RC-500 Double Channel Temperature Recorder Instructions

General description:

RC-500 Double Channel Temperature Recorder is widely used for the storage and transportation of the foodstuff, medicine, fresh and live goods. It is used in the 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. RC-500 Temperature Recorder has features as following: stable performance, small size, large data recording capacity, high accuracy and low watt consumption, etc.

Main Technical Parameters:

Temperature measuring range: -40.0℃~120.0℃

Accuracy: ±0.2℃ (−20℃~+30℃); ±0.5℃ at other temperature range

Displaying resolution: 0.1

Sensor: PT1000 Platinum Resistance

Recording cycle: Normal mode 2 seconds~24hours continuous setting

Low watt consumption mode 10seconds~24hours continuous setting

Recording capacity: Double channel temperature-8000 points separately (Max.)

Ambient environment: Temperature: -35℃~70℃ Humidity: 0%~95%

Power supply: One 2.4Ah 3.6V non- chargeable lithium battery

(Continuous work at 1~2 years, depending on specific conditions)

Data output: Connect the computer with RS-232 interface to transfer data

Safe level: IP65

Descriptions of function:

Computer controls both the parameter setting and working mode of RC-500. Detailed usages are descried in the "Help" menu of configured computer software.

◆ Descriptions of LCD status:

Busy: Under busy status, apparatus enters into normal work mode after restarting and transitting this status

Lw: Low watt consumption work mode

Wait: Waiting for Temperature data under Low watt consumption work mode

Record: Under recording mode End: Record-end : Quantity of electricity display

◆ Work mode and display status:

Work mode	Display status
Low watt consumption non-recording mode	LW Wait
Low watt consumption Recording mode	LW Wait RECORD Display Temperature value when recording
Normal recording mode	RECORD Temperature value
Normal non-recording mode	Temperature value

◆ Record and stop mode: Display END after stop recording

Record start-up mode	Record stop mode
Immediate start-up	Stop when storage full
Time-lapse start-up	Stop as per the times
Timing start-up	Timing stop

◆ Time interval setting

Mode	Record time interval	Real-timely transmit time interval
Low watt consumption Recording mode	10 seconds-23hours59mins59seconds	
Normal recording mode	2 second-23hours59mins59seconds	2 seconds-23hours59mins59seconds
Low watt consumption non-recording mode		
Normal non-recording mode		2 seconds-23hours59mins59seconds

◇ Internal clock calendar, clock adjustable by computer

◇ Quantity of electricity detection: Display quantity of electricity status of the battery

◇ Key-press operation: After press the keys, LCD firstly displays the current time _ o' clock _ minute, then displays the current temperature.

Sensor error:

Display error code "1EE" when sensor of the first channel temperature exceeds the temperature measuring range (<-40.0℃ or >120.0℃), short circuit or open circuit

Display error code "2EE" when sensor of the second channel temperature exceeds the temperature measuring range (<-40.0℃ or >120.0℃), short circuit or open circuit

Notices of operation:

◆ In order not to affect the measurement accuracy , battery replacement is advisable when the displaying quantity of electricity is less than two cases. Open the cover board, the left side is cathode and the right side is anode when face the battery socket. Pay attention to the polarity of the battery. After replacement, reconnect with the computer to make sure whether there is a need to adjust the clock.

◆ Manual reset: Inferior of the battery socket are two resetting plug needles, instantly short-circuit the two plug needles to reset the meter. Please contact our dealers or our company if meter can not normally work after resetting.

◆ Data transmission: Serial port plug connects the computer's serial port with the attached appropriative connecting cables, and USB plug connects with the meter when data transmission into computer is needed

◆ Work mode selection:Select "Low watt consumption recording mode" when recording cycle>10 seconds, select "Low watt consumption non-recording mode" when recording is unnecessary in order to economize power energy and prolong the battery's life.

◆ Facility list:

◇ RS232 communication line (one)

◇ Temperature sensors with five-meter connecting line (two)

◇ CD for installation of Computer software (one)

◇ Operating instruction (one)

◇ RC-500 Temperature Recorder (one)

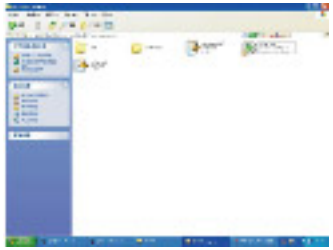
◇ Fixed mount (one)

◇ Spare parts: Commutator from USB to RS232 serial port

◆ Installing process of software attached

Enclose: Process of software installation

1、Put the installation CD into the CD-ROM, open the files and figure A-1 pop-up



(figure A-1)

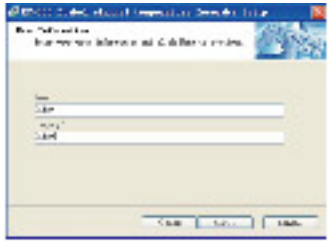
2、Double click "SETUP" order, figure A-2 pop-up, then click "Start install"

(figure A-2)

3、Clue to install the set up applications of RC-500 Double Channel Temperature Recorder into the computer (see figure A-3), click "Cancel" to quit from installing procedure, then click "Next" to continue to install

(figure A-3)

4、Input the users' information, do not click "Next" until the two items are filled in (see figure A-4)

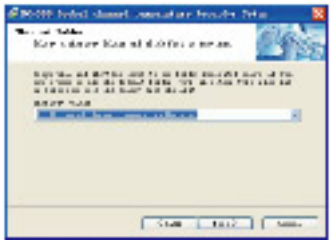


(figure A-4)

5、 Select the installing route, then click "Next" to continue to install (see figure A-5)

(figure A-5)

6、Select the saving position of the system's shortcut type, the default name of the file is "RC-500 Double Channel Temperature Recorder" (see figure A-6), then click "Next" to continue to install



(figure A-6)

7、 Cue of installing preparation, click "Next" to continue

(figure A-7)

8、Interface of installing fulfillment (see figure A-8), click "Finish" to finish the installation of the system

(figure A-8)