

COS-04-X USB type temperature and humidity recorder User manual





Shandong Renke Control Technology Co., Ltd

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1.product description

The recorder is mainly used to monitor the temperature and humidity data of food, medicine, chemical products and other products during storage and transportation. It is widely used in all aspects of warehousing and logistics cold chain, such as reefer containers, refrigerated trucks, refrigerated bags, Cold storage, laboratories, etc.

1.1 Features

- The recorder comes with a high-precision temperature and humidity sensor for accurate temperature and humidity measurement.
- Built-in storage function, can record 260,000 temperature and humidity data, and can expand up to 2.08 million data.
- Connected to the computer via USB cable. The software stored in the device can be exported to the computer in EXCEL, TXT, PDF and other formats to facilitate subsequent report production and data analysis.
- The notebook has its own LCD screen that displays real-time temperature and humidity values.
- The Sakamoto Recorder uses a large-capacity rechargeable lithium battery that can be used continuously for one year on a single charge.
- Built-in buzzer with over-limit alarm function, can automatically change the recording frequency when alarming, to ensure that the recorded data truly reflects the environmental changes.

You can set the timing to start recording and stop the recording function. When using multiple recorders, make sure that the device starts recording at the same time and stops at the same time.

1.2Product number

Product	number	Description
COS-04	-0	Sensor built-in type
	-5	Sensor external type; probe line length defaults to 0.6 meters, up to 30 meters, remarks when ordering



Equipment power supply		DC5V pc	owered or built-in battery	
Recording capacity			260000 group	
		Probe built-in type	-20~+60°C	
Measuring range	g range temperature	Probe external type	-40~+80°C	
	humidity		0~100%RH	
measurement	temperature		±0.3°C (25°C)	
accuracy	humidity	±2%RH(5~95%RH,25°C)		
Recording interval		5 seco	onds to 18 hours to set	
Measurement update time		2~	255 seconds to set	
	1	full charge car	work continuously for one year	
Battery Life	The maximum	m number of cy	cles of charge and discharge of the battery is 1200 times.	

1.3 Technical Parameters

1.2. Quickly use the recorder to record data

2.Install the USB Recorder Management System" **SUSBLogger中文版.exe** ", After the installation is complete, open the software.

3. Connect the recorder to the computer via the USB cable. After the driver installation is complete, click the "Device Configuration" button on the software interface. Set the device time or modify the device parameters as required, and then click "Write

Device".



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设备型号	COS-O3	设备时间
设备名称	USB温湿度记录仪	2017-07-18 16:58:45 设为当前
MAC	12345678	
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延时启动 屏显时间 测量更新时间	0会 (分钟) 00:00:00 H:M:S 00:00:02 H:M:S	温度上限 100.0 温度下限 -40.0
定时启动 完时信止		· · · · · · · · · · · · · · · · · · ·

3.Unplug the USB cable, take the device to the environment to be tested, and press and hold Key waiting " Lights up to start recording.

3.4. Exit the USB Recorder Management System.

4.4. Exit the USB Recorder Management System.

1. You can get the historical data information of the record from the record. This process will not clear the stored data of the recorder itself. If the recorder is still in the recording state, the process of extracting data will not affect the working state of the recorder.

2. Open the USB recorder data management system.

3. Connect the recorder to the computer via the USB cable, and the software will automatically read all the data stored in the device.

4. Select "Report", select the start and end time, click "Refresh", the software can get the record data of the device, click "Export" to select TXT, XLS, PDF format, select the save path and click OK to export the data.

5. You can also store the data in a computer database and click on "Save in Database".





4. Functional Description



Serial number	Description
1	Wheel display humidity and system time
2	Is it in the parameter modification mode prompt
3	Remaining battery display
4	Wheel display temperature and number of stored
5	Whether online
6	Temperature or humidity alarm prompt

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7	Record status is stopped
8	Record status is in record state

If the recorder does not operate for 20 seconds, it automatically enters the low power mode. The screen refresh time is slowed down to 1 second to refresh.

