Thermo Recorder

TR-7nw series

Wired LAN Connection
for
Stable, Reliable, and Trustworthy
Communication

TR-7nw series

TR-71nw
Temperature 2ch
Wired LAN, USB

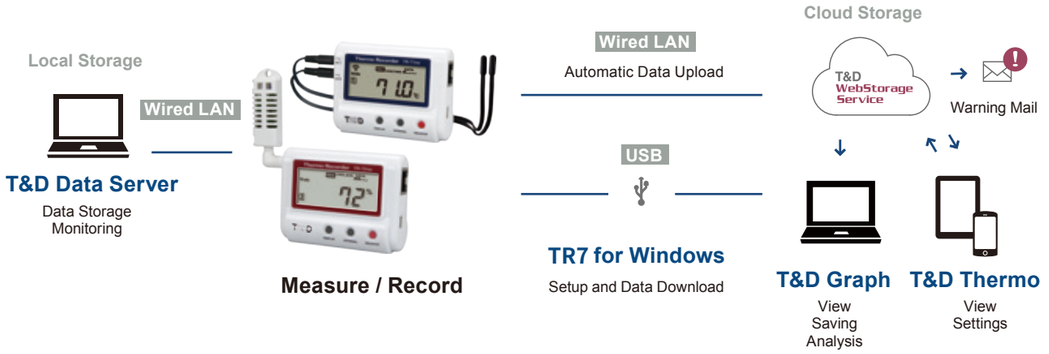
TR-72nw
Temperature 1ch / Humidity 1ch
Wired LAN, USB

TR-72nw-S
Temperature 1ch / Humidity 1ch
High Precision Type
Wired LAN, USB

TR-75nw
Temperature 2ch
Thermocouple（K, J, T, E, S, R）
Wired LAN, USB
※ Sensors not included

Data transmission via wired LAN ensures **stable** and **reliable** transfer to T&D's **cloud service** (**T&D WebStorage Service**) where your important data can then be accessed from **anywhere** at **anytime**. **Simple** direct USB connection to PC also allows for easy downloading and viewing of data, as well as, total control over logger settings.

Best of all T&D software and cloud storage service is **FREE** of charge!



T&D Data Server

Local server application for receiving, storing, and monitoring data on intranet.

TR7 for Windows

PC software for making/changing settings and data download via USB.

T&D Graph

High-performance graph tool that can read large numbers of data files into the same graph, merge data, and save data in various ways.

Compatible with T&D WebStorage Service / T&D Data Server.

T&D Thermo (iOS / Android)

Mobile application for viewing data in a graph and checking / changing settings via T&D WebStorage Service.
Also supports alarm push notifications.

