Data Logger for Cloud Storage

TR-7 Series

Network / USB Data Loggers TR-7wf/nw Series
Infrared / USB Data Loggers TR-7Ui Series
Next Generation Data Loggers —— Built for

Automatic Data Upload

T&D Cloud Service
Free of Charge!

WebStorage
Service

Data Analysis using
Graph Tools

Direct Wireless Communication
(TR-7wf only)

Temperature (2ch)

Temperature (2ch) - Thermocouple
**Cloud Storage**

**Seamless Data Access**

**Automatic Data Upload to Cloud Storage**
Equipped with either a wireless LAN (TR-7wf) or a wired LAN (TR-7nw), the TR-7wf/7nw series data loggers can automatically upload recorded data to “T&D WebStorage Service” at programmable intervals.

**Warning Notification**
T&D WebStorage Service can be used to monitor incoming data and send warning notification emails when user-defined upper/lower limits are exceeded.

**Direct Wireless Communication with Mobile Devices (TR-7wf)**
By using our free Mobile App “T&D Thermo” with a TR-7wf, it is possible to download recorded data and change settings directly from a smartphone or tablet.

**Data Viewing on PC, Smartphone or Tablet**
Data uploaded to the cloud can be viewed from anywhere, anytime.

**High-Accuracy Measurement with “-S” Type Models**
TR-72wf-S and TR-72nw-S come with our new high-precision temperature and humidity sensor, which has high environmental resistance and allows for reliable and accurate measurement in harsh environments.

**Application Examples**
- Managing temperature and humidity in hospitals, museums, and temperature-controlled warehouses
- Performance testing of humidity and heat control in housing
- Managing temperature and humidity in server rooms
- Recording temperature and humidity in subways and train cars

**Temperature / Humidity (1ch each)**

- **Wireless LAN** TR-72wf
- **Wired LAN** TR-72nw
- **Wireless LAN** TR-72wf-S
- **Wired LAN** TR-72nw-S

High-Precision Type
Easy-to-Use Data Loggers for Wide Variety of

- Simultaneous Multi-Channel Measurement with One Device
- Start Recording upon USB connection
- Data Analysis using Graph Tools
- Graph Display on a Data Collector

Temp / Humidity / Barometric-Pressure (1ch each)
Illuminance / UV Intensity / Temperature / Humidity (1ch each)
Measurements

Easy Data Download to PC via USB
The USB connection makes it easy not only to transfer recorded data directly from the data logger to your computer, but to monitor current readings on the PC screen.

Data Logger for a Variety of Measurements
The TR-7Ui series data loggers are designed to simultaneously measure and record a variety of measurements. In addition to temperature and humidity, barometric pressure, illuminance and UV intensity, and CO2 concentration are available.

High-Accuracy Measurement with “S” Type Model
TR-74Ui-S and TR-76Ui-S come with our new high precision temperature and humidity sensor, which has high environmental resistance and allows for reliable and accurate measurement in harsh environments.

Large Logging Capacity: 8000 Data Sets
One data set consists of readings for all channels in that type of unit. If set at a recording interval of 60 minutes, it gives you one year’s worth of measurements.

Application Examples
- Managing temperature and humidity in hospitals, museums, and temperature controlled warehouses
- Managing CO2, temperature and humidity in schools: from kindergartens to universities
- Research studies on photosynthesis and growth of plants
- Measuring the degree of air tightness in packaging during transportation
- Management of illuminosity and UV light (to prevent deterioration of exhibits) in art museums and other exhibit forums

CO2 / Temperature / Humidity (1ch each)

Data Collector

Note: This series does not require the use of Data Collection Devices.
Temperature Sensors for TR-71wf / 71nw / 73U

Measurement Range: -40 to 110°C, Sensor Temperature Durability: -50 to 115°C, Accuracy: Avg. ±0.3°C at -30 to 80°C, Avg. ±0.5°C at -40 to -26°C / 80 to 110°C

Materials: ① Thermistor ② TPE Resin-Shielded Sensor ③ TPE resin-shielded wire ④ MD Crimp Terminal ⑤ Compaction Tube ⑥ Stainless Pipe (SUS304) ⑦ Stainless Pipe (SUS316)

*Only stainless steel is water resistant.

