HUATO S100

HUATO S100 Temperature and Humidity Data Logger User Manual

Model: S100

1. INTRODUCTION

The HUATO S100 is a portable or wall-mounted temperature and humidity data logger designed for high-accuracy environmental monitoring. It features an LCD display, low energy consumption, and utilizes high-quality Swiss-made sensors for reliable performance. This device is suitable for various applications including cold-chain transportation, HVAC systems, laboratories, and industrial settings. It can store up to 86,000 recording points, ensuring comprehensive data collection.

Figure 1: Front view of the HUATO S100 data logger, showing the LCD screen displaying humidity percentage and time.

2. KEY FEATURES

- **High Accuracy Sensors:** Equipped with Swiss-made sensors for precise temperature and humidity measurements.

- **Large Storage Capacity:** Total 86,000 recording points (43,000 for each channel) for extensive data logging.

- **LCD Display:** Clear 36mm x 16mm (1.41" x 0.62" inch) LCD screen for real-time data viewing.

- **USB Interface:** Easy connection to a PC for data transfer and configuration.

- **User-Friendly Software:** Free PC software for data analysis, export, and device setup.

- **Versatile Mounting:** Designed for both portable use and wall mounting.

- **Low Power Consumption:** Efficient operation with 2 x 1.5V batteries.

3. PACKAGE CONTENTS

Upon unpacking your HUATO S100 data logger, please verify that all the following items are included:

- HUATO S100 Temperature and Humidity Data Logger

- USB Cable

- 2 x 1.5V Batteries (AA size)

- CD with PC Software and User Manual

Figure 2: Overview of the HUATO S100 package contents.

4. SETUP

4.1. Battery Installation

1. Locate the battery compartment on the back of the data logger.

2. Open the battery compartment cover.

3. Insert two 1.5V AA batteries, ensuring correct polarity (+/-).

4. Close the battery compartment cover securely.

Figure 3: Back view of the data logger, indicating the battery compartment and product label.

4.2. Software Installation

1. Insert the provided CD into your computer's CD-ROM drive.

2. Follow the on-screen instructions to install the HUATO data logger software.

3. If your computer does not have a CD-ROM drive, please visit the official HUATO website to download the latest software version.

4.3. Connecting to PC

1. Connect one end of the USB cable to the data logger's USB port.

2. Connect the other end of the USB cable to an available USB port on your computer.

3. The computer should automatically detect the device. If prompted, install any necessary drivers (usually included with the software).

5. OPERATING INSTRUCTIONS

5.1. Device Overview

The front panel of the S100 features an LCD display and two control buttons:

- **MAX/MIN Button:** Press to cycle through maximum, minimum, and current readings for temperature and humidity.
- **LOG/STD Button:** Used to start/stop logging and for standard display modes.

Figure 4: Front view of the data logger, showing the LCD screen displaying temperature in Celsius.

5.2. Starting Data Logging

Before starting, ensure the device is configured with the desired logging interval and alarm settings via the PC software.

1. With the device powered on, press and hold the**LOG/STD** button for approximately 3 seconds until the 'LOG' indicator appears on the LCD, confirming logging has started.
2. The device will now record temperature and humidity data at the preset interval.

5.3. Stopping Data Logging

1. To stop logging, press and hold the**LOG/STD** button again for approximately 3 seconds until the 'LOG' indicator disappears.
2. Data logging will cease, and the recorded data can now be downloaded.

5.4. Viewing Max/Min Readings

1. Press the **MAX/MIN** button briefly to display the maximum recorded temperature.
2. Press the **MAX/MIN** button again to display the minimum recorded temperature.
3. Continue pressing to cycle through maximum humidity, minimum humidity, and return to current readings.

5.5. Data Transfer and Analysis

1. Connect the data logger to your PC using the USB cable.

2. Launch the HUATO data logger software.

3. Within the software, select the option to download data from the device.

4. The software will retrieve the logged data, which can then be viewed, graphed, analyzed, and exported in various formats (e.g., Excel, PDF).

6. MAINTENANCE

6.1. Battery Replacement

When the battery indicator on the LCD shows low power, replace the batteries promptly to ensure continuous operation and data integrity. Follow the battery installation steps outlined in Section 4.1.

6.2. Cleaning

Clean the exterior of the data logger with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water. Ensure the sensor vents are clear of dust and debris.

6.3. Storage

When not in use for extended periods, remove the batteries and store the data logger in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

- **Device not turning on:** Check battery installation and ensure batteries are fresh.
- **No data logging:** Verify that logging was initiated by pressing the LOG/STD button. Check software settings for logging interval.
- **Device not recognized by PC:** Ensure USB cable is securely connected. Reinstall software drivers if necessary. Try a different USB port.
- **Inaccurate readings:** Ensure the sensor vents are not obstructed. Allow the device to stabilize in the environment for a few minutes before taking critical readings.

