# Wireless CO2 Recorder RTR-576 User's Manual

Thank you for purchasing our product. To ensure safe and proper operation, please read this manual thoroughly before use.

#### RTR-576 Package Contents



- Wireless CO2 Recorder (RTR-576)
- Temperature-Humidity Sensor (THA-3001)
- AC Adaptor (AD-06C1)
- USB Mini-B Cable (US-15C)
- AA Alkaline Battery LR6 x 4 User's Manual (Warranty Included)

**T&D Corporation** 

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## **RTR-576-S Package Contents**

Wireless CO2 Recorder (RTR-576)

Sensor (SHA-3151)

AC Adaptor (AD-06C1)

• AA Alkaline Battery x 4

High Precision Temperature-Humidity

USB Communication Cable (US-15C)

User's Manual (Warranty Included)



- Do not allow the unit to become wet. Do not use or store the unit in places where condensation occurs.

**Notes about Operation** 

changes in temperature.

To help prevent deterioration of the unit, do not use or store the unit in areas exposed to cigarette smoke, corrosive, explosive or organic gases or dust in the

This product has been designed for use in normal living conditions, and is not

suited for controlled environments such as a CO2 incubator. When measuring

This product cannot measure CO or O2. Do not use it for purposes such as

For one to two weeks after installation of the unit, CO2 concentration

avoiding O2 deficiency, CO intoxication or any other health related purpose.

measurements may fluctuate suddenly. This is due to the normal operation of

Do not use or store the unit in areas exposed to direct sunlight and abrupt

in the operating environment indicated in the specifications.

Auto Calibration and is not a malfunction of the RTR-576.

outdoors, avoid exposure to sunlight, dust, rain, or wind. Also make sure to use



Do not expose the unit to a strong impact. This will adversely affect measurement accuracy and may cause the case to break resulting in bodily injury.



The measurement accuracy of the CO2 sensor can not be guaranteed for CO2 concentrations of 5,000ppm or more. As a Remote unit, RTR-576 requires a Base Unit to carry out wireless

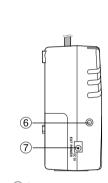


(Compatible Base Units: RTR500BC, RTR500BW, RTR-500, RTR-500NW/AW, RTR-500DC, RTR-500MBS-A)

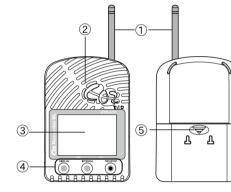


Please set up the Base Unit first before the RTR-576.

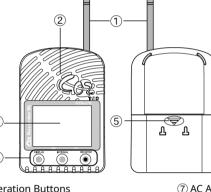
## **Part Names and LCD Display**



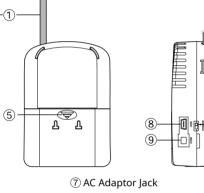
1) Antenna 2 CO2 Sensor Area (Internal) (3) LCD Display



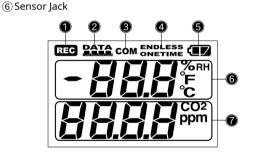
4 Operation Buttons (DISPLAY) Button,



(INTERVAL) Button ( REC/STOP) Button (5) Battery Cover



**® USB Connector** (9) Serial Connector (RS-232C) 10 External Alarm Terminal (EXT ALM) ① 〈 **POWER** 〉 Switch



[REC] Mark

Shows recording status ON: Recording in progress BLINKING: Waiting for programmed start OFF: Recording stopped At the beginning of every 2,000 readings the scale will be marked from left to right.

 Data Scale (COM) Mark

Logging capacity is 8,000 readings. Shows communication status but not displayed normally ON: The unit is connected to a PC with a USB cable RAPID BLINKING: The unit is in communication via USB or wireless communication.

Rec. Mode Recording mode settings can be made by using the software.

Upon reaching the logging capacity of 8,000 readings, the oldest data will be overwritten and recording will continue. One Time: Upon reaching the logging capacity of 8,000 readings, recording will automatically

stop and in the LCD the current measurement and the word "FULL" will alternately Battery Mark

Shows source of power and voltage level. (See "Interpreting the Battery Mark" for **©** Current Tempera- Shows the current readings for temperature (°C / °F) and humidity (%RH). Pressing ture and Humid- the (DISPLAY) button will change the measurement item to be displayed. This area

ity Readings Area is also used to display messages.