Temperature Sensors for TR-71wf / 71nw (Fluoropolymer Coated Type)

Measurement Range: -60 to 155°C, Sensor Temperature Durability: -70 to 180°C, Accuracy: Avg. ±0.5°C at -40 to 80°C, Avg. ±1.0°C at -60 to -40°C / 80 to 100°C, Avg. ±2.0°C at 100 to 155°C

Materials: ① Thermistor ② Stainless Pipe (SUS304) ③ Fluoropolymer-Coated Compaction Tube ④ Fluoropolymer-Coated Electrical Wire

Temperature-Humidity Sensors for TR-72wf / 72nw / 74Ui / 78Ui

Materials: ① Temp/Humidity Sensor ② Polypropylene Resin ③ ABS Resin ④ Vinyl Chloride Coated Electrical Wire ⑤ Halogen-Free Flame-Resisting Jacket Cable

THA-3001
Measurement Range:
- Temperature: 0 to 55°C
- Humidity: 10 to 90%RH (no condensation)
Accuracy:
- Temperature: ±0.5°C
- Humidity: ±5%RH at 25°C and 50%RH
Response Time (90%): Approx. 7 min.

THA-3151
Measurement Range:
- Temperature: 0 to 55°C
- Humidity: 10 to 95%RH (no condensation)
Accuracy:
- Temperature: ±0.5°C
- Humidity: ±5%RH at 25°C and 50%RH
Response Time (90%): Approx. 7 min.

SHA-3161: High Precision Type
Measurement Range:
- Temperature: -25 to 70°C
- Humidity: 0 to 99%RH
Accuracy:
- Temperature: ±0.3°C at 10 to 40°C, ±0.5°C at all other temperatures
- Humidity: ±2.5%RH at 15 to 35°C / 50 to 80%RH
Long Term Stability: ±1%RH / yr, ±0.1°C / yr
Responsiveness: Response Time (90%): Approx. 7 min.

Temperature-Humidity Sensors for TR-73U

Measurement Range: Temperature 0 to 100°C, Humidity 10 to 90%RH
Accuracy: Temperature Avg. ±0.2°C at 0 to 50°C, Humidity ±5%RH at 25°C and 50%RH
Materials: ① Temperature/Humidity Sensor ② Polypropylene Resin ③ Vinyl Coated Electrical Wire

TR-3100
Response Time (90%): About 7 min.

TR-3110
Response Time (90%): About 7 min.
Illuminance-UV Sensor for TR-74Ui

**ISA-3151**

- **Measurement Range:**
  - Illuminance: 0 lx to 130 klx
  - UV Intensity: 0 to 30 mW/cm²
- **Accuracy:**
  - Illuminance: ±5%
  - 10 lx to 100 klx at 25°C, 50% RH
  - UV Intensity: ±5%
- **Relative Spectral Response:**
  - Illuminance: Approximated to the CIE standard response function V(λ)
  - UV Intensity: 260 to 400 nm (UV-A / UV-B)
- **Operating Environment:**
  - Temperature: -10 to 60°C
  - Humidity: 80% RH or less (no condensation)
  - Materials: 1) Polypropylene 2) outer 3) Vinylnlon-insulated wire

*1 Compared to the value measured by the T&D standard sensor for calibration under our calibration light source.
*2 Do not expose to condensation, dampness, corrosive gases, or organic solvents.

Sensor Extension Cable

- **TR-1C30**
  - Temperature Durability: 
    - -25 to 60°C
  - Temp-Humidity Sensor: THA-3001, THA-3151, SHA-3151
  - Illuminance-UV Sensor: ISA-3151
- **TR-5C10**
  - Temperature Durability: 
    - 25 to 60°C
  - Compatible Sensors:
    - Temp-Humidity Sensor: THA-3001, THA-3151, SHA-3151, TR-3100
    - Illuminance-UV Sensor: ISA-3151

Data Collector for TR-73U / 74Ui / 78Ui

**TR-57DCI**

- Accessories:
  - Software CD-ROM
  - USB Communication cable (US-15C)
  - AAA Alkaline Battery x 2
  - Serial Communication Cable (TR-SC10)

Wall Attachment

**TR-07K2**

- Accessories:
  - Lock Screw x 2
  - Double-sided adhesive tape
- **Compatible Unit:** TR-71wf / 71wfr / 72wfr / 72m / 72mfr / 73U / 74Ui
- **Materials:** Polycarbonate

Note:
- Checking may occur if polycarbonate is exposed to strong impact at temperatures of 70°C or lower.

**AT-76K1**

- Accessories:
  - Lock Screw x 2
  - Double-sided adhesive tape
- **Compatible Unit:** TR-76Ui (Including S Type)
- **Materials:** Aluminum

Software Set for TR-7wf / 7nw

**SO-15C1**

- **Contents:**
  - Software CD-ROM
  - USB Communication cable (US-15C)

Note:
- The TR-7wf/7nw series software can be downloaded via the internet, but for those who prefer, a CD and USB cable set is available for purchase.

Communication Cable

**US-15C : USB Communication Cable**

**TR-6C10 : Serial Communication Cable**

- For communication between TR-57DCI and TR-73U / 74Ui / 78Ui
  - Including S Type

**TR-07C : Serial Communication Cable**

- **Connector Type:**
  - Specialized Connector D-sub 9 pin
- For communication between PD and TR-73U / 74Ui / 78Ui
  - Including S Type

AC Adaptors for TR-76Ui

**AD-06A1**

- **Cable Length:** 1.8m
  - Input: AC 100 - 240V
  - Output: DC 6V 150mA
  - Frequency: 50 / 60 Hz
  - Plug Type: A

**AD-06C1**

- **Cable Length:** 1.8m
  - Input: AC 100 - 240V
  - Output: DC 6V 150mA
  - Frequency: 50 / 60 Hz
  - Plug Type: C
## Specifications

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<td>Response Time (90%): Approx. 7 min.</td>
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**LCO Display Items**
- Measurements (fixed or alternating display), Battery Warning, etc.

**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, 90 min.

**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**
- TR-71wf: Wireless LAN Communication
  - Standard: IEEE 802.11b (TR-71wf/772wf) / IEEE 802.11b/g/n (TR-75wf)
  - Security: WEP (64bit/128bit), WPA-PSK (TKIP), WPA2-PSK (AES)
- TR-71w: Wired LAN Communication
  - Protocol: HTTP*, DHCP, DNS
- TR-71w: OBDII Communication
  - Protocol: HTTP*, DHCP, DNS
- TR-71w: USB Communication
  - USB 2.0 (Mini-B connector)

**Battery Life**
- With LAN communication: Approx. 10 days to 1.5 years
- Ex: Approx. 10 days when Auto-upload Interval is 1 min, 1 yr when 1 hr, 1.5 yrs when 12 hrs or more
- Without LAN communication: Approx. 1.5 years

**Dimensions**
- H: 88 mm x W: 78 mm x D: 25 mm

**Logo**
- AA Alkaline Battery LP6 x 2, AA Ni-MH x 2

**Software Compatibility**
- Windows 8.1 / 8 / 7 / Vista / XP / Server 2003 / 2000 / 98 / Me / NT 4.0
- MacOS 10.7 / 10.6 / 10.5
- Linux

**Display Languages**
- English

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1. Compatible wire sizes are as follows: Single Wire: ø0.02 to ø0.05 mm (AWG 28 - 22), Twisted Wire: ø0.06 to ø0.09 mm² (AWG 22 - 18), 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 0.5°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. 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/772wf).
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. –10 to +45°C when using external power (TR-71w only).
9. For installation, it is necessary to have Administrator (Computer Administrator) rights.
10. 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.
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<tr>
<td><strong>Display Languages</strong></td>
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</table>

