What is RTR-61?

RTR-61 is a versatile and user-friendly product designed for temperature measurement. It is equipped with a digital LCD display, ensuring easy and clear reading. The product features a robust design, making it suitable for various applications in industry, laboratories, and homes.

- **Key Features**
  - **Digital LCD Display** for clear data visualization.
  - **IP64 Water Resistance** ensuring durability in various environments.
  - **Battery Indicator** for real-time battery status.
  - **Measuring Range**: -10°C to 110°C (22°F to 230°F).
  - **Unit of Temperature**: °C (°F).

**Package of Contents**

- RTR-61 Main Unit (Service included)
- AAA Alkaline Batteries 
- User's Manual (this document)

**Part Names and Functions**

1. **Judgment LED (Red/Green)**
   - This LED indicates the temperature measurement will be shown. Out of Range: Red LED will be on. Within Range: Green LED will be on.

2. **LCD Display**
   - This is used to display the temperature measurement.

3. **Temperature Sensor (Optional)**
   - The RTR-61 is equipped with the Temperature Sensor. It is used to measure temperature in real-time.

4. **Power Button**
   - Press to turn on or off the power.

5. **<REC> Button**
   - Press to start recording.

6. **<C> Button**
   - Press to clear the data.

7. **Value Setting Button**
   - Used to set the temperature range.

8. **Automatic Power Off Function**
   - The power will automatically turn off after 1 minute of no operation.

9. **Auto Backlight Function**
   - The backlight will automatically turn on when the power is turned on.

**Installing Batteries**

**Precaution**: Remove any rubber oil or other fluid from the battery case before replacing the batteries. For more details on battery replacement, refer to the User's Manual.

1. **Open the RTR-61 by pushing up on the bottom of the battery case on the back of the unit.**
2. **Insert 2 AAA alkaline batteries, making sure that the + and - ends are in the correct direction.**
3. **Be sure to securely close the cover until you hear a clicking sound.**

**Battery Life Indicator**

- **Red LED** appears if the battery is low.
- **Orange LED** appears if the battery is medium.
- **Green LED** indicates full battery power.

**Temperature Sensor (Optional)**

- **All-in-one Type Temperature Sensor** (Sensor directly attached to the RTR-61 main unit)
- **Temperature Range**:
  - -10°C to 110°C
  - Unit of Temperature: °C

**RTR-61 Series**

- **RTR-61-210**: Short Temperature Sensor
- **RTR-61-210**: Long Temperature Sensor
- **RTR-61-210**: All-in-One Long Type Set
- **RTR-61-210**: Short Type Set

**Wireless Temperature Sensor**

- **Range**: About 100m (if direct and unobstructed)
- **Measurement Time**: About 1 second
- **Packaging Contents**
  - RTR-61-210: Long Temperature Sensor
  - RTR-61-210: Short Temperature Sensor
  - RTR-61-210: All-in-One Long Type Set
  - RTR-61-210: Short Type Set

**Conclusion**

The RTR-61 is a versatile and reliable temperature measurement device suitable for various applications. Its user-friendly design and robust features make it an ideal choice for professionals and hobbyists alike.
The recorded temperature
Before carrying out wireless communication, it is necessary for the
> button on the face of the unit to scroll down.
> button on the face of the unit to scroll up.
> button on the face of the unit.
C / Please measure and record the
: Upper Limit Error
Select and set the User Name of the person who will measure and record
F 
See the following for the items displayed in the Top Window and the Main Menu Window.

Main Window Names and Functions

Top Window
- By moving the Cursor up and down by pressing the
- The cursor selected item is displayed in white letters on a black

Main Menu Window
While the Top Window is being displayed, pressing the
<REC> button on the face of the unit will display the Main Menu.

Check Data
This is a table of operations for RTR-61. When using, please refer to the following chart.

- Onetime
- New record
- Memory Usage
- Battery Status
- Mode, please carry out the following procedures:

To record a measured temperature while in Remote
Mode, please carry out the following procedures:

- The recorded data item is displayed for about three
- After this, the unit returns automatically to the Top Window.

About PUSH Recording Window

- The recorded data item is displayed for about three seconds.
- After this, the unit returns automatically to the Top Window.

Menu Contents
Details about the Main Menu and the Operational Settings Menu are as follows.

Check Data
Select and set the Measurement item. If User Registration has been made by creating Groups from a
Base Unit, first, select the Group Name from the list in the [Select Item Group] window. Then select the User Name from the last in the [Select Item] window.

Select User
Set Operation
This is a table of operations for RTR-61. When using, please refer to the following chart.

- Messages will be displayed regardless of any mode settings in the RTR-61.
- If the temperature is not stabilized after 15 seconds have elapsed, recording will not
be performed and you will be returned to the Top Window.
- If any settings changes have been made via wireless / Optical communication to the RTR-61 unit in use, a notification message will be
displayed for about two seconds. After that, you will be automatically returned
to the Top Window.

Remote Info
Each RTR-61 can record and store up to 1,800 of data readings. The number
of stored data can be viewed here.

Memory Usage
About Message Display
Even when the power is OFF, an automatic Power-ON may occur to display a message.

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displayed for about two seconds. After that, you will be automatically returned

Measurement Error Messages
If a temperature measurement error occurs, there may be a poor sensor connection. In such a case, an Error Message will appear.