**© Current CO2** Shows the current readings for CO2 concentration (ppm). This area is also used to **Readings Area** display messages.

Messages and Display on the LCD

# **Settings Messages**

REG PATA ENDLESS IN Button Lock



When "Button Lock" has been set to ON in the software, operational buttons are not active.



When recording mode has been set to "One Time" and the unit reaches its logging capacity of 8,000 readings, the measurement and the message [FULL] will alternately appear in the LCD. Stop recording and download the recorded data before re-starting recording. Memory "FULL" does not occur when in "Endless" mode.

## Checking the Power Supply Condition

**Interpreting the Battery Mark** 

Whether the battery mark is "blinking" or "on" indicates the source of power. This mark will not appear when batteries are not installed

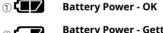
#### **BLINKING (Running on battery):** The battery mark will blink on the LCD display when operating on battery

ON (Running on external power):

The battery mark will be on when using the AC adaptor.

## Checking the Battery Level

The battery level will be shown in three stages as below.

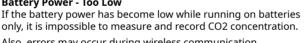


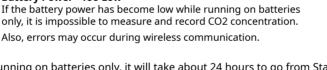
power only

**Battery Power - Getting Low** 



It is recommended to change the batteries as soon as possible. Battery Power - Too Low

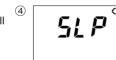




• When running on batteries only, it will take about 24 hours to go from Stage ① to ② and another 24 hours from Stage ② to ③

## ④ Sleep Mode (stopping measurement and recording) After Stage ③, if the batteries are not changed but remain in use, the unit will

enter sleep mode and stop measurement and recording in order to protect recorded data until this point



battery power.

23.8°.

• Upon replacing the batteries with new ones, the display will return to the current readings display.

Download the recorded data into the PC before re-starting recording.

# ⑤ Erasing recorded data

If the battery is further left unchanged, the display will automatically shut off and all previously recorded data will be lost Recording settings will remain.

#### Removing the Batteries during Recording 1. If the batteries are removed when running on battery power only, the Unit will start a sixty-second countdown. **2.** To continue recording, before the countdown comes to an

**3.** If power is not supplied within 60 seconds, the Unit will enter sleep mode.

end, insert new batteries or connect the AC adaptor to supply



SLP

## When [ \_\_\_\_ ] appears in the following:



Temperature and Humidity Display Area

This appears when the Temperature-Humidity sensor is not connected to the RTR-576, the connection is loose, the wire is broken, or when power has just been turned ON. If after re-connecting the sensor, measurements can still not be displayed, it is very possible that the sensor or the logger is defective or has been damaged.



#### CO2 Concentration Display Area

This appears when power has just been turned ON. If measurements don't appear in the display after waiting for a considerable time, there is a possibility that the sensor is defective or has been damaged. Also, the CO2 sensor will not work if battery power is low.

# Setting up the RTR-576



 $/! \setminus$  Do not connect an RTR-576 to your computer before first installing the software for the Base Unit.



# Connect the Sensor





## Turn ON the Power

#### **AC Adaptor**

When measuring and recording over long periods of time, please use a supplied AC adaptor.

#### **Four AA Alkaline Batteries**

If running on only batteries, the estimated battery life is about two days. Keeping batteries in the unit allows a backup source of power for when and if electrical power is cut from the AC adaptor.

• Note: When using batteries as a backup power supply, it is recommended to replace them approximately once every two years to avoid battery leakage.

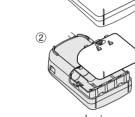
#### **Install the Battery**



**1.** Remove the battery cover from the back of the ① 1) While pressing down on the triangular mark,

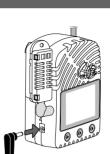
slide the cover to the bottom of the unit.

2 Lift off the cover.



**2.** Insert the supplied batteries.

- · Make sure to use new batteries of the same kind. • Make sure not to mistake + / -.
- · Do not insert or change batteries with wet hands.
- · Be sure to completely close the cover.



## concentration. **3** Register as a Remote Unit

Register the RTR-576 as a Remote Unit by using the Settings Utility software\* for the Base Unit. After connecting the unit to your computer via USB cable, carry out registration by clicking the [Register] button in the [Remote Unit Settings] menu of the software.

