Safety Precautions and Instructions

The following items should be strictly obeyed for the safe usage of this product, and for protecting yourself and other people from bodily harm and/or damage to property.

Explanation of Symbols

<Warning Symbols>

DANGER

These are actions that absolutely should not be taken. The taking of such an action may cause serious personal physical damage or death.

CAUTION

These are actions that may lead to physical injury or damage to persons or things.

<Picture Symbols>

Denotes a forbidden action.

Denotes a mandatory action.

Denotes an action that should not be carried out.

DANGER

To Prevent Serious Accidents

Do not disassemble, repair or modify the unit and/or accessories.

Do not use the unit in any environment that is exposed to chemicals and harmful gases. Doing so may cause corrosion and/or other danger to the unit. Also, coming in contact with hazardous substances may cause bodily harm to the user or people nearby.

This product is not water resistant. If water or a foreign object enters the case, immediately remove batteries and stop using it.

Do not handle the unit, remove batteries or cables with wet hands.

Do not use the unit in wet areas or places exposed to water such as bathroom.

Do not use the unit under extremely high temperature and humidity. Do not use the unit in an unsuitable environment (smoky or dusty places) it may be necessary to connect and disconnect the unit.

Place and store the unit and accessories out of the reach of children.

We are not responsible for any damage, malfunction or trouble, whether direct or indirect, caused by the use of our product.

Do not use any battery, sensor, or cable other than those specified by T&D Corporation.

Do not put anything on top of the cable or the unit. This may cause overheating.

Do not connect the USB cable during USB communication. Doing so may cause adverse effects to the unit and/or PC.

Make sure that sensor and cable plugs are all inserted fully, so as not to cause an improper connection. Also, when unplugging the cable from the unit, do not pull the cord, but hold the connector to disconnect.

If the unit produces heat, emits smoke or a strange smell, or makes unusual noise, immediately remove the batteries and stop using it. Also, unplug the unit from the PC.

If the unit is not to be used for a long period of time, remove batteries. Leaking batteries inside the unit may cause battery leakage and malfunction. Install new batteries when starting or re-starting to use a unit.

For TR-75wf/nw: Ch.1 and Ch.2 terminals are NOT electrically isolated from each other. Do not attach non-isolated thermocouple sensors to objects connected to a live voltage. This may cause a short circuit or an electrical shock.

CAUTION

Do not place or store in the following areas:

- Areas exposed to direct sunlight
- Areas subject to direct flame or heat, or as areas in which hot air or steam is generated or escapes
- Areas exposed to extremely high temperatures
- Areas exposed to static electricity
- Areas exposed to strong magnetic fields
- Areas exposed to water leakage
- Areas subject to condensation or wet areas
- Areas exposed to excessive vibration
- Areas exposed to excessive smoke, dust or dirt
- Areas exposed to corrosive gases

We do not guarantee the unit for it has been connected to a PC using a USB hub or a USB extension cable.

Do not connect any sensor to any data logger other than those specified by T&D Corporation.

We are not responsible for any damage, malfunction or trouble, whether direct or indirect, caused by the use of our product.

If the unit gets dirty, wipe it with a clean cloth.

When the unit gets dirty, wipe it with a clean cloth.

Do not use any battery, sensor, or cable other than those specified by T&D Corporation.

If extremely severe temperature changes occur, it may result in large errors in measurement accuracy and cause damage or malfunction.

Temperature-Humidity Sensor

The temperature-humidity sensors will normally experience temperature changes often, which may lead to data loss.

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If the unit gets dirty, immediately remove the sensor from the unit and wipe it with a clean cloth or soap as possible. Then allow the sensor to dry in normal temperature before using it.

When using the THA-2901 (or THA-2915) in an environment where the humidity is under 30% RH, the measurements may sometimes fluctuate. This is not abnormal.

Do not remove to condensation, dampness, corrosive gases, or organic solvents.

Optional Sensors

We offer a wide range of Temperature and Temperature-Humidity sensors, for extension cables, AC adaptors, etc. For details see the Optional Products Information on the Product Page.


Troubleshooting

If we do not handle the sale of Thermocouple sensors. Prepare a commercially available sensor.
### TR-7wf / TR-7nw Series - Specifications

#### Measurement Channels

<table>
<thead>
<tr>
<th>TR-7 wf / TR-7 nw</th>
<th>TR-72wf / TR-72nw</th>
<th>TR-72wf-S / TR-72nw-S</th>
<th>TR-75 wf / TR-75 nw</th>
</tr>
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<tbody>
<tr>
<td>Temperature</td>
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<td>Temperature</td>
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<td>2ch</td>
<td>(Internal 1ch / External 2ch)</td>
<td>1ch</td>
<td>(External 1ch)</td>
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</tbody>
</table>

#### Service

<table>
<thead>
<tr>
<th>TR-7 wf / TR-7 nw</th>
<th>TR-72wf / TR-72nw</th>
<th>TR-72wf-S / TR-72nw-S</th>
<th>TR-75 wf / TR-75 nw</th>
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</thead>
<tbody>
<tr>
<td>Sensor Type</td>
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<td>Temperature</td>
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</table>

#### Measurement Units

- **Internal Sensor**: 0 to 60°C (T), ±0.5°C (F)
- **External Sensor**:
  - **Supplied Sensor**: -40 to 110°C
  - **Optional Sensor**: 0 to 55°C
- **Accuracy**:
  - **Temperature**: ±0.5°C
  - **Humidity**: ±5% RH (at 5% to 95% RH)
  - **Other Conditions**: ±0.5°C (at 5% to 95% RH)

#### Resolution

- **Temperature**: 0.1°C
- **Humidity**: 0.1% RH

#### Response Time

- **90%** Approx. 7 min.
- **90%** Approx. 1.5 min.

