LR5001 HUMIDITY LOGGER

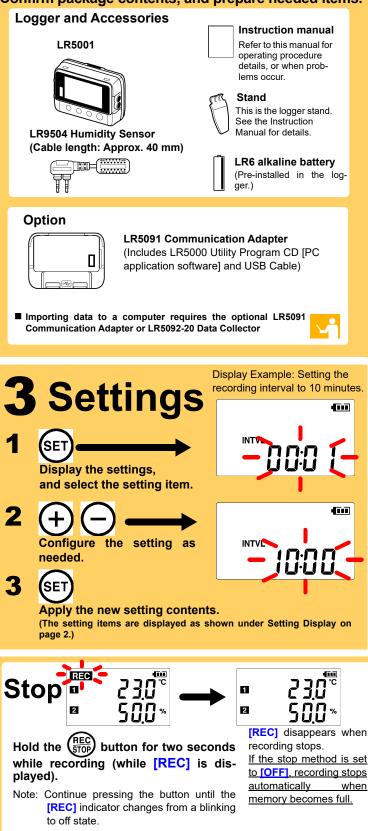
Operation Manual

Mar. 2021 Revised edition 3 LR5001B981-03 21-03H

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Confirmation

Confirm package contents, and prepare needed items. Install the battery and connect the sensor to the logger

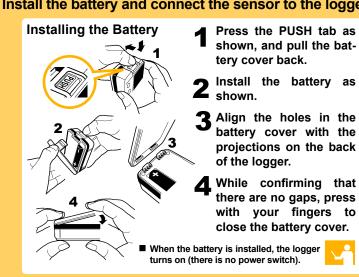


Thank you for purchasing the HIOKI LR5001 Humidity Logger.

This guide introduces the logger's basic EN measurement procedure to first-time users.

Before using the instrument, be sure to read the Instruction Manual carefully

2 Preparations



Connecting a Sensor



Align the triangles on the plug body and in front of the cable jacks, and insert the plug securely. (Insert the protruded parts of the connecting cable into the holes of the device.)

HIOKI

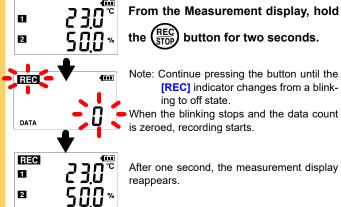
Read First

Besides the LR9504 Humidity Sensor, you can also use an optional temperature/humidity sensor. Use a sensor that is suitable for your application.

4 Recording

Before recording, install the logger and perform pre-measurement inspection. (See the Instruction manual for details.)

Start



Note: Continue pressing the button until the [REC] indicator changes from a blinking to off state.

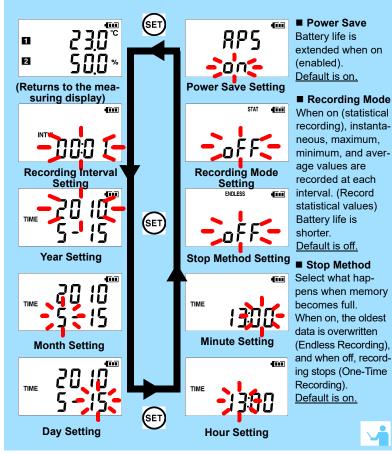
(^{н⊑C}) button for two seconds.

When the blinking stops and the data count is zeroed, recording starts.

After one second, the measurement display reappears

Logger memory contains the data for two recording sessions. (Be aware that old data is erased when starting recording after two recording sessions.) Data can be imported to a computer without stopping recording

Setting Display



Operating Buttons

SET **Displays** settings

(-), (+)

Changes Measurement display contents Changes setting values on the Settings display.

REC/STOP

Hold for two seconds to start/stop recording. From a setting display, switches to measurement display.

- Setting Display:
- Displays settings (recording interval, date and time, etc.) Measuring Display:
- Displays recorded data (measured values, recorded data count. etc.)

Indicators

Battery Status Indicator

REC

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Θ

REC Recording in progress

AL Upper/lower threshold exceeded ENDLESS

Stop method enabled STAT Recording mode enabled

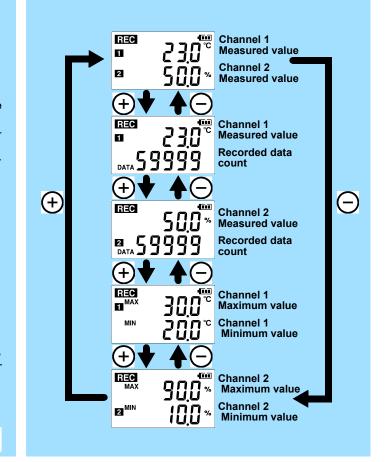
MAX.MIN Maximum and minimum values

Recorded data count

DATA



Measuring Display



Troubleshooting

No measured value is displayed. Is the sensor inserted the wrong way round? Is the sensor inserted as far as possible?

Verify the correct plug orientation, and insert it as far as possible.

	111 3°
1	
2	%

If the values are not displayed despite these mea-

sures, the sensor and logger need to be inspected and repaired.

Please contact your dealer or Hioki representative.

Note: The maximum and minimum values are not displayed when the recorded data count is 0.

The display is blank.

Is auto power saving enabled (set to ON)?

When enabled, the display blanks after 30 seconds of operator inactivity. Press any button or send a communication signal to turn on the display.

■ The [REC] indicator disappears even though recording has not been stopped.

Is the stop method disabled (set to OFF)?

With disabled, recording stops automatically when memory becomes full. To record continuously until stopped by the REC/STOP button, enable the stop method

(In this case, old data is overwritten when the memory becomes full.)

Recorded data has disappeared.