1) When continuously used in environments with temperatures above 60°C, accuracy of humidity measurements will decrease over time. Also, humidity cannot be measured at temperatures below -25°C.
2) Compared to the value measured by the T&D standard sensor for calibration under our calibration light source.
3) If you wish to use infrared communication to download recorded data, it is necessary to purchase the Data Collector TR-58DC (sold separately).
4) Customers wishing to write their own software, please contact your local distributor for the serial communications protocol specifications. (Note: Optional serial communication cable TR-67C is also required.)
5) Battery life varies depending upon multiple factors including ambient temperature, recording interval, frequency of communication, and battery performance. All estimates are based on operations carried out with a new battery and are no way a guarantee of actual battery life. When infrared communication function is enabled, battery life may be shortened if the unit is used under the inverter type fluorescent lighting.
6) For installation, it is necessary to have Administrator (Computer Administrator) rights.
7) 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.
### Specifications

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<td>Temperature 1ch</td>
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<tr>
<td><strong>Measurement Units</strong></td>
<td>°C, °F</td>
<td>°C, °F</td>
</tr>
<tr>
<td><strong>Measurement Range</strong></td>
<td>0 to 55 °C</td>
<td>0 to 55 °C</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>±0.5 °C at 20 °C, ±5 %RH</td>
<td>±0.3 °C at 10 to 40 °C, ±0.5 °C at all other temperatures</td>
</tr>
<tr>
<td><strong>Measurement Resolution</strong></td>
<td>0.1 °C at 20 °C, ±5 %RH</td>
<td>0.1 °C</td>
</tr>
<tr>
<td><strong>Response Time</strong></td>
<td>(90%) Approx. 7 min.</td>
<td>(90%) Approx. 7 min.</td>
</tr>
</tbody>
</table>

| **CO₂ Sensor (Internal)** | NDIR |
| **Measurement Channels** | CO₂ Concentration 1ch |
| **Measurement Units** | ppm |
| **Measurement Range** | 0 to 9,999 ppm |
| **Accuracy** | ±(50 ppm + 5 % of reading) at 5,000 ppm or less |
| **Measurement Resolution** | Minimum of 1 ppm |
| **Response Time** | Approx. 1 min. |

| **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) or One Time (Stop recording when capacity is full) |
| **LCD Display Items** | Measurements, Battery Level, etc. Measurements: CO₂ concentration, Temperature or Humidity (fixed or alternating display) |

| **Communication Interfaces** | USB Communication, Infrared Communication (IR-R/PHY) 1.2 low power |
| **External Alarm Terminal** | Output Terminal: Open Drain Output (Voltage when OFF: DC less than 30V / Current when ON: less than 0.1A / Resistance when ON: about 15Ω) |

| **Power** | AC Adaptor (AD-06A1 or AD-06C1), AA Alkaline Battery x 4 |
| **Battery Life** | Approx. 2 days (batteries only without AC adaptor) |
| **Dimensions** | H 96 mm x W 66 mm x D 46 mm (excluding protrusions and sensor) |
| **Weight** | Approx. 120 g |

| **Temperature-Humidity-Sensor** | THA-3151 |
| **High-Precision Temperature-Humidity Sensor** | SHA-3151 |

| **Operating Environment** | Temperature: -20°C to 50°C (no condensation) |

| **Accessories** | AA Alkaline Battery LR6 x 4, AC Adaptor AD-06A1 or AD-06C1, USB Mini-B Cable US-15C, Software CD-ROM, User's Manual Set (Warranty Included) |

| **Software Compatible OS** | Windows 10 32/64 bit, Windows 8 32/64 bit, Windows 7 32/64 bit, Microsoft Windows Vista 32 Bit (SP1 or later) |

| **Display Languages** | English |

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1: Make sure to use the data logger within the operating environment as listed in the specifications.

2: When continuously 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.

