Thermo Hygrometer

Temperature & humidity data logger

TEMPERATURE & HUMIDITY DATA LOGGER · USER MANUAL

Model **HT-80**



■ 0.1 °C / 0.1 %RH resolution · 35,000 data points · 1 s – 24 h interval

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1 Introduction

This instrument adopts a high-precision Sensirion SHT40 digital temperature and humidity sensor, featuring high accuracy, fast response and excellent stability. It is designed for data collection and recording of ambient temperature and humidity.

It is widely used for indoor temperature measurement, warehouse management, logistics and transportation, communication equipment rooms, intelligent buildings, subways, shopping malls, libraries and many other applications.

2 Features

- High accuracy and fast response
- Selectable unit: °C / °F
- Maximum and minimum values

- Resolution: 0.1 %RH, 0.1 °C
- Direct generation of PDF data sheets and curve diagrams
- Data sheets marked in different colours when recorded data exceed the limits configured in the alarm setup
- Data storage for 35,000 records
- Configurable sampling interval, from 1 second up to 24 hours
- Start / stop key
- Light alarm

3 Technical Data

Sensor and measurement

Item	Specification
Sensor	SHT40 (Sensirion, Switzerland)
Measuring range	Temperature −40 °C … 70 °C / −40 °F … 158 °F; Humidity 0 – 100 %RH
Typical accuracy (@25 °C)	Temperature ±0.5 °C; Humidity ±3 %
Resolution	0.1 °C / 0.1 %RH

General

Item	Specification
Power supply	CR2032 lithium battery × 1
Recording capacity	35,000 records
Sampling interval	1 s – 24 h
Low battery threshold	2.4 V

Mounting	Expansion screw holes or 3M adhesive pad

4 Device Description

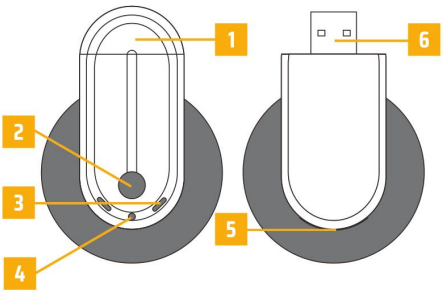


Fig. 1 Device description

① Sensor cover
② Start/stop key
③ Temperature and humidity sensor
④ Recording LED
⑤ Holder
⑥ USB interface

5 How to Use

5.1 Before you start

Plug the device into your computer's USB port and copy the APP file from the device to your computer. If you skip this step, you may lose the setup software.

5.2 Recording step by step

1. Insert a CR2032 battery into the compartment (positive side facing out) and close the cover.
2. Connect the device to your computer via USB.
3. Open the APP setup software on your computer.
4. Set up your recording preferences (temperature, humidity, intervals, etc.).
5. Unplug the device from your computer.
6. Power on: press and hold the START/STOP key for 5 seconds until the green LED lights up. The green LED then flashes once every 3 seconds, three times in total, followed by the startup delay; recording starts once the delay has elapsed.
7. Power off: with the device on, press and hold the same key for 5 seconds until the red LED lights up.

5.3 LED indicators

Operation / state	LED
Power on	Press and hold the key for 5 seconds until the green LED lights up; it then flashes once every 3 seconds, three times in total
Recording start	The startup delay begins; recording starts once the delay has elapsed
Power off	With the device on, press and hold the key for 5 seconds until the red LED lights up

Data readout	After connecting via USB, the green LED lights for 5 seconds and then flashes (PDF being generated); it goes out when finished

5.4 Viewing your data

1. With the device on or off, connect it to your computer via USB: the green LED lights for 5 seconds and then starts flashing.
2. The flashing green LED means the PDF report is being generated; the LED goes out once it is finished.
3. A new drive appears on your computer automatically. Open it to view the PDF report; it can be opened with Acrobat Reader, a web browser or other software.

5.5 Important notes

- After you stop recording, you must reload the settings with the APP before you can start recording again.
- If the battery is low (below 2.4 V), the red LED flashes and recording stops. Recording cannot be restarted until the battery has been replaced.
- Starting a new recording erases all previously saved data. Download and save your data before starting a new recording session.
- If the device will not be used for a long time, remove the battery to prevent damage.
- For measurements in environments below −20 °C / −4 °F, use a battery that can operate normally at −40 °C / −40 °F (standard batteries may not work in extreme cold).

6 Settings (APP)

6.1 Parameters

Plug the USB temperature and humidity data logger into your computer. Once connected, the setup screen appears.