Specification		TR-71nw	TR-72nw		TR-72nw-S		TR-75nw
Measurement Channels		Temperature 2ch	Temperature 1ch, Humidity 1ch		Temperature 1ch, Humidity 1ch		Temperature 2ch
Sensor		Thermistor	Thermistor	Polymer Resistance	Thermistor	Polymer Resistance	Thermocouple: Type K, J, T, E, S, R (*1)
Measurement Units		°C, °F	°C, °F	%RH	°C, °F	%RH	°C, °F
Measurement Range	Internal Sensor	-10 to 60°C (*2)	-	-	-	-	-
	External Sensor	-40 to 110°C (Supplied Sensor) -60 to 155°C (Optional Sensor: Fluoropolymer Coated Type)	0 to 55 °C	10 to 95 %RH	-25 to 70 °C	0 to 99 %RH (*3)	K -199 to 1370 °C J -199 to 1200 °C T -199 to 400 °C E -199 to 1000 °C S - 50 to 1760 °C R - 50 to 1760 °C
Accuracy		Avg. ± 0.3°C at -20 to 80°C Avg. ± 0.5°C at -40 to -20°C, 80 to 110°C	±0.5 °C	±5 %RH at 25 °C, 50 %RH	±0.3°C at 10 to 40 °C ±0.5°C all other temperatures	±2.5 %RH at 15 to 35 °C, 30 to 80 %RH	Thermocouple Measurement (Sensor inaccuracies not included) Type K, J, T, E : ±(0.5 °C + 0.3 % of reading) at -100°C or above Type S, R : ±(1.5 °C + 0.3 % of reading) at 100°C or above Cold Junction Compensation ±0.5℃ at 10 to 40 °C ±0.8℃ other temperatures within the operating environment of the logger
Measurement Resolution		0.1°C	0.1 °C	1 %RH	0.1 °C	0.1 %RH	Type K, J, T, E: 0.1°C Type S, R: Approx. 0.2°C
Responsiveness		Response Time (90%): Approx. 190 sec.	Response Time (90%): Approx. 7 min.		Response Time (90%): Approx. 7 min.		-
Logging Capacity		8,000 data sets (One data set consists of readings for all channels)					
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) or One Time (Stop recording when capacity is full)					
LCD Display Items		Measurements (fixed or alternating display), Battery Warning Mark, etc.					
Auto-upload Interval		Select from 15 choices: OFF (No auto-upload), 1, 2, 5, 10, 15, 20, 30 min. or 1, 2, 3, 4, 6, 12, 24 hrs.					
Communication Interfaces		**Wired LAN Communication** 100BASE-TX/10BASE-T (RJ45 Connector) Protocol : HTTP(*4), DHCP, DNS **USB Communication** USB 2.0 (Mini-B connector)					
Power (*5)		Battery: AA Alkaline LR6 x 2, AA Ni-MH x 2 External: USB Bus 5V 200mA, AC Adaptor AD-05A2 or AD-05C2, PoE IEEE 802.3af					
Battery Life (*6)		Approx. 10 days to 1.5 years (depends on Auto-upload interval)					Approx. 10 days to 1 year (depends on Auto-upload interval)
Dimensions		H 58 mm x W 78 mm x D 26 mm					
Weight		Approx. 55 g					
Operating Environment		Temperature: -10 to 60°C(*7) , Humidity: 90 %RH or less (no condensation)					
Accessories		Temperature Sensor TR-0106 x 2	Temperature-Humidity Sensor THA-3001 x 1		High Precision Temperature-Humidity Sensor SHA-3151 x 1		(Sensor not provided)
		AA Alkaline Battery LR6 x 2, Registration Code Label, USB Mini-B Cable US-15C, Manual Set (Warranty Included)					
Software (*8)		**PC Software (Windows)** TR7 for Windows, T&D Graph, T&D Data Server **Mobile Application (iOS, Android)** T&D Thermo					

*1:Compatible wire sizes are as follows. Single Wire : Ø0.32 to Ø0.65 mm (AWG 28 - 22), Twisted Wire : 0.08 to 0.32 mm2 (AWG 28 - 22), Ø0.12 mm or more in diameter, Stripping Length : 9 to 10 mm
*2:When Auto Upload is used frequently, the measurement of the internal sensor may rise by around 0.3°C.When using external power, the data logger itself generates heat and the internal sensor will report a temperature much higher than ambient; we recommend using an external temperature sensor in this case.
*3:When continually used in environments with temperatures above 60°C, accuracy of humidity measurements will decrease over time. Also, humidity cannot be measured at temperatures below -20°C
*4:HTTP client. Proxy supported.
*5:When using external power, the internal temperature of the logger rises.
*6:Battery life varies depending upon multiple factors including frequency of communication, LAN environment, ambient temperature, recording interval, and 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.
*7:-10 to 45°C when using external power.
*8: Software on CD-ROM is not supplied with the product. Free software download and information on OS compatibility is available on the Software page of our website at tandd.com/software/.

tandd.com

T&D Corporation

817-1 Shimadachi, Matsumoto, Nagano Japan
390-0852
Please send your inquiries to:
E-mail : sales@tandd.com
Facsimile : (+81) 263-40-3152

VEGETABLE OIL INK

2022.02 16308280001 (1st Edition)