If the recorder is in the off display state, short press O After entering the key, enter the temperature and humidity display interface.

4. Operating instructions

5.1 Key Description

button	Features	Description	Button operation
			mode
Left	Shift key	• Exit operation when parameter setting	short press
button	Page up	• Front page flip button when viewing	short press
		menu	
	return key	• Return to the main menu when the	short press
		interface is set or viewed	
	Shutdown button	• Device shutdown	hold down
	Power button	• Device boot	hold down
Right	Page backward	• Page view button	short press
click	Increase key	• Data increase button when parameter is	short press
		modified	
	Enter	• Confirm the button after modifying the	hold down
		parameters	

5.2 Start record

After the USB recorder management system sets the recorder parameters, the recorder is in the record not activated state, and long presses in the status display interface. 0 key, On the screen " \checkmark " The symbol lights up to start recording.

Note: After the USB recorder data management system configures the recorder parameters, the previous historical data will be cleared. Please read and save the historical data of the recorder before setting the parameters.

5.3 Stop recording

(1) Recording is automatically stopped when the storage space is full. In the status display interface " \blacksquare " When the symbol is lit, the recording is stopped.

(2) Long press after setting the allow button to stop recording 0 key, In the status display



interface "**U**" When the symbol is lit, the recording is stopped.

5.4Function display item description

Short press under the main interface , Enter the password, the default password is 000, long press , Can enter the menu setting interface.

Short press when entering your password Increase or decrease, short press The key is shifted.

Menu number	Features	Scope and description	default
1.	Set the temperature calibration value	-99.9~999.9	0
2.	Set the humidity calibration value	-99.9~999.9	0
3.	Set the upper temperature limit	-99~999	100
4.	Set the lower temperature limit	-99~999	0
5.	Set the upper humidity limit	-99~999	100
6.	Set the lower humidity limit	-99~999	0
7.	Set clear history data	0 means no clear, 1 means clear	0
8.	Set time	00:00~23:59, Can only set hours and minutes	Hours and minutes of system real time
9.	set password	000~999	0
А.	Set buzzer alarm enable	0 means prohibited, 1 means enable.	1, Alarm enable
b.	Set the normal recording interval	0~9999, 0Representative does not record	3 minutes
C.	Set the alarm logging interval	0~9999, 0Representative does not record	5 minutes

5.4.1Set parameter operation instructions

D: Left button。 **D**: Right click.

1.In the temperature and humidity display interface, short press "Right button" to enter the password input interface, short press "Right button" to add the current number, press the "Left button" button to shift, the default password is "000", after entering the password, long press "Right click" enters the setting interface, first enter the wireless wake-up time interface, short press "right click" to page down, short press "left button" to page up, through page turning, you can enter different parameter setting interface, the following is the parameter setting Detailed description of the interface.



2.After a button operation of 20S in a certain setting interface, the device will automatically enter the main interface of temperature and humidity display.

3.Set the temperature calibration value

4. After entering this interface, display the current temperature calibration value, short press "Right click" to page down to enter "2. Set humidity calibration value" interface, short press "Left key" to page up to "C. Set alarm recording interval" Press and hold the "Right button" to start setting the decimal place of the temperature calibration value. Short press "Right button" to adjust the decimal place value, short press "Left button" to shift, after setting the calibration, long press "Right button" to save the current setting value. After the setting is successful, the interface will flash 5S. After the interface is stable, press "Right button" to enter the set temperature calibration value again, long press "Left key" Return to the temperature and humidity display interface.

5.Set the humidity calibration value

6. After entering this interface, display the current humidity calibration value, short press "Right

button" to page down to enter "3. Set temperature upper limit" interface, short press "Left button" to page up to "1. Set temperature calibration value" Press and hold the "Right button" to start setting the decimal place of the humidity calibration value. Short press "Right button" to adjust the decimal place value, short press "Left button" to shift, after setting the calibration, long press "Right button" to save the current setting value. After the setting is successful, the interface will flash 5S. After the interface is stable, press "Right click" to page down to enter "3. Set temperature upper limit" interface, long press "Right button" to enter the set humidity calibration value again, long press "Left" The key "returns to the temperature and humidity display interface.

7.Set the upper temperature limit

8. After entering this interface, display the current temperature upper limit value, short press "Right click" to page down to enter "4. Set temperature lower limit" interface, short press "Left key" to turn up page to enter "2. Set humidity calibration Value", long press "right button" to start setting the single digit of the upper temperature limit, short press "right button" to adjust the single digit value, short press "left button" to shift, after setting the upper temperature limit, long press "right button " Save the current setting value. After the setting is successful, the interface will flash 5S. After the interface is stable, press "Right click" to page down to enter "3. Set temperature lower limit" interface, long press "Right button" to enter the upper limit of setting temperature again. Press and hold the "left button" to return to the temperature and humidity display interface.

9.Set the lower temperature limit

10. After entering this interface, display the current temperature lower limit value, short press "Right click" to turn to the "5. Set humidity upper limit" interface, short press "Left key" to turn up the page to enter "3. Set temperature Limit value", long press "right button" to start setting the single digit of the upper temperature limit, short press "right button" to adjust the single digit value, short press "left button" to shift, after setting the upper temperature limit, long press "Right click to save the current setting value. After the setting is successful, the interface will flash



5S. After the interface is stable, short press "Right click" to page down to enter "5. Set humidity upper limit" interface, long press "Right button" to enter the lower limit of setting temperature again. Press and hold the "left button" to return to the temperature and humidity display interface.

11.Set the upper humidity limit

12. After entering this interface, display the current humidity upper limit value, short press "Right click" to turn to the "6. Set humidity lower limit" interface, short press "Left key" to turn up the page to enter "4. Set temperature Limit value", long press "Right button" to start setting the ones of the upper humidity limit value, short press "Right button" to adjust the ones digit value, short press "Left button" to shift, after setting the temperature upper limit value, long press " Right click to save the current setting value. After the setting is successful, the interface will flash 5S. After the interface is stable, short press "Right button" to enter "6. Set humidity lower limit" interface, long press "Right button" to enter the upper limit of humidity again. Press and hold the "left button" to return to the temperature and humidity display interface.

13.Set the lower limit of humidity

14.After entering this interface, display the current humidity lower limit value, short press

"Right click" to page down to enter "7. Clear historical data" interface, short press "Left key" to turn up the page to enter "5. Set humidity upper limit value Press and hold the "Right button" to start setting the ones of the lower limit of the humidity. Short press the "Right button" to adjust the value of the ones. Short press the "Left button" to shift. After setting the upper temperature limit, long press the right button to save the current Set the value. After the setting is successful, the interface will flash 5S. After the interface is stable, press "Right click" to page down to enter "7. Clear historical data" interface, long press "Right button" to enter the lower limit of humidity again, long press "Left button" "Return to the temperature and humidity display interface.

13.7.15. Clear historical data

After entering this interface, the current humidity lower limit value is displayed. Short press the right button and turn to the page to enter the "8. Set time" interface. Short press the "left button" to page up to enter "6. Set the humidity lower limit value", long press " Right click to enter the setting, short press "Right button" to adjust the one-digit value. Set to 1 to clear the data. After setting the value, set it to 1 and press "Right button" to clear the data. After clearing, the interface will flash 5S, wait for the interface. After stabilization, short press "Right click" to page down to enter "8. Set time" interface, long press "Right button" to enter clear data setting again, long press "Left key" to return to temperature and humidity display interface.

8. Setting time

After entering this interface, the current time and minute are displayed. Short press "Right click" to page down to enter "9. Set password" interface, short press "Left key" to page up to enter "7. Clear historical data", long press "Right click"" Start setting the digits of the minute, short press "Right button" to adjust the digit value, short press "Left button" to shift, after setting Shandong Renke Control Technology Co., Ltd 11 www.renkeer.com



the time, press "Right button" to save the current setting value. After the setting is successful, the interface will flash 5S. After the interface is stable, press the "Right click" button to enter the "9. Set Password" interface. Press and hold the "Right button" to enter the setup time again. Press and hold the "Left button" to return to the temperature and humidity display interface.

9.set password

After entering this interface, the current password is displayed. Short press "Right click" to page down to enter "A. Set buzzer alarm enable" interface, short press "Left button" to page up to enter "8. Set time", long press "Right button" starts to set the ones digit of the password, short press "Right button" to adjust the ones digit value, short press "Left button" to shift, after setting, long press "Right button" to save the current setting value. After the setting is successful, the interface will flash. 5S, after the interface is stable, short press "Right button" to page down to enter "A. Set buzzer alarm enable" interface, long press "Right button" to enter the setup password again, long press "Left button" to return to temperature and humidity display interface .

A.Set buzzer alarm enable

After entering this interface, the current status is displayed, 1 means enable, 0 means disable, short press "right click" to page down to enter "b. set normal recording interval" interface, short press "left button" to page up to enter 9. Set the password, press and hold the right button to start setting, press the right button to adjust the state. After setting, press and hold the right button to save the current setting. After the setting is successful, the interface will flash 5S. After the interface is stable, press short. Right click "Flip down" to enter "b. Set normal recording interval" interface, long press "Right button" to enter the setting buzzer alarm enable again, long press "Left key" to return to the temperature and humidity display interface.

In the main interface state, short press 1 to query the maximum temperature, maximum humidity, minimum temperature, and minimum humidity of the stored data. The specific display is as follows:



minimum humidity value of the stored data.



maximum humidity value of the stored data.

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Display the maximum temperature value and

Display the minimum temperature value and



b.Set the normal recording interval

After entering this interface, the current password is displayed. Short press "Right click" to page down to enter "C. Set alarm record interval" interface, short press "Left button" to page up to enter "A set buzzer alarm enable", long Press "Right button" to start setting the digit of the recording interval, short press "Right button" to adjust the digit value, short press "Left button" to shift, after setting, long press "Right button" to save the current setting value. After setting successfully, the interface is successful. It will flash 5S. After the interface is stable, press the right button and scroll down to enter the "C. Set Alarm Record Interval" interface. Press and hold the "Right button" to the temperature and humidity display interface.

C.Set the alarm logging interval

6.After entering this interface, the current password is displayed. Short press "Right click" to page down to enter "1. Set temperature calibration value" interface, short press "Left key" to page up to "b. Set normal recording interval", long press "Right click to start setting the ones of the alarm recording interval, short press the "right button" to adjust the ones digit value, short press "left button" to shift, after setting, long press "right button" to save the current setting value. After the setting is successful, the interface will be After flashing 5S, after the interface is stable, press the right button and click the page to enter the "1. Set temperature calibration value" interface. Press and hold the "right button" to return to the temperature and humidity display interface.

7.Data Management Software Instructions



After the software is installed, it will be produced on the desktop." 50. 2000 "8. Icon, double click to open the software.

6.1export data

Open the USB recorder data management system and connect the recorder to the computer via the USB cable. Click "Import Data" to import the data stored in the recorder into the data management system.

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Click "Report", select the start and end time of the data to be exported, click "Refresh", and then select the exported format (TXT/XLS/PDF) to save the data to the specified path (take PDF as an example), prompting the export success.

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6.2save data

After importing the data, click "Save to Database"



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-				8	×			X	1
学人致知道	仔人多	奴据库	清除设备数据	童间	设备配查	设备状态	今田IXI	导出XLS	导出PDF
252句	曲经	北主							

Name the database file for future query, click "OK" to save the data successfully..

设备型号		COS-0:
总记录段数		17:
记录名称	COS-O3 USB晶晶度1	2录仪_2017-07-

6.3 Query data

For the data that has been saved to the database, you can query it through the USB recorder management system, click the toolbar

"query"

USB	记录仪数	据管理到	兵统				- 2-		
文件	设备	数据库	章 帮助						
	Ĺ	J		Q	X	-	1	X	1
导入数据	目 存入	数据库	清除设备数据	查询	设备配置	设备状态	导出TXT	导出XLS	导出PDF
查询	曲线	报表			94 				
查询方	īर्ट	1010048350365	275		<i></i>	查询结果			记录详细

You can choose the query method and click on the query.

By record name: Query by name saved in database

Query by deposit date: query by time saved in database



🖥 USB Logger Data Management System			
File Device DataBase Help			
Data Import Store To DataBase Clear Device Data	Query Device Configuration De	vice Status Export TXT Export XLS Export PDF	
Query type	Query result	Record details	
By record nume I Furzy match By save date Begin time 2017-07-26 09:52:42 T End time 2017-07-26 09:52:42 Query	4 • • • •	Record name Device Device name Create time Operation Show data Show curve) Temperature Hunidity *	Rename Delete RecordTime

USB Logger Data Management System					
File Device DataBase Help					
ata Import Store To DataBase Clear Device Data	Query Device Configuration	Device S	tatus Export T	XT Export XLS Export P	DF
uery Curve Report					
Query type ◎ By record name	Vuery result [005-03_THH: [2]/, 2017-07-26	Rec Rec Dev Dev Cre	ord details ord name COS ice ice name ate time	-03_TH监控仪_2017-07-28 COS-03 TH监控仪 2017-07-26 16:18:12	
By save date Begin time 2017-07-20 09:52:42 □▼		Ope	ration	Show data Show curve	Rename Delete
End time 2017-07-26 23:52:42			Temperature	Humidity	RecordTime
			27.4	52.3	2017-07-25 15:51:43
			27.4	52.3	2017-07-25 15:51:48
Query			27.4	52.4	2017-07-25 15:51:53
			27.4	52.3	2017-07-25 15:51:58
			27.4	52.4	2017-07-25 15:52:03
			27. 4	52.5	2017-07-25 15:52:08
			27.3	52.6	2017-07-25 15:52:13
			27.3	52.6	2017-07-25 15:52:18
			27.3	52.5	2017-07-25 15:52:23
			27.3	52.5	2017-07-25 15:52:28
		-	27.3	52.6	2017-07-25 15:52:33
			N. SPORACA	Charles and the	Concernent and the second seco

Double-click the query to the results to perform the "View Data", "View Curve", "Rename", "Delete Record" and "Export" operations.



m 💼 🖬 🗾
Image: Second system Image: Se
Query result Record details
uzzy match Lucendo Linminator 2011-01-26 Device name COS-03_IN語控(2017-07-26 Device name IN語控(2017-07-26 Device name IN語控(2017-07-26 Device name IN語控(2017-07-26)
Dperation Show data Show curve Rename Delete
Temperature Hunidity RecordTime
27.4 52.3 2017-07-25.15.51.43
27.4 52.3 2017-07-25 15:51:48
y 27.4 52.4 2017-07-25 15:51:53
27.4 52.3 2017-07-25 15:51:58
27.4 52.4 2017-07-25 15:52:03
27.4 52.5 2017-07-25 15:52:08
27.3 52.6 2017-07-25 15:52:13
27.3 52.6 2017-07-25 15:52:18
27.3 52.5 2017-07-25 15:52:23
27.3 52.5 2017-07-25 15:52:28
27.3 52.6 2017-07-25 15:52:33
27.3 52.6 2017-07-25 15:52:38 *
27.3 52.6

6.4 Set the recorder parameters

Connect the device to the computer via the USB cable and click on the "Device Configuration" toolbar.

