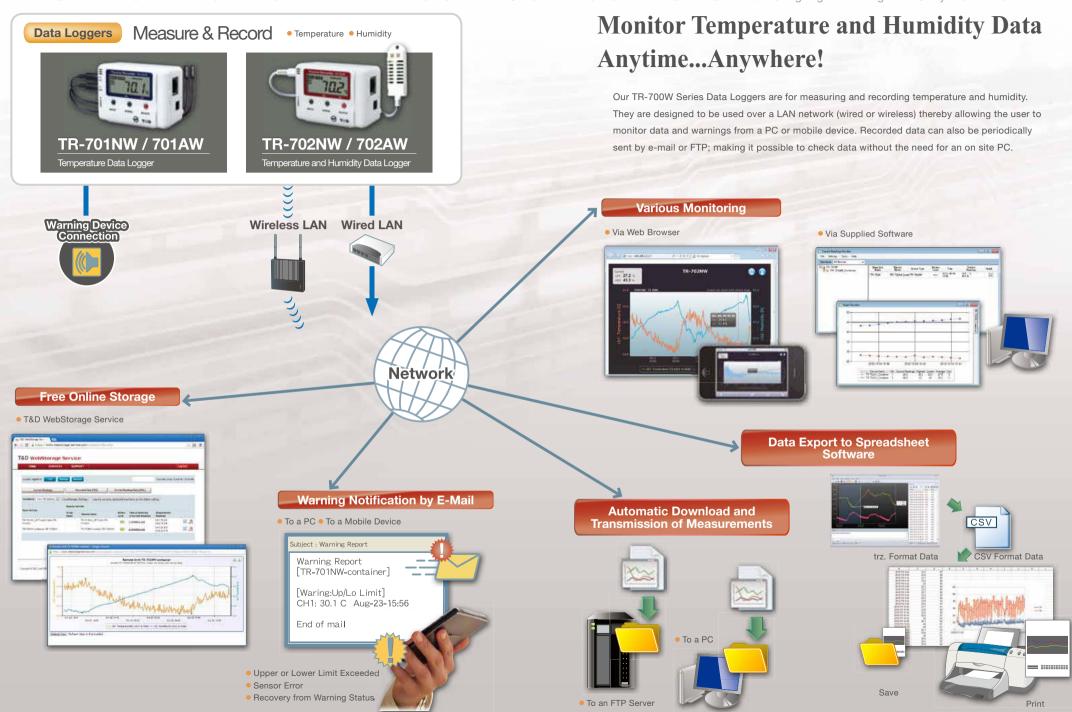
# Network Connected Temp/Humidity Data Logger