- **Unit** — select your preferred temperature unit: °C or °F.
- **Alarm Setting** — set the high/low temperature and humidity limits. When exceeded, the device will alert you.
- **Interval** — choose how often the device records data, from 1 second up to 24 hours.
- **Startup Delay** — set a delay time before recording starts after you press the key (useful if you need time to place the device in position).
- **CN** — enter up to 8 letters or numbers. This will be used as the PDF file name.

6.2 Applying the settings

1. Click **OPEN** to connect to the device.
2. Click **SET_UP_PARAMETER** to upload your settings.
3. Wait for the "Setup Successful" pop-up, then click **OK**.
4. Click **CLOSE** and unplug the device from your computer.

6.3 Mounting

The device can be fixed in two ways:

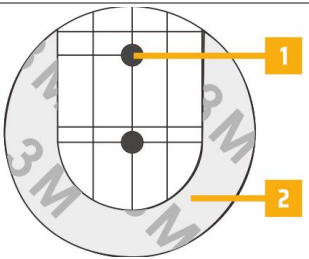


Fig. 2 Mounting (adhesive pad with screw holes)

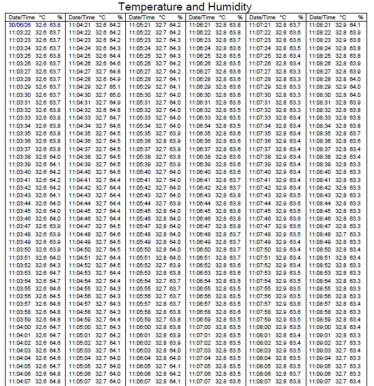
1. Expansion screw holes — for permanent mounting on walls or surfaces using screws.
2. 3M adhesive pad — peel off the protective film and stick it onto a clean, flat and smooth surface.

7 PDF Data Report

When the device is connected to a computer, a PDF report is generated automatically. The first page contains the alarm status, the recording parameters, the summary data and the temperature / humidity curve; the following pages show the detailed log, with the date separators in blue.



Fig. 3 PDF report, first page (parameters and curve)