3: Stated value is the measurement accuracy of the CO₂ sensor when Auto Calibration is operating properly. A change in atmospheric pressure directly influences the reading of CO₂, which can cause measurement errors; a decrease in pressure by 10 hPa results in a relative decrease in CO₂ by 1.8%. In such a case, we recommend carrying out the “Atmospheric Pressure Correction” function found in CO₂ Recorder for Windows.

4: If you wish to use infrared communication to download recorded data, it is necessary to purchase the Data Collector TR-57DCi (sold separately).

5: Customers wishing to write their own software, please contact your local distributor for the serial communications protocol specifications. (Note: Optional serial communication cable TR-07C is also required.)

6: In order to use the external alarm terminal, please prepare a compatible connector: JST PAP-D4V-S.

7: Battery life varies depending upon multiple factors including ambient temperature, recording interval, frequency of communication, 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. Battery life may be shortened if the unit is used under inverter type fluorescent lighting.

8: 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.
## Specifications

### TR-73U

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### Data Collector TR-57DCi

**Compatible Devices**
- TR-7U Series: TR-74UL / 78U | 73U | TR-5i Series: TR-511 / 520 / 55i-TC / 55i-PI / 55i-V | 55i-mA / 55i-P
- Others: VR-71

**Storage Capacity**
- Up to 256,000 readings
- When downloading from units filled to logging capacity:
  - 10 units of TR-73U / 78U
  - 7 units of TR-74UL
  - 16 units of TR-511 / 520
  - 15 units of TR-55i

**When downloading from units of any type containing small amounts of data, it can store and manage up to 250 download sessions.**

**Communication Interfaces**
- Between TR-57DCi - Data Logger(s)
  - Optical Communication: For TR-5i Series
  - Infrared Communication: IR/IR1.2 low power
  - For TR-7U Series, TR-5i Series
- Serial Communication: RS-232C For TR-7U Series, VR-71
- Between TR-57DCi - PC
  - USB Communication
  - Serial Communication: RS-232C

**Power**
- AAA Alkaline Battery x 2, AAA Ni-MH Battery x 2, USB bus power, AC adaptor AD-06A1 or AD-06C1

**Battery Life**
- About 100 days at 1 hour of daily use

**Dimensions**
- H: 125 mm x W: 58 mm x D: 26.8 mm

**Weight**
- Approx. 90 g

**Operating Environment**
- Temperature: 0 to 55°C
- Humidity: 80 %RH or less (no condensation)

**Accessories**
- AAA Alkaline Battery LR03 x 2, USB Communication Cable US-159C, Serial Communication Cable TR-6C10, Software CD-ROM, User’s Manual Set (Warranty Included)

**Software Compatible OS**
- Windows 98 SE, ME, 2000, XP, Windows NT 4.0 (SP4), Windows 2003, Windows Server 2003, Windows Vista, Windows 7, Windows 8, Windows 10, Mac OS X 10.6.x, 10.7.x, 10.8.x, 10.9.x, 10.10.x

**Display Languages**
- English

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1. Infrared Communication can be used only to download recorded data, and not to make recording settings.
2. The following cables are necessary for serial communication with data loggers: TR-6C10 (Included) for TR-7U series, and TR-4C10 (optional) for VR-71.
3. The optional serial communication cable TR-6C10 is necessary for serial communication with PC.
4. Battery life varies depending upon multiple factors including ambient temperature, frequency of communication, 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.
5. For TR-74UL and TR-76U, only the data downloaded via TR-57DCi can be used with T&D Recorder for Windows.
6. For installation, it is necessary to have Administrator (Computer Administrator) rights.
7. 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.

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1: It is also possible to measure temperature with the internal sensor. However, the measurement range is restricted to the operating environment for the whole device.
2: Customers wishing to write their own software, please contact your local distributor for the serial communications protocol specifications. (Note: Optional serial communication cable TR-6C10 is also required.)
3: Battery life varies depending upon multiple factors including ambient temperature, frequency of communication, 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.
4: For installation, it is necessary to have Administrator (Computer Administrator) rights.
5: We recommend using an operating system in the same language as the display language.
6: Operation in different languages is not guaranteed.

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