Data Logger for Cloud Storage

TR-7wf/nw Series Features and Specs

Measurement Items
Temperature
Humidity

Data Collection

LAN / USB Connection

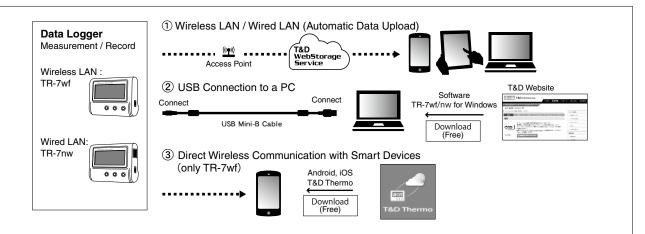
Direct Communication

with Smart phone/Tablet

Data Access
T&D WebStorage Service,
Intranet, Local PC

Warning Notification
E-mail

Temperature and Humidity Data Logger made for the Cloud. Recorded data can automatically be uploaded via wireless or wired LAN to our free cloud service "T&D WebStorage Service" where it can be accessed from anywhere you have a connection. It is also possible to connect directly to a PC via USB and the TR-7wf allows for direct wireless communication with smart phones and other portable devices.



1 Automatically Upload Recorded Data via LAN

Automatically send recorded data via LAN connection to "T&D WebStorage Service". This feature makes it possible to access from and share data with any net connected device.

* T&D WebStorage Service is a free cloudbased service provided by T&D Corporation.

② Directly Communicate with Smart Devices

By installing our specialized app it is possible to make settings changes from and download recorded data directly to your smarat device. It is also possible to view graphs and monitor in real time.

③ Easy USB Communication

You can easily start recording by simply connecting via USB to your PC without making LAN settings.

Collecting data and monitoring can also be easily carried out from your PC.

| Model | Measurement Items | Measurement Range | Notes | |
|------------------|------------------------------------|-------------------------------|--|--|
| TR-71wf / nw | Temperature 2ch | −60 to 155 °C | The measurement range depends on the sensor type. Wide selection of optional sensors available | |
| TR-72wf / nw | Temperature / Humidity 1ch Each | 0 to 55 °C / 10 to 95%RH | | |
| TR-72wf-S / nw-S | Temperature / Humidity 1ch Each | –30 to 80 °C / 0 \sim 99%RH | The supplied sensor for the S model provides higher accuracy to ±2.5%RH | |
| TR-75wf / nw | Temperature 2ch (Thermocouple) | −199 ~ 1760 °C | For use with Thermocouple Sensor Types: K, J, T, E, S, R | |

Sending Warning Report Mails

Upon receiving warning information from the target device T&D WebStorage Service will send out a warning e-mail to the set recipients

1.5 Years of Operation with just Two Batteries

With just two AA batteries the logger can be used for about 1.5 years.

Large Logging Capacity: 8000 Data Sets

It is possible to record up to 8000 sets of data measurements in two separate channels. That means at a recording interval of 60 minutes you can keep on recording for one year before reaching capacity.

Easy Operation via Front Buttons

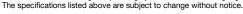
It is possible to start and stop recording, change recording interval, and make the auto-upload setting from the buttons on the face of the logger.



^{*} Actual battery life is not guaranteed.