Temperature and Humidity

Date/Time	°C	%	Date/Time	°C	%	Date/Time	°C	%	Date/Time	°C	%	Date/Time	°C	%
30/06/26	32.6	63.8	11:04:21	32.6	64.2	11:05:21	32.7	64.2	11:06:21	32.8	63.8	11:07:21	32.8	63.7
11:03:22	32.6	63.7	11:04:22	32.6	64.3	11:05:22	32.7	64.2	11:06:22	32.8	63.8	11:07:22	32.8	63.6
11:03:23	32.6	63.7	11:04:23	32.6	64.2	11:05:23	32.7	64.3	11:06:23	32.8	63.7	11:07:23	32.8	63.6
11:03:24	32.6	63.7	11:04:24	32.6	64.3	11:05:24	32.7	64.3	11:06:24	32.8	63.6	11:07:24	32.8	63.5
11:03:25	32.6	63.8	11:04:25	32.6	64.4	11:05:25	32.7	64.3	11:06:25	32.8	63.5	11:07:25	32.8	63.4
11:03:26	32.6	63.7	11:04:26	32.6	64.6	11:05:26	32.7	64.2	11:06:26	32.8	63.5	11:07:26	32.8	63.4
11:03:27	32.6	63.7	11:04:27	32.7	64.8	11:05:27	32.7	64.2	11:06:27	32.8	63.6	11:07:27	32.8	63.3
11:03:28	32.6	63.7	11:04:28	32.6	64.9	11:05:28	32.7	64.1	11:06:28	32.8	63.6	11:07:28	32.8	63.3
11:03:29	32.6	63.7	11:04:29	32.7	65.1	11:05:29	32.7	64.1	11:06:29	32.8	63.6	11:07:29	32.8	63.2
11:03:30	32.6	63.7	11:04:30	32.7	65.0	11:05:30	32.7	64.0	11:06:30	32.8	63.6	11:07:30	32.8	63.3
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11:03:33	32.6	63.8	11:04:33	32.7	64.7	11:05:33	32.7	64.0	11:06:33	32.8	63.5	11:07:33	32.8	63.4
11:03:34	32.6	63.8	11:04:34	32.7	64.6	11:05:34	32.7	64.0	11:06:34	32.8	63.5	11:07:34	32.8	63.4
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11:03:36	32.6	63.8	11:04:36	32.7	64.5	11:05:36	32.8	63.9	11:06:36	32.8	63.6	11:07:36	32.8	63.4
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11:03:39	32.6	64.1	11:04:39	32.7	64.5	11:05:39	32.7	63.9	11:06:39	32.8	63.6	11:07:39	32.8	63.3
11:03:40	32.6	64.2	11:04:40	32.7	64.5	11:05:40	32.7	64.0	11:06:40	32.8	63.6	11:07:40	32.8	63.4
11:03:41	32.6	64.2	11:04:41	32.7	64.4	11:05:41	32.7	64.0	11:06:41	32.8	63.7	11:07:41	32.8	63.4
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11:03:48	32.6	63.9	11:04:48	32.7	64.5	11:05:48	32.8	64.0	11:06:48	32.8	63.7	11:07:48	32.9	63.5
11:03:49	32.6	63.9	11:04:49	32.7	64.5	11:05:49	32.8	64.0	11:06:49	32.8	63.7	11:07:49	32.9	63.4
11:03:50	32.6	63.9	11:04:50	32.7	64.5	11:05:50	32.8	64.0	11:06:50	32.8	63.7	11:07:50	32.9	63.4
11:03:51	32.6	64.0	11:04:51	32.7	64.4	11:05:51	32.8	64.0	11:06:51	32.8	63.7	11:07:51	32.9	63.4
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11:04:07	32.6	64.8	11:05:07	32.7	64.0	11:06:07	32.8	64.1	11:07:07	32.8	63.6	11:08:07	32.8	63.7
11:04:08	32.6	64.7	11:05:08	32.7	63.9	11:06:08	32.7	64.2	11:07:08	32.8	63.6	11:08:08	32.9	63.8
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11:04:13	32.6	64.7	11:05:13	32.7	64.1	11:06:13	32.7	63.8	11:07:13	32.8	63.6	11:08:13	32.8	63.4
11:04:14	32.6	64.7	11:05:14	32.7	64.2	11:06:14	32.7	63.8	11:07:14	32.8	63.6	11:08:14	32.8	63.5
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11:04:37	32.6	64.1	11:05:37	32.7	63.9	11:06:37	32.8	63.6	11:07:37	32.8	63.4	11:08:37	32.8	63.4
11:04:38	32.6	64.0	11:05:38	32.7	63.8	11:06:38	32.8	63.6	11:07:38	32.9	63.4	11:08:38	32.8	63.4
11:04:39	32.6	64.0	11:05:39	32.7	63.9	11:06:39	32.8	63.6	11:07:39	32.9	63.4	11:08:39	32.8	63.3
11:04:40	32.6	64.2	11:05:40	32.7	64.0	11:06:40	32.8	63.6	11:07:40	32.9	63.4	11:08:40	32.8	63.3
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11:04:42	32.6	64.3	11:05:42	32.7	64.0	11:06:42	32.8	63.7	11:07:42	32.9	63.4	11:08:42	32.8	63.3
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11:04:45	32.6	64.0	11:05:45	32.7	64.0	11:06:45	32.8	63.8	11:07:45	32.9	63.6	11:08:45	32.8	63.3
11:04:46	32.6	64.0	11:05:46	32.8	64.0	11:06:46	32.8	63.8	11:07:46	32.9	63.6	11:08:46	32.8	63.3
11:04:47	32.6	63.9	11:05:47	32.8	64.0	11:06:47	32.8	63.8	11:07:47	32.9	63.6	11:08:47	32.8	63.3
11:04:48	32.6	63.9	11:05:48	32.8	64.0	11:06:48	32.8	63.7	11:07:48	32.9	63.5	11:08:48	32.7	63.3
