Web Data Recorder WDR-3

Safety Precautions and Instructions

Please carefully observe the following safety measures when using our product.

Explanation of Symbols

Explanation of Warning Symbols

DANGER
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.

CAUTION
These entries are actions that if taken may lead to physical injury or damage to persons or things.

Explanation of Picture Symbols

Denotes an important warning or caution. Inside or near the symbol will appear another symbol giving details. (EX: Be careful of electrocution.)

Denotes a forbidden action. Inside or near the symbol will appear another symbol giving details. (EX: Do not use in wet areas)

Denotes an action that you must take. Inside or near the symbol will appear another symbol giving details. (EX: Unplug power plug from outlet)

Warning

Do not take apart, repair or modify the main unit. This may cause fire or electrocution.

Do not plug the AC adaptor with wet hands. This may cause electrocution.

Do not unplug the AC adaptor with wet hands. This may cause electrocution.

If water or a foreign body enters into the unit, immediately unplug the AC adaptor and stop using. Continued use may cause fire or electrocution.

If any smoke or strange smells are emitted from the unit, immediately pull out the AC adaptor and cease using it. Continued use may cause fire or electrocution.

Do not dry the unit with a hair dryer or similar device. This may cause electrocution.

Condomensation may occur if the unit is moved from one environment to another where the difference in temperature is great. Use the unit in an environment where the ambient temperature is from 0 to 50°C and the humidity is between 25% and 80% RH (no condensation). When using a Wireless LAN card, please follow all instructions included with the card.

Make sure that the LAN cable and AC adaptor are inserted fully, so as not to cause electrical contact. This will cause the inside of the device to become overheated and may cause fire or electrocution.

Always, when unplugging the LAN cable from the main unit, do not pull the cord, but hold the connector to disconnect. This may cause the unit to fall and result in injury and/or damage.

To prevent damage to the unit from static electricity, remove static electricity from your body by touching metal around you (door knob, window frames) before touching the unit. Static electricity may cause not only damage to the unit, but may cause break in or a loss of data.

Provisions for Free Repair

The warranty is contained in the User's Manual (English) included in the package. When seeking repair, please make sure to fill in all required fields and present it.

1. If the Unit does not work properly despite the fact that the customer used it properly and in line with the manual, the Unit shall be repaired free of charge through the distributor which sold the Unit.

2. If the customer requests free repair because of trouble in the warranty period, bring or send the Unit along with the warranty to the distributor.

3. If you have moved after purchasing, or there are difficulties contacting the distributor from which you purchased the Unit, please contact T&D directly for service.

4. Free repair is not available in the following cases even though it is within the warranty period:

- Trouble or damage was caused by careless operation, natural disaster, fire, public pollution, or use of a defected product or other source other than specified.

- If repair, adjustment, disassembly or modification of the Unit has been carried out by a person other than a T&D authorized engineer.

- Trouble or damage was caused by transportation, movement or dropping of the Unit after purchase.

- Failure to submit the warranty or failure to fill in all items required in the Warranty.

5. The Warranty cannot be reassigned.

The Warranty only promises customers free repair within the period and conditions clarified in The Warranty. Therefore, the customer’s legal rights will not be limited by the Warranty. For further information on repair and other service questions after the termination of the warranty period, contact your distributor.
1. Getting the WDR-3 Ready to Use

1. Connecting the AC Adaptor
   - Please make sure to use the proper AC adaptor for your local voltage. The AD-0605 AC adaptor has an input range of 100 to 120V, the AD-051C AC adaptor has a range of 100 to 240V.
   * To ensure a proper connection make sure that the plug is completely inserted.
   * Do not use an AC adaptor other than the one that is supplied with the product. Doing so may cause fire or other trouble.
   * Insert the AC adaptor plug into the socket. Inserting the plug into a socket with different voltage may cause fire or other trouble.
   * Do not insert or pull out the AC adaptor plug with wet hands or if there are water drops on the plug, it may cause electrocution.

