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Temperature & Humidity Recorder

Datasheet

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Temperature & Humidity Recorder

Temperature & Humidity Recorder TH6

TH6
Temp & humidity recorder

Product description:

TH6 temperature and temperature /humidity recorder are easy-to use, versatile devices which can be used for including coolers, freezers, greenhouses, museums, laboratories, shipping containers, warehouses, environmental monitoring and food storage.

The software is a full-featured program that allows you to set up all data logger functions including logging duration, start mode, logging mode, and high and low temperature alarm values. Once data has been logged, the program then allows you to download data from the logger, plot the data and export the data to an PDF or Excel file format for further analysis.

Standard Configuration of Equipment

One TH-6 temperature and humidity recorder;

One computer software installation CD;

One operation manual;

One USB cable;

Function and system design

Functional Description

The interfaces of the recorder are divided into the following types: temperature and humidity display interface, time display interface, data set display interface, maximum value display interface and minimum value display interface.
The recorder will enter into no display status in case of no key operation for 15 seconds.
You can press any key for short time to enter into temperature and humidity display interface when the recorder is in no display status. The display interface of the recorder will switch in sequence if the key is pressed for short time once again.

Temperature and humidity display interface

Symbol "▶"on the display screen lighting steadily indicates that the recorder is in the recording status and symbol "▶" flashing indicates that the recorder is in start delay status or in timing unstart status.
If symbols "▶" and "▮▮" on the display screen do not light up, it indicates that the recorder is in unstart status.
If symbol"▮▮" on the display screen lights steadily, it indicates that the recorder is in stop status.
If symbols "⤒" and "⤓" on the display screen light up, it indicates that the temperature or humidity measured exceed the upper or lower limit.
Time display interface: single temperature recorder has no separate display interface while temperature and humidity recorder has separate interface with M/D on the upper part and H/M on the lower part.

Time display interface	Single temperature recorder has no separate display interface while temperature and humidity recorder has separate interface with M/D on the upper part and H/M on the lower part.	
Data set display interface	Data set display interface: when the sign "Log" lights up, it indicates the current stored data sets and the maximum capacity is 16000 sets.	
Maximum value display interface	When the icon Max lights up, the upper part displays maximum value of temperature measured after starting recording. The lower part displays maximum value of humidity measured after starting recording.	
Minimum value display interface	When the icon Min lights up, the upper part displays minimum value of temperature measured after starting recording. The lower part displays minimum value of humidity measured after starting recording.	

Technical Specifications

Temperature measuring range	-20℃～+60℃; temperature measuring range of optional external probe:-40℃～+85℃;
Temperature measuring accuracy	±0.5℃
Temperature unit	℃, ℉(choosing by upper computer software)
Humidity measuring range	0～99%RH
Humidity measuring accuracy	±3%RH (25℃, 20～90%RH), residual: ±4.5%RH
Resolution ratio	Temperature 0.1℃; humidity 0.1%RH;
Recording capacity	16000 sets
Recording interval	10S～24H
Data interface	Micro-USB interface (ordinary Android phone charging port)
Supply power	Power supply by internal wide temperature CR2450 or USB interface
Battery life	Under normal temperature environment, taking Nafu battery as a standard, recording interval of 15 minutes, used for one year

Instructions for First Installation	1. Please install the software of TH-6 temperature and humidity recorder, connect the recorder with the computer by USB cable and install USB drive according to the hints. 2. After installation, please start the software of TH-6 temperature and humidity recorder, choose Chinese/English interface, choose 57600 for baud rate , 8,N,1 for communication format and find COM port through computer-management-device manager. Configuration information will appear in the bottom Left corner after clicking connecting device . 3. Please click on the icon “system configuration” and the recorder will work normally after parameters are set as needed (all historical data in the recorder will be cleared) 4. Symbol “” in the recorder lights steadily indicates that it enters into recording status. You can click on the icon “extracting data” to upload data and then check it in the historical data. 5. Please exit the temperature and humidity recorder
Obtaining Data in the Recorder	You may obtain the data information stored in the recorder at any time and in the process data stored in the recorder will not be cleared. 1. Please connect the recorder with the computer by USB cable and the symbol “”on the recorder screen will be lighted after connection. 2. After serial port setup is completed, please click “connecting device”. You can check the data sheet, graph and statement in the historical data after extracting data; you may export EXCEL, PDF files etc..

Instructions for Upper Computer Software

1. Serial port setup

WeatherMonitor

After the drive of temperature and humidity recorder is installed, please find the COM port and communication serial port No. corresponding with the recorder through computer- management-device manager and choose the COM port.
Please choose 57600 for baud rate, 8 bits for data bits, none for check bit and 1 bit for stop bit.

2. Connecting device

You must connect device before using upper computer software to configure the recorder.

3. System Configuration

You can set the parameters of temperature and humidity recorder. curve plotting interval is set for time interval of real-time collection. System time is current system time of the computer. User name and title cannot exceed 12 words or 24 characters. Start modes are divided into 4 types including immediate start, delay start, timing start and key pressing start. Stop modes are divided into 2 types including full storage stop and key pressing stop . Time of timing start can be set effectively only when start mode is timing start. Time of delay start can be set effectively only when start mode is delay start. Recording interval is time when the recorder records data with minimum 10 seconds. Temperature alarm and humidity alarm can be divided into 4 types including no alarm, 1 alarm sound, 3 alarm sounds and 10 alarm sounds.

Unit for upper and lower limit of temperature alarm is ℃. If you want to use ℉, please input ℃calculated from ℉ via the calculator on the right side and one decimal will be retained by default. Humidity alarm can be set freely within the scope of 0.0-99.9% and one decimal will be retained by default. Unit of temperature is divided into 2 types including ℃ and ℉. Temperature and humidity can be calibrated with unit of ℃. If you want to use ℉, please input ℃calculated from ℉ via the calculator on the right side within the scope of -10.0℃～+10.0℃ and one decimal will be retained by default.

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