11:04:49	32.6	63.9	11:05:49	32.8	64.0	11:06:49	32.8	63.7	11:07:49	32.9	63.4	11:08:49	32.8	63.3
11:04:50	32.6	63.9	11:05:50	32.7	64.0	11:06:50	32.8	63.7	11:07:50	32.9	63.4	11:08:50	32.8	63.4
11:04:51	32.6	64.0	11:05:51	32.7	64.0	11:06:51	32.8	63.7	11:07:51	32.9	63.4	11:08:51	32.8	63.4
11:04:52	32.6	64.3	11:05:52	32.7	63.9	11:06:52	32.8	63.6	11:07:52	32.9	63.4	11:08:52	32.8	63.3
11:04:53	32.6	64.7	11:05:53	32.8	63.8	11:06:53	32.8	63.6	11:07:53	32.9	63.5	11:08:53	32.8	63.3
11:04:54	32.6	64.7	11:05:54	32.7	63.7	11:06:54	32.8	63.5	11:07:54	32.9	63.5	11:08:54	32.8	63.3
11:04:55	32.6	64.6	11:05:55	32.7	63.7	11:06:55	32.8	63.5	11:07:55	32.9	63.5	11:08:55	32.8	63.3
11:04:56	32.6	64.5	11:05:56	32.7	63.7	11:06:56	32.8	63.5	11:07:56	32.9	63.5	11:08:56	32.8	63.3
11:04:57	32.6	64.6	11:05:57	32.8	63.7	11:06:57	32.8	63.5	11:07:57	32.9	63.6	11:08:57	32.8	63.4
11:04:58	32.6	64.6	11:05:58	32.8	63.8	11:06:58	32.8	63.6	11:07:58	32.9	63.6	11:08:58	32.8	63.3
11:04:59	32.6	64.8	11:05:59	32.7	63.8	11:06:59	32.8	63.5	11:07:59	32.9	63.5	11:08:59	32.8	63.4
11:05:00	32.6	64.7	11:06:00	32.8	63.8	11:07:00	32.8	63.5	11:08:00	32.9	63.5	11:09:00	32.8	63.4
11:05:01	32.6	64.7	11:06:01	32.8	63.9	11:07:01	32.8	63.5	11:08:01	32.8	63.4	11:09:01	32.8	63.3
11:05:02	32.6	64.6	11:06:02	32.8	63.9	11:07:02	32.8	63.5	11:08:02	32.9	63.4	11:09:02	32.7	63.3
11:05:03	32.6	64.5	11:06:03	32.8	64.0	11:07:03	32.8	63.5	11:08:03	32.9	63.5	11:09:03	32.8	63.4
11:05:04	32.6	64.6	11:06:04	32.8	64.0	11:07:04	32.8	63.5	11:08:04	32.8	63.5	11:09:04	32.7	63.3
11:05:05	32.6	64.7	11:06:05	32.7	64.1	11:07:05	32.8	63.5	11:08:05	32.8	63.5	11:09:05	32.7	63.3
11:05:06	32.6	64.8	11:06:06	32.8	64.2	11:07:06	32.8	63.5	11:08:06	32.8	63.7	11:09:06	32.7	63.3
11:05:07	32.6	64.8	11:06:07	32.8	64.1	11:07:07	32.8	63.6	11:08:07	32.8	63.8	11:09:07	32.7	63.4
11:05:08	32.6	64.7	11:06:08	32.7	64.2	11:07:08	32.8	63.6	11:08:08	32.9	63.8	11:09:08	32.7	63.4
11:05:09	32.6	64.6	11:06:09	32.7	64.0	11:07:09	32.8	63.6	11:08:09	32.8	63.8	11:09:09	32.7	63.4
11:05:10	32.6	64.6	11:06:10	32.7	63.9	11:07:10	32.8	63.6	11:08:10	32.8	63.9	11:09:10	32.7	63.4
11:05:11	32.6	64.5	11:06:11	32.7	63.8	11:07:11	32.8	63.6	11:08:11	32.9	63.9	11:09:11	32.7	63.4
11:05:12	32.6	64.6	11:06:12	32.7	63.7	11:07:12	32.8	63.6	11:08:12	32.8	63.9	11:09:12	32.7	63.4
11:05:13	32.6	64.7	11:06:13	32.7	63.8	11:07:13	32.8	63.6	11:08:13	32.8	63.8	11:09:13	32.7	63.4
11:05:14	32.6	64.7	11:06:14	32.7	63.8	11:07:14	32.8	63.6	11:08:14	32.8	63.9	11:09:14	32.7	63.5
11:05:15	32.6	64.6	11:06:15	32.7	63.9	11:07:15	32.8	63.7	11:08:15	32.8	63.9	11:09:15	32.7	63.5
11:05:16	32.6	64.5	11:06:16	32.7	63.9	11:07:16	32.8	63.7	11:08:16	32.9	64.0	11:09:16	32.7	63.5
11:05:17	32.6	64.4	11:06:17	32.7	64.0	11:07:17	32.8	63.8	11:08:17	32.8	64.0	11:09:17	32.7	63.5
11:05:18	32.6	64.3	11:06:18	32.8	63.9	11:07:18	32.8	63.8	11:08:18	32.9	64.2	11:09:18	32.7	63.5
11:05:19	32.6	64.2	11:06:19	32.8	63.9	11:07:19	32.8	63.8	11:08:19	32.9	64.3	11:09:19	32.7	63.5
11:05:20	32.6	64.2	11:06:20	32.8	63.9	11:07:20	32.8	63.8	11:08:20	32.8	64.2	11:09:20	32.7	63.5

Fig. 4 Example of the detailed log

8 Disposal

- For the disposal of batteries in the EU, directive (EU) 2023/1542 of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste; they must be taken to designated collection points.
- In accordance with directive 2012/19/EU (WEEE), waste electrical and electronic equipment must be collected separately and must not be disposed of with household waste. Return the device to designated collection points for recycling.
- For countries outside the EU, batteries and devices should be disposed of in accordance with local waste regulations.

Notes

For calibration dates, test results and service history. Version V1.0