



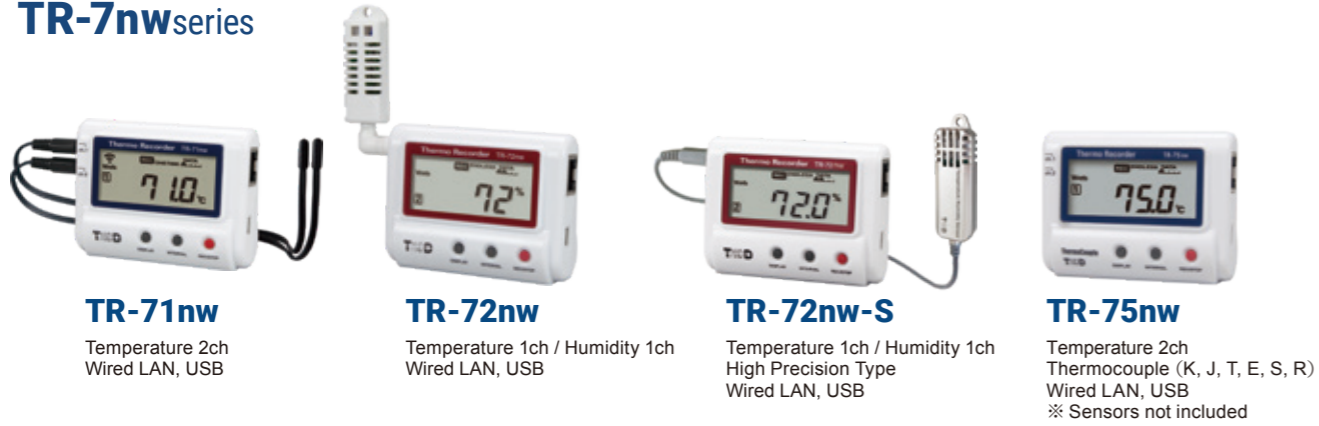
Thermo Recorder

# TR-7nw series

Wired LAN Connection  
for  
Stable, Reliable, and Trustworthy  
Communication



## TR-7nwseries



**TR-71nw**

Temperature 2ch  
Wired LAN, USB

**TR-72nw**

Temperature 1ch / Humidity 1ch  
Wired LAN, USB

**TR-72nw-S**

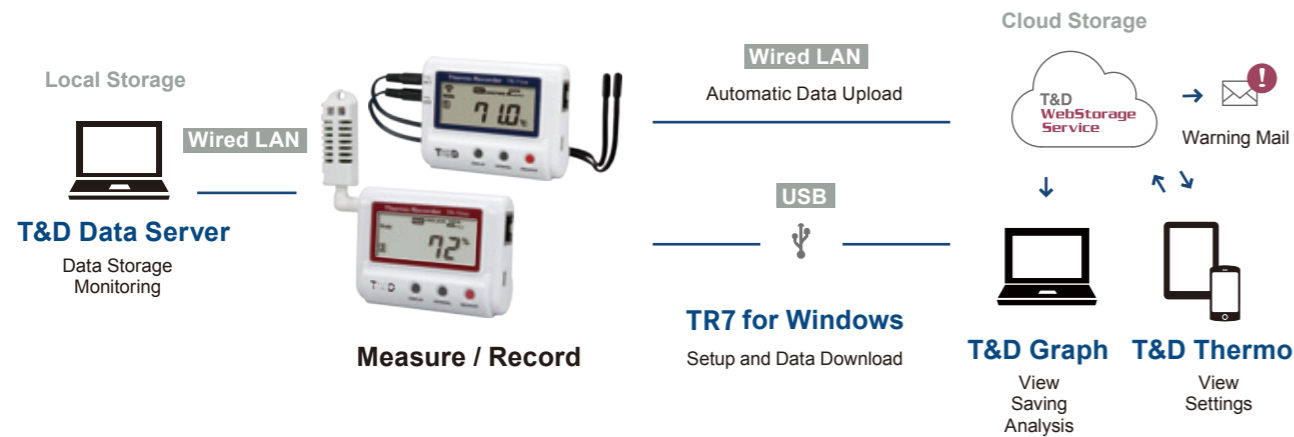
Temperature 1ch / Humidity 1ch  
High Precision Type  
Wired LAN, USB

**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)<br>-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)  |
| Accuracy                 | Avg. ± 0.3°C at -20 to 80°C<br>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<br>±0.5°C all other temperatures | ±2.5 %RH at 15 to 35 °C, 30 to 80 %RH | Thermocouple Measurement (Sensor inaccuracies not included)<br>Type K, J, T, E : ±(0.5 °C + 0.3 % of reading) at -100°C or above<br>Type S, R : ±(1.5 °C + 0.3 % of reading) at 100°C or above<br>Cold Junction Compensation ±0.5°C at 10 to 40 °C ±0.8°C 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<br>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 | <b>Wired LAN Communication</b><br>100BASE-TX/10BASE-T (RJ45 Connector)<br>Protocol : HTTP(*4), DHCP, DNS<br><b>USB Communication</b><br>USB 2.0 (Mini-B connector) |   |   |  |                                       |   |
| Power (*5)               | Battery: AA Alkaline LR6 x 2, AA Ni-MH x 2<br>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)            | <b>PC Software (Windows)</b><br>TR7 for Windows, T&D Graph, T&D Data Server<br><b>Mobile Application (iOS, Android)</b><br>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/](http://tandd.com/software/).

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