After switching on the unit, it will take about one minute to display the normal CO2

\* includes [RTR500BC Settings Utility], [RTR500BW Settings Utility], [RTR-500W Settings Utility], [RTR-500 Settings Utility], [RTR-500MBS Settings Utility] and [RTR-500DC Settings Utility].

#### When the wizard window appears:

Turn on the (POWER) switch.

Warm-up Time for CO2 Sensor

After setting up the power supply, turn on the (**POWER**) switch.

• See Button Operations for notes about turning off the (POWER)

If upon USB connection, the [New Hardware Detection Wizard] opens, it is necessary to follow directions to install the USB Device Driver.



- If you have connected a unit without having installed the software, and the New Hardware Wizard has opened, please close the wizard window and disconnect the USB cable from your
- For details about the installation of the USB Device Driver, access [Help for Unit Recognition Failure] from the start menu of the software.

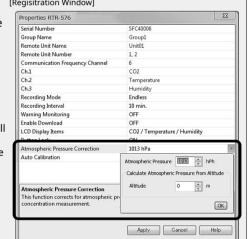
#### **Atmospheric Pressure Correction:**

Measurement results of CO2 concentration are affected by atmospheric pressure. When high measurement accuracy is required, we recommend that Atmospheric Pressure Correction be carried out before a recording session is started

### **Registration Window for RTR-576:**

In the Registration Window for RTR-576, click the pull down menu of [Atmospheric Pressure Correction] to open the settings box. Directly enter the pressure (hpa) in the [Atmospheric Pressure] field

**Calculate Atmospheric Pressure from Altitude:** This setting can also be made by having the software calculate the estimated pressure at the altitude (meters) entered by the user.



# **Button Operations**

If "Button Lock" has been set to ON in the software, the operational buttons will not be If "Butt active.

#### **(REC/STOP)** Button: Starting and Stopping Recording Starting Recording

Press the (REC/STOP) button for about two seconds until the [REC] mark appears on the display.

- · It is possible to start recording even while waiting for a programmed
- · Upon the start of recording, all previously recorded data in the RTR-576 will be deleted.

## Stopping Recording

Press the (REC/STOP) button for about two seconds until the [REC] mark disappears from the display.



## (DISPLAY) Button: Changing the LCD Display Pattern

It is possible to change the current readings display for temperature and humidity (upper row). CO2 concentration (lower row) is always displayed.

**1.** With each pressing of the **(DISPLAY)** button the item on the display will change. The display will alternate every one Temperature and

Humidity: Temperature only

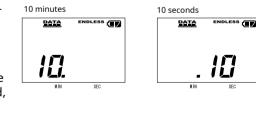
**Humidity only** 

**2.** When the desired display pattern appears, stop pressing the button.

#### 〈INTERVAL〉 Button: Checking Recording Interval

It is possible to check the recording interval during recording or while waiting for a programmed recording to start.

- **1.** By pressing the (INTERVAL) button for about two seconds, the currently set recording interval will appear on the LCD display.
- **2.** If no operation is carried out after the recording interval has been displayed, the current measurement readings will return to the LCD display.



### $\langle$ INTERVAL angle Button: Changing the Recording Interval Setting

Recording interval settings cannot be changed while a recording session is in progress.

- **1.** Stop recording.
- **2.** Press the (INTERVAL) button for about two seconds to display the currently set recording interval on the LCD screen.
- **3.** With each pressing of the (INTERVAL) button the recording interval time will change; stop pressing the button when the desired interval appears.
- **4.** Restart the recording session.

#### Turning Off the (POWER) Switch



During recording or when the "Button Lock" is set to ON in the software, the power cannot be turned off even by using the (POWER) switch.

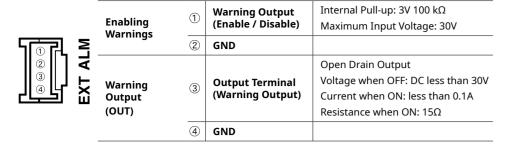
- **1.** Stop recording.
- **2.** Turn off the (**POWER**) switch.
- · If the RTR-576 is connected to an AC adaptor, standby power will be supplied even after turning off the (POWER) switch, allowing the CO2 sensor to continue operation. Therefore, the CO2
- When running on battery power only, CO2 sensor stops working if the (POWER) switch is turned off.

sensor lamp will continue to flash periodically

#### **Getting Ready to Use External Alarm Terminal**

It is possible to connect an external device such as siren or lamp to the RTR-576. Please make sure to check specification details of the external alarm terminal before purchasing or getting an external device ready for connection.

