SAFETY PRECAUTIONS AND INSTRUCTIONS

Explanation of Symbols

<Warning Symbols> These entries are actions that absolutely under no circumstance should be taken. The taking of such an action may cause serious personal physical damage or death.

<Picture Symbols> These entries are actions that if taken may lead to physical injury or damage to persons or things.

Explanation of Symbols

DANGER

<Warning Symbols>

CAUTION

<Picture Symbols>

Denotes an important warning or caution.

Denotes a forbidden action.

Denotes an action that should be carried out.

DANGER  To Prevent Serious Accidents

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

This product has been designed for private and/or industrial use only. It should not be used in situations where strict safety precautions are necessary such as with medical equipment, or in systems directly or indirectly connected with human life or well-being.

Do not drop or expose the unit to a strong impact.

Do not connect any communication cables connected to the unit to telephone line outlets. Continued use may cause fire or electrocution.

Do not cut or process the cords for the communication cables. Also, do not twist, pull on or swing any of the cords.

In order to prevent damage to the unit from static electricity, remove static electricity from your body by touching metal around you (such as a door knob and window frame) before touching the unit.

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. This may cause overheating.

Do not disconnect 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.

CAUTION Other Precautions

• Use the unit in the specified operating environment. Do not use it for any purpose other than for which it was designed.

• Condensation may occur inside the case when a unit is moved from one environment to another where there is a great difference in temperature.

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

• When connecting the unit to your PC, make sure to follow all warnings and instructions from your computer manufacturer.

• We shall not guarantee the unit’s operation if it has been connected to a PC using a USB hub or a USB extension cable.

• Do not insert any foreign objects into any of the unit’s jacks.

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

• Make sure to remove dust and dirt from plugs of any cables.

• Battery terminals may provide insufficient contact due to age or vibration. This may lead to data loss.

• If the unit is not to be used for a long period of time, for safety reasons please remove the battery. If left in the unit, the battery may leak and lead to malfunctioning.

• Please note that this document has been written based on the presupposition that details about contracts with an Internet provider, specific network environments and the set-up of any other necessary equipment to enable network connection has already been taken care of by the User and that connection has been confirmed as workable. T&D Corporation shall not be responsible for any damages which a contractor, a user or a third party may suffer.

• Do not use the sensor on the human body.

• Continued use may cause a decrease in the sensor’s accuracy and sensitivity even under normal operational conditions. If the sensor is being used in a smoky or dusty environment, the surface of the sensor will accumulate impurities causing a further decrease in the sensor’s performance.

• If extremely severe temperature changes occur, it may result in large errors in humidity measurement. Once the sensor’s temperature becomes stable, the measurements will return to normal.

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

• Do not expose the sensor to a strong impact. This may adversely affect measurement accuracy and cause damage or malfunction.

• When the sensor is not to be used for a long period of time, please store it at normal temperature and humidity.

• Do not use the sensor on the human body.

• Continued use may cause a decrease in the sensor’s accuracy and sensitivity even under normal operational conditions. If the sensor is being used in a smoky or dusty environment, the surface of the sensor will accumulate impurities causing a further decrease in the sensor’s performance.

• The included sensor is not water resistant. Do not allow the sensor to become wet. If the sensor gets wet, immediately remove the sensor from the unit and wipe it with a clean cloth as soon as possible. Then allow the sensor to dry in normal room temperature before using it again.

• When using the THA-3001 or THA-3151(option) in an environment where the humidity is under 30 %RH, the measurements may sometimes fluctuate. This is not abnormal.

• Do not expose to condensation, dampness, corrosive gases, or organic solvents (for High Precision Temperature-Humidity Sensors)

PACIFIC DATA INDUSTRIES, INC.

Please Read First

TR-71wf

TR-72wf

TR-72wf-H

EXPLANATION OF SYMBOLS

<Warning Symbols>

CAUTION

<Picture Symbols>

Package Contents

TR-71wf

HHA-3151 x 1

THA-3001 x 1

AA Alkaline Battery (LR6) x 2

Registration Code Label

USB Communication Cable (5S-15C)

Manual Set x 1 (Warranty Included)

Common Accessories:

TR-72wf

Temperature Sensor TR-0156 x 2

TR-72wf-H

High Precision Temperature-Humidity Sensor THA-3151 x 1

Part Names and Functions

[LEFT SIDE] [FRONT] [RIGHT SIDE]

Sensor Jack Channel 1

For connecting a sensor

INTERNAL Button

Press to change recording/upload internet settings or view current settings.

Sensor Jack Channel 2

For connecting a sensor (TR-71wf only)

REC/STOP Button

Press to start or stop recording.

POWER Button

Use this to turn the device ON and OFF.

USB Port

For connecting to PC with USB cable.

DISPLAY Button

Press to change LCD display mode.