Does recording restart after stopping?

Note that if recording is accidentally restarted after stopping, data recorded prior to the last recording is automatically erased.

(The logger retains the data from both current and most recent prior recording operations.)

■ To erase logger memory

Erase using the PC Utility program. See the Instruction manual for details.

The battery is depleted too quickly.

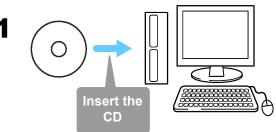
Are you using the battery originally supplied with the logger? Are you using a zinc-manganese battery?

Install a new LR6 alkaline batterv

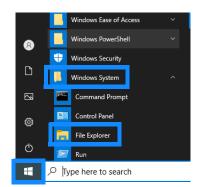
5 Importing and Displaying Data on a Computer 1

Installing the PC Application Program

Required Items: Supplied CD

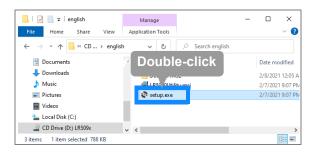


Click [Start] to display the application list. Click [Windows System]-[File Explorer] to start Explorer.



Double-click [setup.exe] (SET UP file).

3



■ LR5000 Utility Program Operating Requirements

- CPU 1 GHz or faster processor clock
- RAM 1 GB or more (32-bit), 2 GB or more (64-bit)
- OS Windows 7, Windows 10
- .NET Framework 4.5.2 or later Library
- Interface
- USB • Monitor Resolution 1024 × 768 or higher
- At least 30 MB free space Hard Disk (Additional space is required for storing recorded data)

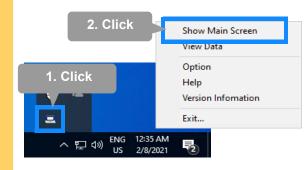
■ What if the PC Utility program cannot be installed?

- · Be sure that the computer meets the above operating requirements
- · Carefully read "Installing the PC Application Program" in the Instruction manual, and reinstall. Pay special attention to the following items
- 1. Be sure to log in using an Administrator account.
- 2. Before installing, be sure to close any programs running on the computer

2 Starting the PC Utility Program

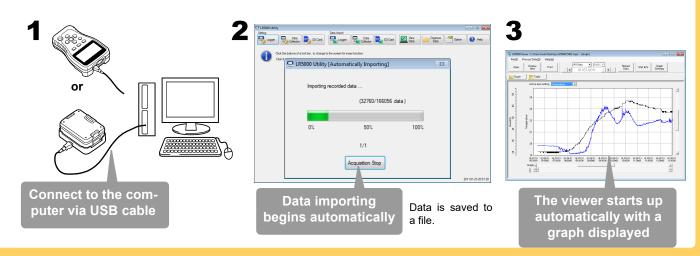
From the Windows [Start] menu, select -[HIOKI LR5000 Utility Software]-[LR5000 Utility] to start the program.

The program starts automatically from the next Windows logon, and the icon appears in the task tray (notification area).



Importing (Saving) Recorded Data to a Computer, and Graph Display

Required Items: LR5091 or LR5092-20 and supplied USB cable



PC Utility Program Features

Making Detailed Settings

Configure settings on the LR5000 "Data Logger" series loggers, and on the LR5092-20 Data Collector.

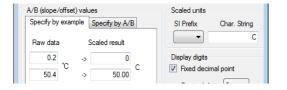
The PC utility program can access settings that cannot be accessed from the logger itself.

For example,

■ Set recording start/stop method and timing to start and stop recording automatically at scheduled times (Timer Measurements).



Measurement data can be freely scaled for display (Scaling).



- Set upper and lower thresholds so that measurements outside of the range cause [AL] (Alarm) to appear on the logger screen (Alarm Judgment).
- Add comments to measurement data.

Processing Recorded Data

Process data imported to the computer.

- Freely scale for display (Scaling)
- Calculate electric power easily (using clamp logger measurement values)
- Calculate energy cost easily (using clamp logger measurement values)
- Calculate operating rate
- Integration
- Calculate dew-point temperature (using temperature/humidity logger measurement values)

Organizing Recorded Data

Sort data imported to the computer.

- Copy (files between folders)
- Move (selected files between folders)
- Delete (selected files)
- Combine
- (multiple recording files into one, and save with new file name) Extract
- (data for a specified period, and save with new file name)

Displaying Recorded Data in a Table

File(E) Process D	ata(D) Help(H)		
Open Disp Bei	ay Print	A	IDate Pelod Graph 01/07/2011 - ▶<> Pelod Stat Info Graph
Graph 📑	Table		
Setal no	100618237	100618237	
Model comment	LR5001	LR5001	
CH comment	Temperature	Hunidty	
Property	Instant value	Instant value	
Unit	°C		
Average	21.9	41.2	
Maximum	23.7	56.1	
Minimum	19.2	29.2	
Integration	327973.2	617488.4	
01/07/11 06:40:42	19.3	32.9	
01/07/11 06:40:44	19.3	32.9	
01/07/11 06:40:45			
01/07/11 06:40:48 01/07/11 06:40:50	19.3	32.9	
01/07/11 06:40:50	19.3	32.9	
01/07/11 06:40:52 01/07/11 06:40:54	19.3	32.9	
01/07/11 06:40:56	19.3	32.9	
01/07/11 06:40:58	19.3	32.9	
01/07/11 06:41:00	19.3	32.9	
01/07/11 06:41:02	19.3	32.9	
01/07/11 06:41:04	19.3	32.9	
01/07/11 06:41:05	19.3	32.9	
01/07/11 06:41:08	19.3	22.9	
01/07/11 06:41:10	19.2	22.9	

Printing Recorded Data

Example Graph Printout