#### About the External Alarm Terminal (EXT ALM)



Output is enabled or disabled. If a warning condition occurs while

Warning Output is enabled, a connection between ③ and ④ will be established and a warning will be output.

# The connection between ① and ② decides whether Warning

#### **About the Compatible Connector**

The IST Connector PAP-04V-S is compatible with the external alarm terminal. For questions concerning sales of the connector, please directly contact JST Mfg. Co., Ltd. http://www.jst-mfg.com/inquiry/consult.php

#### **Auto Calibration Function for CO2 Sensor**

#### What is "Auto Calibration"?

Auto calibration is a function designed to enable long-term accurate measurements for the RTR-576 by gradually adjusting the lowest measured CO2 concentration over a 180 hour period, to the global average concentration (atmospheric CO2 level of 390 ppm).

The factory default setting for auto calibration is ON.

#### **Turning ON and OFF Auto Calibration**

Turn off auto calibration\*1 when continuously measuring in an environment where the lowest CO2 concentration differs greatly from the global average concentration of 390 ppm. In this case, to ensure accurate measurement results, periodically place the RTR-576 in fresh air outside and check if the measured CO2 concentration values are close to 390 ppm or not. If not, we recommend that you carry out manual calibration\*2.

- \*1: Auto-calibration ON/OFF can be changed from the Windows software for your Base Unit Settings Utility -[Remote Unit Settings]
- \*2: The measurement of the CO2 sensor may have a slow drift. It is recommended to perform manual calibration about once a month. For details of the manual calibration procedure, please see the **Tips** below on this

#### Cautions about using the Temperature-Humidity Sensors



- If extremely severe temperature changes occur, the humidity measurements may appear abnormal. 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
- 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.
- Do not expose to condensation, dampness, corrosive gases, or organic solvents.
- This 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.

**High Precision Temperature-Humidity** 

Temperature -25 to 70°C, Humidity 0 to 99 %RH\*

Long Term Stability: ±1%RH/yr, ±0.1°C/yr

\* When continually used in environments with

Wall Attachment: AT-76K1

temperatures above 60°C, accuracy of humidity

cannot be measured at temperatures below -20°C.

measurements will decrease over time. Also, humidity

Sensor: SHA-3151

Cable Length: 1.5 m

Material: Aluminum

Accessories: Screw x 2

## **Options**

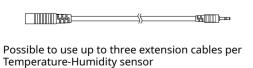
### **Temperature-Humidity Sensor:** THA-3151



Temperature 0 to 55°C, Humidity 10 to 95 %RH Temperature 0.1°C, Humidity 1 %RH Accuracy:

Temperature ± 0.5°C, Humidity ± 5 %RH at 25°C, 50%RH Response Time (90%) : Approx. 7 min. Cable Length: 1.5 m

#### Sensor Extension Cable: TR-1C30



Compatible Sensor: THA-3001, THA-3151, SHA-3151 Temperature Durability: -25 to 60°C Material: Vinyl Coated Electrical Wire Cable Length: 3 m

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



For communication between RTR-500DC and Cable Length: 1.0m

#### Specifications

	RTR-576		RTR-576-S		
Temperature-Humidity Sensor					
Temperature - 0Humidity Sensor (External)	THA-3001		SHA-3151 (High-Precision Type)		
	Thermistor	Polymer Resistance	Thermistor	Polymer Resistance	
Measurement Channels	Temperature 1ch	Humidity 1ch	Temperature 1ch	Humidity 1ch	
Units of Measurement	°C, °F	%RH	°C, °F	%RH	
Measurement Range (*1)	0 to 55 °C	10 to 95 %RH	-25 to 70 °C	0 to 99 %RH (*2)	
Accuracy	±0.5 °C	±5 %RH at 25 °C, 50 %RH	±0.3°C at 10 to 40 °C ±0.5°C all other temperatures	±2.5 %RH at 15 to 35 °C, 30 to 80 %RH	
Measurement Resolution	0.1 °C	1 %RH	0.1 °C	0.1 %RH	
Responsiveness	Response Time (90%): Approx. 7 min.		Response Time (90%): Approx. 7 min.		
		CO2 Sensor			
CO2 Sensor (Internal)	NDIR				