TR-7wf/nw Series - Specifications

| TR-71wf / 71nw TR-72wf / 72nw | | TR-72wf-S / 72nw-S | | TR-75wf / 75nw | | | |
|--|---|---|--|---|---|--|--|
| Temperature 2ch (Internal 1ch / External 2ch) | Temperature 1ch, Humidity 1ch (External) | | Temperature 1ch, Humidity 1ch (External) | | Temperature 2ch (External) | | |
| or | Thermistor | Polymer Resis- tance | Thermistor | Polymer Resis- tance | Thermocouple: Type K, J, T, E, S, R (*1) | | |
| | °C, °F | %RH | °C, °F | %RH | °C, °F | | |
| C (*2) | - | - | - | - | - | | |
| ensor) | 0 to 55 °C | 10 to 95 %RH | −25 to 70 °C | 0 to 99 %RH (*3) | K -199 to 1370 °C E -199 to 1000 °C J -199 to 1200 °C S -50 to 1760 °C T -199 to 400 °C R -50 to 1760 °C | | |
| 00°C 00°C 20°C 10°C | ±0.5°C | ±5 %RH at 25°C, 50%RH | ±0.3°C at 10 to 40 °C ±0.5°C all other tempera- tures | ±2.5 %RH at 15 to 35 °C, 30 to 80 %RH | Thermocouple Measurement (Sensor inaccuracies not included) K, J, T, E: ±(0.5 °C + 0.3 % of reading) at -100°C or above S, R: ±(1.5 °C + 0.3 % of reading) at 100°C or above Cold Junction Compensation ±0.5 °C at 10 to 40 °C ±0.8 °C other temperatures within the operatir environment of the logger | | |
| : | 0.1°C | 1 %RH | 0.1 °C | 0.1 %RH | K, J, T, E: 0.1 °C S, R: approx. 0.2 °C | | |
| 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. 7 min. | | | | - | | | |
| fixed or alt | ernating display | Battery Warning M | lark etc | | | | |
| Measurements (fixed or alternating display), Battery Warning Mark, etc. 8,000 data sets (One data set consists of readings for all channels in that type of unit.) | | | | | | | |
| Select from 15 choices: 1, 2, 5, 10, 15, 20, 30 sec. or 1, 2, 5, 10, 15, 20, 30, 60 min. | | | | | | | |
| | | | | | | | |
| Endless (Overwrite oldest data when capacity is full) or One Time (Stop recording when capacity is full) 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. | | | | | | | |
| | | tandard: IEEE 802.1 | | 3, 4, 0, 12, 24 1115. | | | |
| ommunicatio | S W on for TR-7nw: 10 P | ecurity (*4): WEP (6) /PS 2.0: Push Butto DOBASE-TX/10BASE rotocol: HTTP (*5), JSB 2.0 (Mini-B con | 64 bit/128 bit), WP on Configuration, P E-T (RJ45 Connect DHCP, DNS | rotocol: HTTP (*5), [| | | |
| , | AA Ni-MH x 2 mA, AC Adaptor | AD-05A2 or AD-05C | 2, PoE IEEE 802.3 | af (TR-7nw only) | | | |
| nunication: / ays when Auto mmunicatio | With LAN communication: Approx. 10 days to 1year Ex: Approx. 10 days when Auto-upload Interval is 1 min, 7 mos when 1 hr, 1yr when 12 hrs or more Without LAN communication: Approx. 1 year | | | | | | |
| Н 58 mm x W 78 mm x D 26 mm | | | | | | | |
| Approx. 55 g | | | | | | | |
| Temperature –10 to 60°C / –10 to 45°C when using external power (TR-7nw only) | | | | | | | |
| Humidity 90 %RH or less (no condensation) Temperature Sensor Temperature-Humidity Sensor High Precision Temperature-Humidity | | | | | | | |
| x2 | . THA- | 3001 x1 | Sensor S | HA-3151 x1 | - | | |
| indows / T&l dows 10 32 dows 8 32 / dows 7 32 / dows Vista or Smart ph | D Graph / T&D Dat / 64 bit / 64 bit / 64 bit / 64 bit 32 bit SP1 or late none, Tablet) | , | not compatible) | Manuai Set (Warrai | nty included) | | |
| 0 | r Smart ph | r Smart phone, Tablet) | r Smart phone, Tablet) | ows Vista 32 bit SP1 or later (T&D Data Server not compatible) r Smart phone, Tablet) S (For the compatible versions, please refer to our website.) | r Smart phone, Tablet) | | |





^{*1:} Compatible wire sizes are as follows.

Single Wire: \$\phi\$ 0.32 to \$\phi\$ 0.65 mm (AWG 28 - 22), Twisted Wire: 0.08 to 0.32 mm² (AWG 28 - 22), \$\phi\$ 0.12 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.

To March 10 of the continual of

tures below -20 °C.

*4: The WPS feature is not available when WEP (64bit/128bit) or WPA-PSK (TKIP) is selected in Access Point Settings. If you wish to use the WPS feature, please select WPA2-PSK (AES) or disable wireless security.

*5: HTTP client. Proxy supported. (for firmware version 1.05 or above for TR-71wf/72wf).

*6: When using external power, the internal temperature of the logger rises.

*7: 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.

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

*9: We recommend using an operating system in the same language as the display language. Operation in different languages is not guaranteed.

The specifications listed above are subject to change without notice.