#### Recording Interval

- Select from 15 choices: 1, 2, 5, 10, 15, 20, 30 sec. or 1, 2, 5, 10, 15, 20, 30, 60 min.
- **Accuracy**: ±10% at 5% to 95% RH
- **Cold Junction Compensation**: ±0.5°C at 10°C
- **Cold Junction Compensation**: ±0.5°C at 0°C
- **Accuracy**: ±0.5°C at 0°C
- **Accuracy**: ±0.5°C at 0°C

#### Power

- **Battery**: AA Alkaline x 2, AA Ni-MH x 2
- **External**: USB Bus 5V 280mA
- **Power Jack**: DC 5V 280mA

#### Operating Environment

- Temperature: -10 to 50°C (Humidity: 90% RH or less)

#### Accessories

- **Software Compatible OS**: Windows 7 / 8 / 10
- **Usable Software**: TR-7 Software, T&D Data Server, T&D Logger
- **Language**: English

#### Important Notices and Disclaimers

- **Accuracy**: The device is a digital apparatus that complies with Canadian IEC/IEEE 60346-3. The ambient value of the device is not a guarantee of actual battery life.
- **Environmental Conditions**: The device is designed to provide protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

#### Compliance Information (for TR-7 nw)

- **TR-7 / TR-7 nw**: Windows 7 / 8 / 10
- **TR-72 / TR-72 nw**: Windows 7 / 8 / 10
- **TR-75 / TR-75 nw**: Windows 7 / 8 / 10

#### TR-7w / TR-7nw Series Warranty

<table>
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<tr>
<th>1.</th>
<th>TR-72 / TR-72 nw</th>
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For product information or questions contact us at:

**T&D Corporation**

For product inquiries, please contact your local distributor. Visit T&D Website for the distributors list.

If you cannot find a distributor in your area, please contact our main office in Japan or one of our branch offices in Europe or America.

http://www.tandy.com/purchasing/index.html

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**TR-7w / TR-7nw Series**  
**Specifications**

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<th>Sensitivity</th>
<th>Response Time</th>
<th>Temperature</th>
<th>Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR-7w Wireless LAN Communication</td>
<td>Approx. 75 sec.</td>
<td>Approx. 10 days to 1.5 years</td>
<td>Temperature: -10 to 50°C</td>
<td>Humidity: 90% RH or less</td>
</tr>
<tr>
<td>TR-7w Wired LAN Communication</td>
<td>Approx. 10 days to 1.5 years</td>
<td>Approx. 10 days to 1.5 years</td>
<td>Temperature: -10 to 50°C</td>
<td>Humidity: 90% RH or less</td>
</tr>
</tbody>
</table>

**External Sensor**

- **Temperature**: -40 to 110°C
- **Humidity**: 30 to 90% RH

**Low Duty Items**

- Measurements: fixed or alternating display, battery warning mark, etc.

**Auto-updated Interval**

- Select from 15 choices: OFF, 1, 2, 5, 10, 20, 30 min, or 1, 2, 4, 6, 12, 24 hrs.

**Communication Interfaces**

- **TR-72 / TR-72 nw**: Wired LAN Communication: IEEE 802.3u (TR-71wf/72wf) / IEEE 802.11b (TR-75wf)
- **TR-75 / TR-75 nw**: Wireless LAN Communication: 100BASE-TX/100BASE-TX (TR-71wf/72wf) / IEEE 802.11a/b/g/n (TR-75wf)

**Power**

- **Battery**: AA Alkaline x 2, AA Ni-MH x 2
- **External**: USB Bus 5V 280mA
- **Power Jack**: DC 5V 280mA

**Dimensions**

- H x W x D: 158 mm x 76 mm x 20.5 mm

**Weight**

- Approx. 550 g

**Temperature-Humidity Sensor**

- TR-0106 x 2
- TR-7nw: Wired LAN Communication: 100BASE-TX/100BASE-TX (TR-71wf/72wf) / IEEE 802.11a/b/g/n (TR-75wf)
- TR-75: Wireless LAN Communication: IEEE 802.11b (TR-71wf/72wf) / IEEE 802.11a/b/g/n (TR-75wf)

**Software Compatible OS**

- Windows 7 / 8 / 10
- TR-72 / TR-72 nw: Wired LAN Communication: 100BASE-TX/100BASE-TX (TR-71wf/72wf) / IEEE 802.11a/b/g/n (TR-75wf)
- TR-75 / TR-75 nw: Wireless LAN Communication: IEEE 802.11b (TR-71wf/72wf) / IEEE 802.11a/b/g/n (TR-75wf)

**FCC Statement**

- The device is a digital apparatus that complies with Canadian IEC/IEEE 60346-3. The ambient value of the device is not a guarantee of actual battery life.

**Important Notices and Disclaimers**

- **Accuracy**: The device is a digital apparatus that complies with Canadian IEC/IEEE 60346-3. The ambient value of the device is not a guarantee of actual battery life.

**Compliance Information (for TR-7 nw)**

- **TR-7 / TR-7 nw**: Windows 7 / 8 / 10
- **TR-72 / TR-72 nw**: Windows 7 / 8 / 10
- **TR-75 / TR-75 nw**: Windows 7 / 8 / 10

**Labeling Language**

- **English**

**For product information or questions contact us at:**

**T&D Corporation**

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