Responsiveness	Response Time	e (90%): Approx. 7 min.	Response Time (	90%): Approx. 7 min.	
		CO2 Sensor			
CO2 Sensor (Internal)	NDIR				
Measurement Channels	CO2 Concentration 1ch				
Units of Measurement	ppm				
Measurement Range	0 to 9,999 ppm				
Accuracy	±(50 ppm + 5 % of reading) at 5,000 ppm or less (*3)				
Measurement Resolution	Minimum of 1 ppm				
Responsiveness	Response Time (90%): 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 (*3)	Endless (Overwrite oldest data when capacity is full) or One Time (Stop recording when capacity is full)				
Communication Interfaces	Short Range Wireless Communication Frequency Range: 869.7 to 870MHz RF Power: 5mW Transmission Range: About 150 meters (500 ft) if unobstructed and direct USB 2.0 (Mini-B connector) Serial Communication: RS-232C (*4)				
External Alarm Terminal (*6)	Output Terminal: Open Drain Output (Voltage when OFF: DC less than 30V / Current when ON: less than 0.1A / Resistance when ON: about 15 $\Omega$ )				
Power	AC Adaptor AD-06C1, AA Alkaline Battery LR6 x 4				
Battery Life (*7)	Approx. 2 days (batteries only without AC adaptor)				
Dimensions	H 96 mm x W 66 mm x D 46 mm (excluding protrusions and sensor) Antenna Length: 60 mm				
Weight	Approx. 125 g				
Operating Environment	Temperature: 0 to 45 °C Humidity: 90 %RH or less (no condensation)				
Compatible Base Units	RTR500BC, RTR500BW RTR-500, RTR-500NW/500AW, RTR-500DC, RTR-500MBS-A				

\*1: Make sure to use the data logger within the operating environment as listed in the specifications. \*2: 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. \*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

\*4: Only "Endless" is available when using the RTR500BW, RTR-500NW/AW or RTR-500MBS-A as a Base Unit \*5: For communication with the Data Collector RTR-500DC (Note: Optional serial communication cable TR-6C10 is required.)

\*6: In order to use the external alarm terminal, please prepare a compatible connector: JST PAP-04V-S.

\*7: Battery life varies depending upon multiple factors including ambient temperature, radio environment, 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

The specifications listed above are subject to change without notice

#### **Initial Settings**

Recording Conditions	Recording Mode: Endless	
	Recording Interval: 10 min.	
LCD Display Pattern	Alternating Display	

### **Hips** Manual Calibration



- This manual calibration must be undertaken in fresh air outside. Also, make sure to stop recording on the RTR-576 first. We suggest that you download the recorded data before calibration.
- For manual calibration, use the batteries in good condition.
- **1.** Turn OFF the <POWER> switch on the unit.
- **2.** While holding down the <DISPLAY> button, turn on the <POWER> switch.
- **3.** Keep holding down the <DISPLAY> button until you see "CAL" in the display.
- **4.** Push the <DISPLAY> button again, and the upper row of the display will show "CAL" while the lower row will show the CO2 concentration. Wait, without exhaling breath upon the unit until the CO2 concentration becomes
- **5.** Once the measurement becomes stable, push the <REC/STOP> button.
- **6.** The display will read "SET" and the calibration process will start (about 1 minute).
- **7.** The process is complete when the display returns to the measurement value display.

Check to make sure that the CO2 concentration values are close to 390 ppm.

#### **Explanation of Symbols**

#### **Explanation of Warning Symbols**



These entries are actions that, if taken, may cause serious personal physical damage or death.

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

#### **Explanation of Picture Symbols**

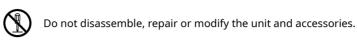
Denotes an important warning or caution.

Denotes a forbidden action.

Denotes an action that should be carried out.

#### **A** DANGER

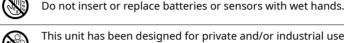
#### **To Prevent Serious Accidents**



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.



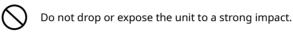
This Unit is not waterproof. If water or a foreign object enters the case, immediately remove batteries and stop using it.



This unit 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.



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.



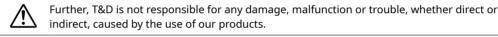
Do not cut or process the sensor cables. Also, do not twist, pull on or swing any of the



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



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



Do not use any power or sensors other than those specified by T&D Corporation.



