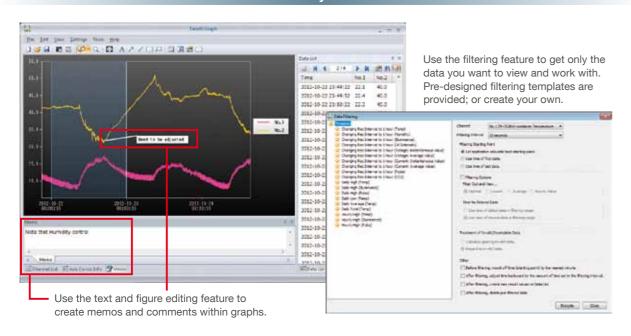
Our new easy-to-use high performance software "T&D Graph" gives you all the power you need for effective management and analysis of recorded data. It can also be used in conjunction with **T&D WebStorage Service**.

Open Only the Data you Need

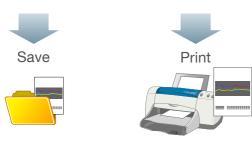
It is possible to specify search conditions to find and open only the data you want from all recorded data stored in a local folder or in the **T&D WebStorage Service**. The merging of multiple sets of data is also possible.



Analyze



Save / Output







Temperature Sensor for TR-701NW / 701AW

	1 Thermistor 2 TPE Resin 3 TPE Resin-Shielded Wire				
	M3 Crimp Terminal				
	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

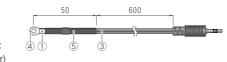
Cable Length: 0.6 m Response Time (90%): Approx. 190 sec. (in air)



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

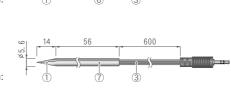
Cable Length: 0.6 m Response Time (90%): Approx. 15 sec. (in agitated water)

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)



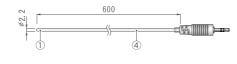
Temperature Sensor for TR-701NW / 701AW: Fluoropolymer Coated Type

Materials	Thermistor ② Stainless pipe (SUS316) ③ Fluoropolymer Compaction Tube ④ Fluoropolymer-Coated Electrical Wire		
	Compaction tube (4) Fluoropolymer-Coated Electrical Wife		
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

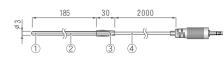
Cable Length: 0.6 m Response Time (90%): Approx. 80 sec. (in air) / Approx. 7 sec. (in agitated water)



Stainless Protection Sensor

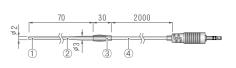
TR-1220

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

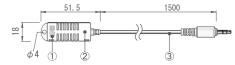
Cable Length: 1.5 m

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

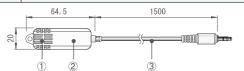
HHA-3151

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.

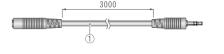


Other

Sensor Extension Cable

TR-1C30

Cable Length: 3 m



Materials

① Vinyl Chloride Coated Electrical Wire

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.

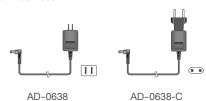
AC Adaptor

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 $M \cdot E \cdot M \cdot O$

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</alarm>					
Communications Protocol	HTTP, SMTP (POP before SMTP, SMTP-AUTH <login>), FTP, SNTP, DHCP, DNS</login>					
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 × W 78 ×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) (Compu

T&D Website

For product information, software update and FAQ;





Tot sale operation carefully read instructions before using the product.

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