2. Connecting a LAN Cable
   - When first making settings, please connect to a computer that is connected to the a local network.
   * To ensure a proper connection make sure that the plug is completely inserted.

3. Connecting the Signal Wire
   - Prepare a ø0.5 ~ 0.9 single type wire and remove the covering to about 10mm from the tip.
   - Please be careful when pulling out the wire.
   - If you wish to remove an input signal wire, press down on the <B> button with a screwdriver and pull out the wire.
   - Do not remove the input cable from the logger and leave it while still connected to the origin of the signal. There is a chance that it will come into contact with another signal and cause a short.
   * For how to directly connect to a computer or for how to connect to use a Wireless LAN card, see [Connecting to a Network] in the User’s Guide on the CD-ROM.

2. Installing the Software

To properly use WDR-3, the following operational environment is necessary.

<table>
<thead>
<tr>
<th>OS</th>
<th>Microsoft® Windows® 7 32/64bit English</th>
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<tbody>
<tr>
<td></td>
<td>Microsoft® Windows Vista® 32bit English</td>
</tr>
<tr>
<td></td>
<td>Microsoft® Windows® XP 32bit (SP2 or above)* English</td>
</tr>
<tr>
<td></td>
<td>Microsoft® Windows® 2000 English</td>
</tr>
<tr>
<td>PC / CPU</td>
<td>A Stable Windows Operating Environment</td>
</tr>
<tr>
<td></td>
<td>LAN, TCP/IP Communication Possible</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>Enough memory to stably operate Windows</td>
</tr>
<tr>
<td>Disc Space</td>
<td>More than 20MB free space (More free space is necessary for data)</td>
</tr>
<tr>
<td>Monitor</td>
<td>VGA (SVGA higher than 640x480 recommended) more than 256 colors</td>
</tr>
</tbody>
</table>

- Is Windows® operating properly?
  - If Windows is not operating properly, Network Settings Utility may not be installed correctly or it may not operate properly.
  - Please quit all other applications.
  - If other programs are open, please close and quit all of them, making sure to quit all Quick Start programs such as a virus checker.

To install the Network Settings Utility, it is necessary to have Administrator Rights for the computer into which it will be installed.

1. Open Windows®.
2. Place the accompanying CD-ROM into your CD-ROM drive.
   - In a few seconds, the [Install Program] window will appear.
   * If that window does not automatically open, please open it by double clicking the CD-ROM icon in [My Computer] on your desktop.
   - Also, if the file appears in the CD-ROM folder, click on the "start.exe" icon.

3. Select [Install Network Settings Utility] and click the [Execute] button to start the installation.
4. Continue the installation by following the directions as they appear.
5. After installation has been completed, Network Settings Utility will be registered in the Windows [Start] Menu.

3. Using the Network Settings Utility

To open the Network Settings Utility, go to the Windows [Start] Menu and under Programs, click on [Network Settings Utility].

Network Settings Utility
The Network Settings Utility contains the following functions:

* For more detailed information about using Network Settings Utility, see the User's Guide on the provided CD-ROM or the software Help Menu.

Network Settings Utility
The Network Settings Utility contains the following functions:

* [Network Initialization] Tab
  - After purchasing a WDR-3 unit, the first step is to make all Network Settings for connecting to a network.

* [Detailed Network Settings] Tab
  - The reception of WDR-3 settings and more detailed network settings can be made here.
4. Initialization Settings

**Caution**
- Please note, upon purchase, all WDR-3 units are set with the same IP address. To make IP address changes, connect one unit at a time and carry out the changes. Do not connect more than one WDR-3 unit with the same address to the network at the same time.
- This explanation is about how to connect to a local network and is not about how to connect to the Internet. If you wish to use by connecting to the Internet, see [Connecting to the Internet] in the User's Guide on the provided CD-ROM.

1. In [Network Settings Utility], click on the [Initialization Settings] Tab and then click on the [Search] button.

   - After clicking, the search results will be shown in about 5 seconds.