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

#### **A** CAUTION Do not place or store in the following areas:

- Areas exposed to direct sunlight
- · Areas subject to high temperatures such as near fire or heating equipment
- Areas exposed to static electricity
- Areas exposed to strong magnetic fields Areas exposed to dampness
- Areas subject to condensation or wet areas
- Areas exposed to excessive vibration

· Areas exposed to excessive smoke, dust or dirt.

#### **CAUTION** Other Precautions

- · Use the unit in the specified operating environment. Do not use it for any purpose other than for
- · Condensation may occur inside the case when a unit is moved from one environment to another where there is a great difference in temperature. Be careful to avoid condensation.
- Do not use the unit in wet areas or places exposed to water such as bathroom.
- Do not insert any foreign objects into any of the units' jacks.
- If the unit gets dirty, wipe it with a clean cloth.
- · Please note that this User's Manual has been written based on the presupposition that details about set-up of any necessary equipment to enable network connection have 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, whether direct or indirect, due to the inability to communicate or use communication devices.

## **A** CAUTION

#### Notes and Precautions for Installing Wireless Communication Devices

When installing wireless communication devices take special care in selecting locations so as to ensure proper communication. Note that even after a successful installation, due to changes in environmental conditions, communication errors may occur when restarting the system.

- · As far as possible, try to keep wireless communication devices away from metals and set them up in high unobstructed positions
- Please take note that in many instances, walls, floors, stairs, fences and desks will contain metals. In order to carry out communication between indoor and outdoor units, please locate indoor units near a window so that radio waves can be easily transmitted.
- · Please install the Unit more than 30 cm away from walls or boards containing metal.
- If the Unit is placed in a metal container such as a freezer or refrigerator, the possible wireless communication range will be shortened. In most cases radio waves are transmitted via doors and door openings so place the Unit as near to doors as possible.
- As far as possible, keep the Unit away from noise-emitting sources.
- Equipment such as some industrial instruments, electronic devices or fluorescent lamps generate noise. Please place the Unit more than 1 meter away from such devices.
- Please place the Unit more than 1 meter away from computers and other devices which emit noise.

- · Keep all wires as far away from wireless communication devices as possible. Please be careful about placing near any wiring or cables such as power supply cables, telephone wires or LAN cables.
- Objects which contain lots of water, such as plants or soil, absorb radio waves. We highly recommend that such materials should not be placed between or near wireless communication
- When measuring temperature in a greenhouse it has been reported that as plants grew,
- communication errors also increased Do not place the Unit directly on the ground.
- Do not place Units which are using the same communication frequency channel in the same area. If the same channel is used for multiple units not only will more communication errors occur, but battery life will also be shortened.
- · If there is a possibility that Units with the same frequency channel will be in wireless communication at the same time, please make sure to make changes to the frequency channels so they are not the

#### **Important Notices and Disclaimers**

In order to properly use this product, please carefully read all documents that accompany the product

- · 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 the attached documents without the permission of T&D
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- Specifications, design and other contents outlined in the attached documents are subject to change
- Please follow the safety precautions outlined in the attached documents carefully. We cannot guarantee nor are we responsible for safety if this product is used in any manner other than was
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- Please notify the shop where you purchased this product or T&D Corporation of any mistakes, errors or unclear explanations in the attached documents T&D Corporation accepts no responsibility for any damage or loss of income caused by the use of
- Accompanying documents cannot be reissued, so please keep them in a safe place.
- Please read the warranty and provisions for free repair carefully.

#### Compliance Information

#### **CE Statement**

The RTR-500 Series products are in compliance with the Radio Equipment Directive 2014/53/EU.

<Safety and Health> EN 60950-EN 50663 <EMC>

The following standards have been applied:

EN 301 489-1

EN 301 489-3 <Radio Spectrum> EN 300 220-2 (receiver category 2)

The full text of the EU declaration of conformity is available at the following internet address: http://cdn.tandd.co.jp/glb/manual/DoC\_RTR500\_Series.pdf

## Important Notices

Wireless products cannot be used in countries other than where those products have been approved for use, according to that country's wireless regulations

T&D Corporation shall in no manner whatsoever take responsibility for the usage of these products, nor be liable in any manner for legal consequences stemming from the usage of these wireless products in unapproved areas.

For product information or questions contact us at:

# **T&D Corporation**

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