# TR-700W Series





# Network Connected Data Loggers











## 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-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

















## 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

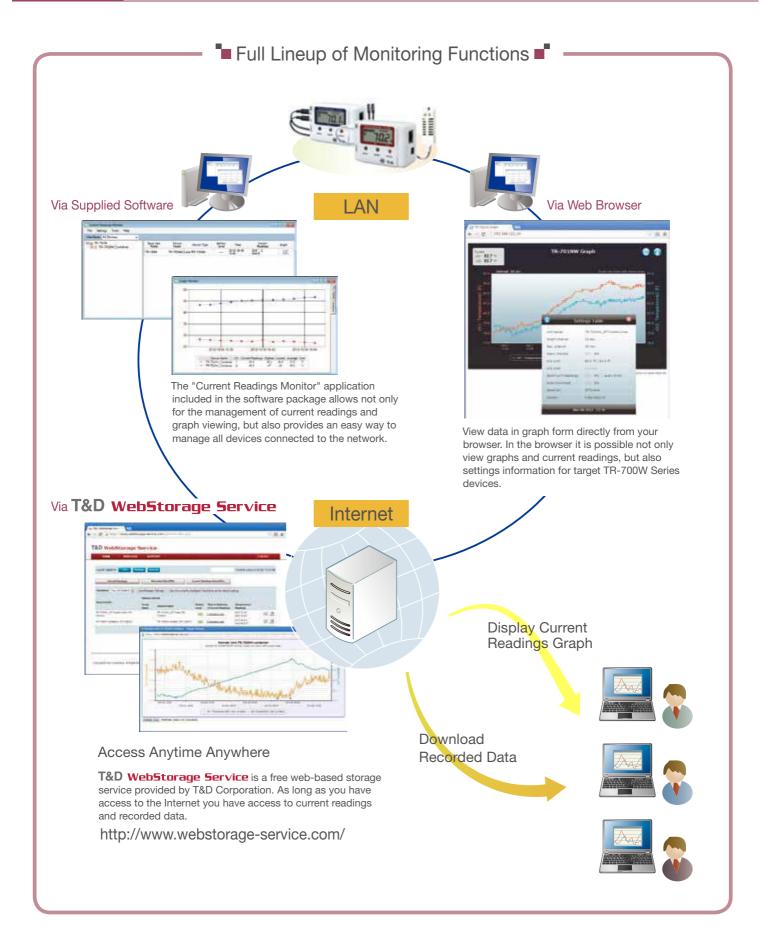


#### High Precision Temperature (1ch) / Humidity (1ch) Wireless LAN Type

Measurement Range

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

# Remote Monitoring / Warning Monitoring



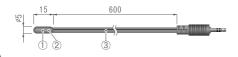
## Temperature Sensor for TR-701NW / 701AW

	·		
Materials	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

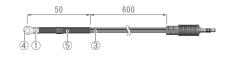
Cable Length: 0.6 m Response Time (90%): Approx. 190 sec. (in air)



#### 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

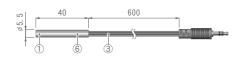
Cable Length: 0.6 m Response Time (90%): Approx. 15 sec. (in agitated water)

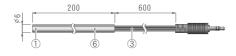
#### TR-0506

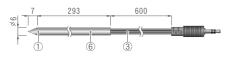
Cable Length: 0.6 m Response Time (90%): Approx. 10 sec. (in agitated water)

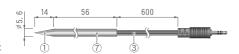
## TR-0706

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









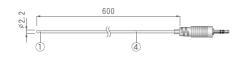
# Temperature Sensor for TR-701NW / 701AW: Fluoropolymer Coated Type

Materials	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

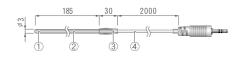
Cable Length: 0.6 m Response Time (90%): Approx. 80 sec. (in air) / Approx. 7 sec. (in agitated water)



#### **Stainless Protection Sensor**

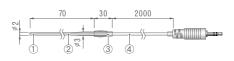
#### TR-1220

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)



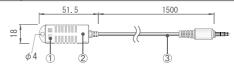
## Temperature / Humidity Sensor for TR-702NW / 702AW

## **Temperature / Humidity Sensor**

#### THA-3151

Cable Length: 1.5 m

0	
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.

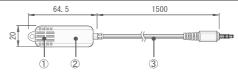


#### **High Precision Temperature/Humidity Sensor**

#### HHA-3151

Cable Length: 1.5 m

Cable Longin. No m				
Materials	① Temp/Humidity Sensor ② Polycarbonate ③ Vinyl Chloride Coated			
	Electrical Wire			
	Do not expose to condensation, dampness, corrosive gases or organic			
	solvents.			

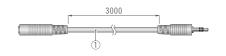


#### Other

## **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.

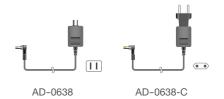
Possible to use up to three extension cables per temperature/humidity sensor.

#### **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**

## Specifications

	TR-701NW / 701AW	TR-702	TR-702NW / 702AW		TR-702NW-H / 702AW-H		
Sensor (External)	TR-0106	TI	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% of 85 to 99%RH] At temperatures other than 25' 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	e data set consists of reading	s for all channels in that type of u	nit.)			
Recording Interval	Select from 15 choice	ces: 1, 2, 5, 10, 15, 20, 30 sec	c. 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 <math>35\Omega</math></alarm>						
Communications Protocol	HTTP, SMTP (POP b	HTTP, SMTP (POP before SMTP, SMTP-AUTH <login>), FTP, SNTP, DHCP, DNS</login>					
Power	Main Power: AC Ad	aptor (AD-0638 or AD-0638-	C) / Backup Power: Coin Type Lith	nium Battery (CR-2032) *2			
Data Backup *3	Approx. 3 months (b	ackup battery only without A	C 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/Humic	lity Sensor (THA-3151) x 1	High Precision Temperature/F	lumidity 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						

<sup>1:</sup> 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.

1: 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.

2: 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.