8. SPECIFICATIONS

Feature	Specification
Model Number	S100
Interface	USB
Temperature Resolution	0.1℃
Humidity Resolution	0.1%RH
LCD Size	36mm x 16mm (1.41" x 0.62" inch)
Dimensions	92mm x 57mm x 20mm (3.62" x 2.244" x 0.78" inch)
Product Dimensions	2.44 x 2.44 x 3.62 inches; 6.4 ounces

Feature	Specification
Batteries	1 AA batteries required (included)
Manufacturer	HUATO ELECTRIC CO., LTD

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or visit the official HUATO website. Specific warranty terms may vary by region and retailer.

Related Documents - S100

	HUATO S700WIFI Series Wireless Data Logger: IoT Environmental Monitoring Discover the HUATO S700WIFI Series Wireless Data Logger for advanced IoT-based temperature, humidity, and environmental monitoring. Features real-time data acquisition, remote access, and customizable alarms for industrial and storage applications.
	Huato Temperature & Humidity Data Loggers: S300, S500, S520, S580 Series Comprehensive overview of Huato's reliable Temperature & Humidity Data Loggers, featuring high precision, large data capacity, and advanced sensors. Details specifications, models, and applications for industrial, laboratory, and environmental monitoring.
	HUATO A2000 Series Alarming Thermo-Hygrometer User Guide User guide for the HUATO A2000 Series alarming thermo-hygrometer, detailing features, applications, specifications, and operation for temperature and humidity monitoring.
	HUATO A2000 Series Alarming Thermo-Hygrometer User's Guide User's guide for the HUATO A2000 Series alarming thermo-hygrometer, detailing features, applications, model specifications, operation, and troubleshooting for temperature and humidity monitoring.

	S100 Smart Health Watch User Manual User manual for the S100 Smart Health Watch, covering appearance, charging, app pairing, main interface selection, operation methods, product parameters, main functions, app languages, and precautions. Features include TFT display, rotate key, Bluetooth calling, heart rate monitoring, and multiple sport modes.
	HUATO S1500 Paperless Recorder User's Guide This user's guide provides operational instructions for the HUATO S1500 paperless recorder, a portable multi-channel thermocouple data logger with a graphical touch screen. It covers product introductions, features, models, applications, buttons and ports, operational steps, technical specifications, attentions, interface and function descriptions, daily maintenance, and web settings.

Documents - HUATO – S100

[pdf] User Manual Specifications Guide

HUATO S100 Manual TH Thiết bị đo và ghi dữ liệu nhiệt độ ẩm 20~ 70°C IMALL imall vn 2023 06 |||
User s Guide Talk to our sales and shop online at www.huato.cn E-mail: sales huato.com **S100** Series Single Channel Temperature and Humidity Data Logger, Handheld HUATO Headquarters: www.huato.cn sales huato.com HUATO ELECTRIC CO., LTD. Toll-Free: 0755-29977605 Customer Service: 0755-29977605 Engin...
lang:en score:39 filesize: 2.56 M page_count: 16 document date: 2019-07-27

[pdf] User Manual Specifications Guide

  HE70X HE80X   OMEGA ENGINEERING HE804 User Manual Wsimg HE70X 80X Handheld thermocouple thermometer data logger HE81X temperature humidity E mail sales@huato B193H MxXPS images na ssl amazon I s Guide ver 1622779678551 img1 wsimg blobby go 4ca89c1a 1aa1 44dd 8c48 8a9e038dfbac
User s Guide Talk to our sales and shop online at www.huato.cn E-mail: sales huato.com HE70X/80X Han ... ger. 9. Unplug the logger from the computer, and then the logger is in Standby mode. 6 37 4 8 H**S100**CH642 5 **S100**-TH 1. The windows operating system cannot handle USB devices being unplugged and...
lang:en score:34 filesize: 3.72 M page_count: 18 document date: 2019-09-25

20190809174259143S100 ¦°Uêř∕H User Download Data Logger ■■■■■■■■■■■■■■■■ ■■■■■■■■ ■■■■■■■■■■■■■■■■■■ HUATO S100 TH www cube co th product s100 attachment id 8453 file q98dzlkrfptba |||

S100 temperature and humidity data logger, developed by huato, is featured with LCD display, elegant appearance, low energy consumption, and excellent consistency. All the sensors are manufactured in Switzerland which assures quality and stability. Features: Compact and portable design. Flexible re...

lang:en score:31 filesize: 845.51 K page_count: 2 document date: 2022-06-15

Twilight Huato HT-S580EX Thermohygrometer Operation Manual

This document provides a comprehensive operation manual for the Twilight Huato HT-S580EX thermohygrometer, covering quick start, installation, setup, data download, and file management.

lang:en score:26 filesize: 477.09 K page_count: 15 document date: 2020-08-24