

RC-1+ Operation Instruction (Data logger)

General description:

RC-1+ is a style of data logger that can be used as many times as necessary by re-setting the parameter.

It features as reliable performance, small size, easy to install and convenient carrying, specifies all the functions of well water and dust proof properties, can save and check the data more reliably.

Please insert the card reader into the data logger, transfer the data by connecting the computer with USB interface, data processing software easy to operate, can be applied to many kinds of operating software like: Windows98, NT, 2000, XP, Vista.

RC-1+ is used in all walks of life which are accordant with HACCP System Certificate as well. Furthermore, it can be used in locales where need temperature supervision, such as labs foodstuffs and medicine, cold chain transportation etc.



Specification and size:

Maximum size: 72mm(Length) × 45mm(Width) × 12mm(Height)

Main technical parameters:

1. Power supply: One CR2450 lithium battery(inserted)
2. Temperature measuring range: -40.0°C~+70.0°C
3. Accuracy: ±1°C
4. Displaying resolution: 0.1
5. Recording interval: 10 seconds~16mins continuous setting
6. Record time length: 89 days (MAX)
7. Recording capacity: Temperature: 8000 points (Max.)
8. Ambient environment of shell: Temperature: -35°C~+70°C; Humidity: 0%~95%
9. Data output: Connect the computer with USB interface to transfer data
10. Safe level: IP65



Primary use:

1. Install the RC-1+ temperature data logger data dealer software.
2. Connect the RC-1+ reader with the computer by USB data line, finish the driving installment following the installation cue, and please refer to the driving installation guide in the attached CD (USB driving and installation guide).
3. Please insert the reader to the data logger and pay attention to the insertion direction.
4. Click the software, and click the  to check the connection information, then exit from the connection interface.
5. Click the  to set the parameter, after all the parameters setting been finished, save the modified parameter and exit the parameter setting.
6. Exit the data dealing software.
7. Start up the data logger: Press the "Start" key for over 4s, meantime the green OK indicator flashes for 3 times, then the data logger is activated to start recording.

Obtain the recording data:

The recording data can be checked and obtained directly from the data logger, this won't

delete the data, and the recording status will continue and won't be interrupted during your check procedure.

1. Insert the data logger into the Reader, then connect the Reader with the computer.
2. Open the software by clicking to the  in the toolbar, then exit from the interface after checking the connecting information.
3. Transfer and upload the already recorded data to the computer by clicking to the .

Function description:

The parameter is set and adjusted in computer by USB interface, the detail information; please refer to the "HELP" file in computer software.

1. The indicator light status instruction of the "Start" key and the green OK indicator light: Press the "Start" key and release it, the green OK indicator light flashed for 2 times, it indicates the data logger is under not recording status.

Press the "Start" key and release it, the green OK indicator light flashed for 3 times, it indicates the data logger is under recording status.

Press the "Start" key and release it, the green OK indicator light flashed for 4 times, it indicates the data logger is under end-recording status.

Press the "Start" key and release it, the green OK indicator light has no response, it indicates battery capacity is low or the data logger works abnormally.

2. Start up the record:

After setting the parameter by operation in the computer by USB, press the "Start" key for over 4s, meantime the OK indicator light flashes for 3 times, recording starts to work.

3. The way to stop the recording (3 way)

① Stop the recording by operating the computer software.

② Stop the recording after the storage room is full.

③ When the setting mode is: Press the key to stop the controller is allowed, that is to press the key for over 4s, the green OK indicator light flashes for 4 times, then the recording is stopped.

4. Red ALERT indicator light indicating status instruction:

During the recording process, the measuring temperature is ≥ temperature upper limit, and when the ≤ the temperature lower limit, the red ALERT indicator light flashes.

5. Recording interval: Data logger will record and save the data according to the set recording time interval. After finishing setting the recording interval, software will automatically calculate the recording time length if you put the mouse on the recording time length parameter window. Recording time length: It means the consumed time during the whole recording process. After finish setting the time length, software will automatically calculate the recording interval by putting the mouse on the recording interval parameter window.

6. Clock and calendar function: Data logger specifies the clock and calendar function, and the clock time can be adjusted and set in computer.

7. Battery capacity detection: Click the  to check the battery capacity status.

Battery capacity indicator	Capacity
Blue color	25%~100%
Yellow color	10%~25%
Red color	<10%

Note: the power energy can be continued to be supplied by internal CR2450 battery when the backup battery is used up.

8. Sensor error:

Error code is recorded when temperature exceeds the temperature limit(lower than the -40°C or higher than 70.0°C), or when data logger is short circuit or open circuit, the error code can be checked in computer software.

9. Data software

Data analysis function, data is displayed in the data list and in the curve driving analysis, display alarm sign and mark when temperature exceeds temperature limit, the already recorded data can be checked, saved. Also can be printed in the form of WORD format.

Facility list:

- ◇ RC-1+ Temperature Data Logger (one)

Note: 1data logger is equipped with one small package, 10 small packages is contained in 1 bigger size.

- ◇ Fixed mount (one)

The accessories of RC-1+ Reader:

- ◇ RC-1+ Reader with package
- ◇ CD for installation of computer software (one)
- ◇ Operating instruction (one)

Figure is as following:

