

## **TEMPERATURE & HUMIDITY RECORDER**

User Manual for SRTH100-2001D-6401



### Product Description >>>

Temperature and humidity recorder are mainly used in the storage or transportation of food, pharmaceuticals, greenhouses, chemical supplies and other products. They are widely used in various links such as warehousing, logistics, cold chain, refrigerators, containers, cold storage, drug warehouses, underground storage warehouses, laboratories, etc. They can be combined with user's computer software and IoT technology to effectively perform statistical analysis on temperature and humidity data.

Thank you for choosing L-com product. To ensure safe, accurate performance and product longevity, please take a moment to familiarize yourself with this manual before powering the device. Please keep it handy for future reference. In case of any questions regarding the installation or use of product, please call us at 800.341.5266.

Reach out to us at customerservice@l-com.com and visit our website at www.l-com.com

#### Features >>>

- Display Interface: Large screen LCD display with online settings of parameters like storage time interval, data upload frequency, temperature and humidity alarm value.
- Measurement Accuracy: Highest measurement accuracy can reach 1.5%RH, ±0.1 °C.
- Signal Output Mode: Supports RS485
- Storage Capacity: High speed USB interface, large capacity storage, can store 1
  million sets of data.
- Sound and Light Alarm: With sound and light alarm function, one control relay

### Technical Index >>>

Measuring Range	Build-in probe: 0-100%RH, -20 ~ 70 °C
Temperature Accuracy	Ordinary Accuracy ±0.2 °C
Humidity Accuracy	Ordinary Accuracy ±2% RH
Data Export Interface	USB
Display Method	Segment LCD
Number of Channels	1 Channel (Build-in temperature and humidity)
Operation Method	Button
Power Supply	Micro USB external power supply
Data Viewing Method	Digital display
Average Power Consumption (Battery Powered)	4G version 1.1 mA, data upload frequency 1 hour every time; NB version 0.8mA data upload frequency 10 minutes every time
Wired Transmission Method and Communication Protocol	RS485 (MODBUS RTU)
Storage Capacity	1 million groups (single channel)

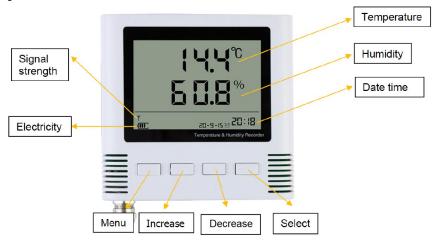
## Instrument Display and Operating Instructions >>>

**Keyboard Function and Usage Mode:** Key symbol, name and function comparison table

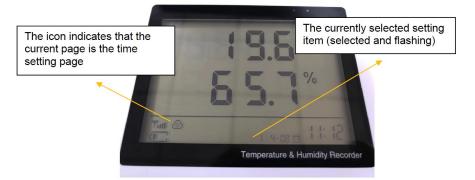
Symbol	Name	Features
=	Menu	Menu selection, low - power wake - up
Δ	Increase	To increase
$\nabla$	Decrease	To decrease, cut back
<b>4</b>	Select	<ul> <li>Switch selection, shift, return, select, back</li> <li>Select the parameter that needs to be modified or exit the modification interface</li> <li>When a parameter is flashing, it is in the selected state</li> <li>Parameters settings are automatically saved after pressing this button to return</li> </ul>

### Product Appearance Display Diagram >>>

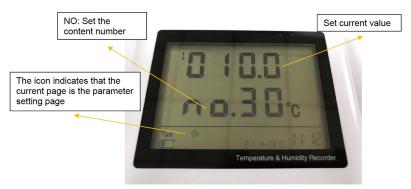
The main interface contains information such as temperature, humidity, battery power, signal strength, date and time etc.



### Time Modification >>>



## Parameter Modification >>>



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Number	Parameter Name
1	Baud rate (actual value/100, such as 96 means the baud rate is 9600)
2	Data bit (8 bits by default)
3	Parity bit (No verification by default)
4	Stop bit (Default 1 bit)
5	Type of data: 0: Plastic surgery 1: Floating point
6	Address: Default 1
7	Temperature unit: 0 = degrees F and 1= degree C
8	Recording interval: Unit S
9	Record interval when alarming: unit S
10	Return difference: Alarm return difference value
11	Last frequency of wireless data: in minutes
12	Restore factory parameter password: Set "1234" to restore factory setting parameters. Set "5678" as the formatted history storage number according to. Other values are not operated
13	Reserved parameters
14	Reserved parameters
15	Channel 1 high temperature report
16	Channel 1 high humidity report
17	Channel 1 temperature underreported value
18	Channel 1 humidity low reported value

# Notes >>>

- After opening the product packaging, please check the appearance of the product is intact. Verify the relevant content of the product manual is consistent with the product
- Strictly obey the wiring diagram of the product and work under the excitation voltage of the product, do not supply over voltage to the product.
- Do not hit / knock the product to avoid damage to the appearance and internal structure
  of the ring.
- When the meter is out of service or not being used, the power should be turned OFF to stop working to prolong the service life of the battery. Replace the battery with the same type and replace it under general conditions and make sure, no gas leakage.
- The product has no self-repair parts for customers, please contact the company in case of any failure on 800.341.5266.