Battery Cover

TR-71wf-H

TR-72wf

TR-0106 x 2

TR-71wf

Humidity Sensor

TR-72wf

Humidity Sensor

TR-72wf-H

Temperature-Humidity Sensor THA-3001 x 1
Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>TR-71wf</th>
<th>TR-72wf</th>
<th>TR-72wf-H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured Values</td>
<td>Current</td>
<td>±0.1°C</td>
<td>±0.1°C</td>
</tr>
<tr>
<td>Measured Units</td>
<td>Internal</td>
<td>±0.1°C</td>
<td>±0.1°C</td>
</tr>
<tr>
<td>Measurement Range</td>
<td>±0.1°C</td>
<td>±0.1°C</td>
<td>±0.5°C</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.1°C</td>
<td>±0.1°C</td>
<td>±0.5°C</td>
</tr>
<tr>
<td>Measurement Resolution</td>
<td>±0.1°C</td>
<td>±0.1°C</td>
<td>±0.5°C</td>
</tr>
<tr>
<td>Operating Environment Temperature</td>
<td>-10 to 60°C (*1)</td>
<td>-10 to 60°C (*1)</td>
<td>-10 to 60°C (*1)</td>
</tr>
<tr>
<td>Humidity</td>
<td>90 %RH or less (no condensation)</td>
<td>90 %RH or less (no condensation)</td>
<td>90 %RH or less (no condensation)</td>
</tr>
<tr>
<td>Resolution</td>
<td>Battery Life (*6)</td>
<td>With wireless LAN communication: Approx. 10 days to 1.5 years (Ex: Approx. 10 days when Auto-Power(*5) AA Alkaline Battery x 2 (AA Ni-MH batteries may also be used), Communication Recording Mode</td>
<td>Endless (Overwrite oldest data when capacity is full)</td>
</tr>
<tr>
<td>Recording Interval</td>
<td>Select from 15 choices: 1, 2, 5, 10, 15, 20, 30 sec. or 1, 2, 5, 10, 15, 20, 30, 60 min.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Number of Channels</td>
<td>1ch(External)</td>
<td>1ch(External)</td>
<td>1ch(External)</td>
</tr>
<tr>
<td>Data Storage Capabilities</td>
<td>SO-15C1 Software Set</td>
<td>Included: Screw x 2 and Double-sided Tape x 1</td>
<td></td>
</tr>
<tr>
<td>Communication Interfaces</td>
<td>USB Bus Power (5V 200mA),AC Adaptor (AD-05A2 or AD-05C2)</td>
<td>USB Communication</td>
<td>T&amp;D Communication (USB 2.0 Full-Speed connection)</td>
</tr>
<tr>
<td>Security (*3):</td>
<td>WEP (64bit/128bit), WPA-PSK(TKIP), WPA2-PSK(AES)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TR-1108 Fluoropolymer Coated Sensor</td>
<td>Cable Length: 0.6 m</td>
<td>Stainless Sensor</td>
<td>TR-1220 Stainless Protection Sensor</td>
</tr>
<tr>
<td>Data Logger</td>
<td>Response Time (90%): Approx. 3 sec. (in agitated water)</td>
<td>Response Time (90%): Approx. 10 sec. (in air) / Approx. 20 sec. (in agitated water)</td>
<td></td>
</tr>
<tr>
<td>Temperature-Humidity Sensors (For TR-71wf)</td>
<td>Temperature Measuring Accuracy</td>
<td>±0.5°C</td>
<td>±2.5% (at 25°C, 10 to 85%RH), ±4.0 %RH [at 25 °C, 0 to 80°C]</td>
</tr>
<tr>
<td>Temperature Measuring Range</td>
<td>-20 to 100°C</td>
<td>±0.5°C</td>
<td>±4.0%RH</td>
</tr>
<tr>
<td>Temperature-Humidity Sensors (For TR-72wf)</td>
<td>Temperature Measuring Accuracy</td>
<td>±0.5°C</td>
<td>±2.5% (at 25°C, 10 to 85%RH), ±4.0 %RH [at 25 °C, 0 to 80°C]</td>
</tr>
<tr>
<td>Temperature Measuring Range</td>
<td>-20 to 100°C</td>
<td>±0.5°C</td>
<td>±4.0%RH</td>
</tr>
</tbody>
</table>

Important Notices and Disclaimers

In order to properly use this product, please carefully read all documents that accompany the product before using. T&D Corporation accepts no responsibility for any malfunction or trouble with this product or with your computer that is caused by improper handling of this product and will disclaim all such trouble or malfunction as falling outside the conditions for free repair outlined in the attached warranty.

- All rights of the attached documents belong to T&D Corporation. It is prohibited to use, duplicate and/or arrange a part or whole of this document without the permission of T&D Corporation.
- Microsoft, Windows, and Microsoft Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- For product information or questions contact us at:

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.
http://www.tandd.com/about_tandd/contactus/