2. Making Changes to the IP Address and Subnet Mask

   1. From the displayed list, select the WDR-3 to which you wish to make settings by either double clicking on that address or select and click on the [Change Settings] button.

      The [Network Settings] window will then appear.

      - Enter an IP address and subnet mask that is appropriate for your network.
      - For example, if your computer IP address is "192.168.1.1", and the subnet mask is "255.255.255.0", then set the WDR-3 IP address as "192.168.1.10".
      - If you are unsure, ask your company network administrator.

   2. After entering the above, next, enter the login ID and password.

      * The WDR-3 factory default login ID is "wsc-user" and the password is "wsc-passwd". Make any necessary changes to the login ID and password at [Detailed Network Settings] in the User's Guide on the provided CD-ROM.

   3. After entering the above, next, enter the login ID and password.

      * The WDR-3 factory default login ID is "wsc-user" and the password is "wsc-passwd". Make any necessary changes to the login ID and password at [Detailed Network Settings]

4. After checking for entry errors, click the [Send] button. After transmission has been completed a message will appear.

   - Click the [OK] button to complete the settings.

   * The factory default settings for WDR-3 are as follows: IP Address: "192.168.1.200", Subnet Mask: "255.255.0.0".

5. Opening the WDR-3 Web Viewer

1. Open Internet Explorer.

2. In the address, enter the IP address that was entered in the [Network Settings Utility] in the form of a URL that begins with http://...and then press the <Enter> key. The WDR-3 Web Viewer will appear.

   - After this, anytime you wish to view an already initialized WDR-3, enter the address as above, and press the <Enter> key to open the WDR-3 Web Viewer.

3. If the Viewer does not appear

   Check the IP address and subnet mask, and repeat the steps in [4. Initialization Settings].

About the WDR-3 Web Viewer

There are two ways to log into the WDR-3 Web Viewer. One is to login in using the Administrator Login ID and Password, the other is to login using the User Login ID and Password.

When Logging in as the Administrator

Make all environmental settings for the operation of WDR-3.

The Login ID and Password are the same as those for the [Network Settings Utility]. If, in [Detailed Network Settings] under [Network Settings Utility] changes were made to the Login ID and Password, make sure to enter the new ID and Password.

- Login Settings

  - Make Login and Password settings, as well as access permission settings for using without a Login ID.

- LAN Settings

  - Without opening the Network Settings Utility, settings can be made for Wireless LAN, IP address, Subnet Mask, and DNS server address.

- Mail Settings

  - Mail settings can be made to enable the sending of warning report mail upon the occurrence of a warning or for sending mail containing measurement readings at a set period of time.

- Clock Settings

  - If the clock settings for the WDR-3 are set incorrectly, the time will be incorrect for recorded data, warning occurrences and all other functions.

  Please make sure to set correctly before using.
When Logging in as a User
Make operational settings for using WDR-3.
The initial settings for both the Login ID and the Password are "user".

Monitor Current Readings
The WDR-3 communicates with the external device and the most recent measurement(s) are displayed.
* If you are using ON / OFF input (contact input), the number of pulses during one minute is displayed.

View Settings

Name and Scale
View the Channel Name, Scale and Unit of Measurement settings for the Device Name (WDR-3).

Data Management
View various mail settings including: transmission interval settings, data range settings and recipient address settings.

Recording
View various recording settings including: channel name for channel which is recording, the set recording method and recording interval.

Warning and Message Recipient
View the contents of the warning settings.

Setting Changes

Name and Scale
Make and change various device (WDR-3) settings such as Channel Name, Scale and Unit of Measurement.

Data Management
Make settings to have the WDR-3 send recorded data via mail to a specified address. Make various mail settings including: transmission interval settings, data range settings and recipient address settings.

Recording
Make settings in order to carry out recording.

Warning Report Settings
Make settings in order to carry out warning monitoring.

Customize the Window
Make settings to change the background color in the WDR-3 Web Viewer. Click the topic you wish to change.

Downloading
Download recorded data and view in graph form.