USB Logger Data Management System							
File Device DataBase Help		N #	1.000	0	0-	a	
	4	Paulia Caulinantia	Dening Otatura	Former TVT	Evene VIC	Europh PDE	
uery Curve Report	Query	Device Configuration	Device status		Export ALS	Export PDF	
		191					

Device Model		COS-03	Device time	7
Device Name		TH监控仪	2017-07-26 16:22:28	Timming
MAC		30303000		
		Tannavatuva unit	Allow key to stop record	
Record Interval	00:00:05 H:M:S	Calsins	Allow key to stop alarm	
Alarm Record Interval	00:00:05 H:M:S	🔘 Fahrenheit	📝 Allow beep on key-down	
Delay on alarm	00:00:10 H:M:S			
Delay on start	0 🚔 Minute			
Shut screen time	00:00:05 H:M:S		Temperature upper limit	37.0
Undate time	00:00:02 H M S		Temperature lower limit	-25.0
Tinud name			Humidity upper limit	100.0
Timed start		Timed boot storage	Humidity lower limit	0.0
		_		

After editing the device parameters, click "Write Device" to write the parameters to the recorder.

Device model: factory default, not modifiable

Device name: Custom, you can name the recorder yourself

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www.renkeer.com



MAC: Factory default, not modifiable

Device time: can synchronize the clock time of the recorder

Normal recording interval: set the interval at which the recorder stores data (minimum 5S)

Alarm recording interval: set the recording interval after the temperature and humidity of the recorder exceeds the limit

Alarm delay: If this value is set to 10S and the upper temperature alarm is enabled, the device will consider the device to exceed the upper limit alarm if the temperature exceeds the upper limit and exceeds the upper limit time for more than 10 seconds. If the temperature exceeds the upper limit duration, the device considers the temperature. There is no upper limit; this parameter is also valid for the lower temperature alarm, the upper humidity alarm, and the lower humidity alarm.

Delayed start: set the start time of the recorder, the default is 0 seconds, you can not modify

Screen display time: set the time when the recorder turns off the screen display. If it is set to 0, it will not turn off the screen.

Measurement Update: setting recorder data acquisition interval

Timed start/timed stop: After the storage is started when the check is selected, the recorder can be set to store data within the specified time period.

Allow button to stop recording: After checking, you can press the button on the recorder to stop recording.

Allow button to stop alarm: When checked, when the recorder exceeds the limit sound and light alarm, you can press the button to turn off the sound and light alarm.

Allow button sounds: turn button sound off or on

Upper temperature limit: set the upper temperature alarm value

Lower temperature limit: set the lower temperature alarm value

Humidity upper limit: set the humidity upper limit alarm value

Lower humidity limit: set the lower limit alarm value

6.5 View current device status

Select Device Status from the toolbar to learn the current status of the connected device.





MAC	30303000
Software Version	1.00
Hardware Version	1.00
DeviceTime	2017-07-26 16:43:00
Device orking state	In record
Last online time	2017-07-26 10:29:36
Record start time	2017-07-25 15:40:38
Estimated stopping time	2017-08-09 16:47:15
Actual stopping time	-
Memory chip status	normal
Current temperature	26.3
Current humidity	66.6
Temperature unit	Celsius

MAC address: MAC address of the current device

Software version number: version of the current software

Hardware version number: version of the device

Device time: the current time of the device

Current working status: recorded / stopped

Last online time: The last time the device connected to the data management system

Record start time: The time at which the device starts recording data storage

Estimated stop time: According to the current recording interval, if no one stops recording, the

device can record the stop time normally.

Actual stop time: the time to stop recording manually

Memory chip status: normal / abnormal

Current temperature: equipment temperature

Current humidity: equipment humidity

Temperature unit: temperature unit

6.6 Clear device data

Select "Clear Device Data" on the toolbar and click "OK" to clear the device data.





7.Installation Notes

The device can be hung wherever it can be hung, use a lanyard to hang the device





8. Contact information

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Web QR:



9. Document history

V1.0 document creation V1.1 Modify product description Appendix: Housing dimensions



