

Elitech RC-51

Elitech RC-51 Digital Temperature Data Logger User Manual

Model: RC-51 | Brand: Elitech

INTRODUCTION

The Elitech RC-51 Digital Temperature Data Logger is a reusable USB device designed for precise temperature monitoring. It records up to 32,000 temperature points and automatically generates PDF reports, making it ideal for various applications including cold chain management, vaccine storage, and industrial processes.

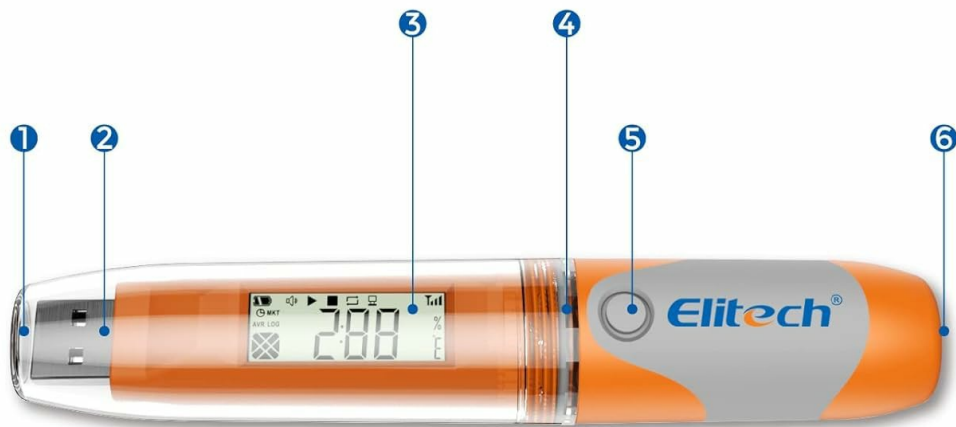
KEY FEATURES

- **Reusable Temperature Data Logger:** Wide temperature measuring range -22°F~158°F(-30°C ~+70°C), records up to 32,000 temperature points.
- **Plug and Play:** USB port, generates PDF report automatically after connecting to PC, no software needed for report generation.
- **LCD Visual Display:** Press the button to switch interface of key information: current temperature value, Max or Min value, Current Date, Logging points. Fahrenheit /Celsius switchable.
- **Multiple Start Option & Alarm Settings:** Start options include pressing the button on the data logger, pre-set time start, or start delay via Elitechlog software. Supports up to 5 alarm settings.
- **IP67 Waterproof Design:** Ensures durability and reliability in various environments.

PRODUCT OVERVIEW



Figure 1: Elitech RC-51 Digital Temperature Data Logger. This image shows the compact, pen-style design of the data logger with its clear cap and LCD screen.



1 Transparent cap

2 USB port

3 LCD screen

4 Seal ring

5 Button & Bi-color indicator
(red and green)

6 Temperature Sensor

Figure 2: Key components of the Elitech RC-51 Data Logger. Labeled parts include the transparent cap, USB port, LCD screen, seal ring, button & bi-color indicator, and temperature sensor.

SETUP

The RC-51 data logger is designed for ease of use. Before initial use, it is recommended to configure the device parameters using the Elitechlog software, which can be downloaded from the Elitech website. Parameters such as logging interval, start options, and alarm settings can be customized.

1. **Software Installation:** Download and install the Elitechlog software on your computer (Windows or macOS compatible).
2. **Connect Device:** Remove the transparent cap to reveal the USB port. Plug the data logger into an available USB port on your computer.
3. **Configure Settings:** Open the Elitechlog software. The device should be recognized automatically. Use the software interface to set desired logging parameters, including start mode (button press, timed, or delay), logging interval, and temperature alarm thresholds.
4. **Disconnect Safely:** After configuration, safely eject the device from your computer.

Generate PDF Without Software

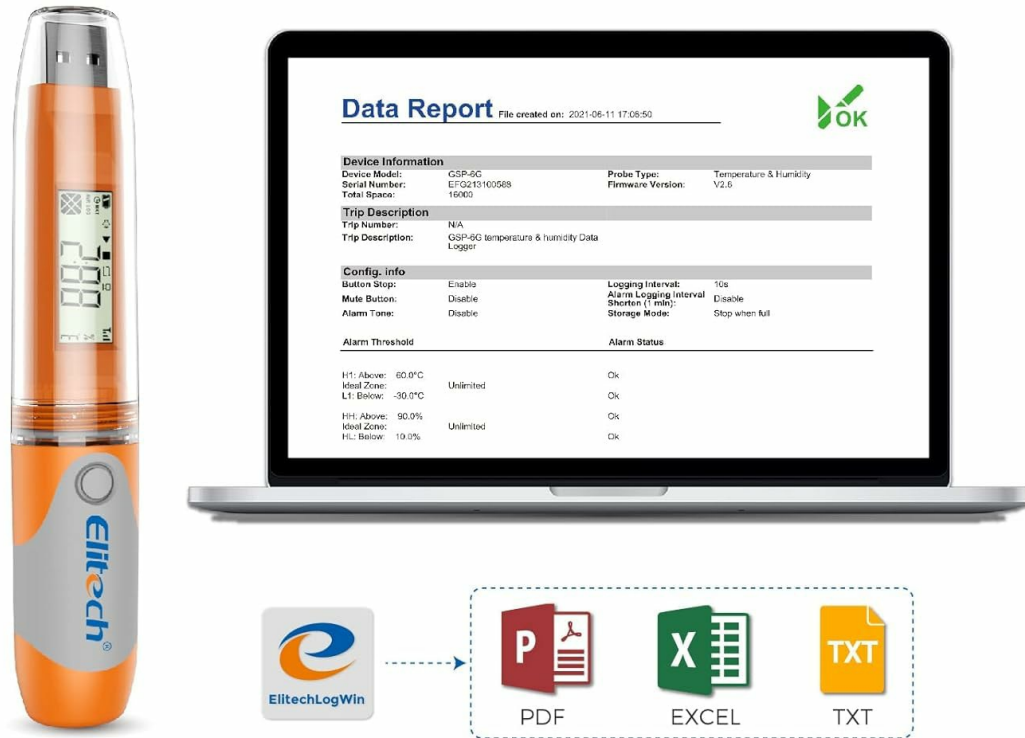


Figure 3: The RC-51 data logger connected to a laptop, illustrating its ability to generate PDF reports without additional software. The image shows the data logger plugged into a USB port, with a sample PDF report displayed on the laptop screen.

OPERATING INSTRUCTIONS

Starting a Recording Session

- **Button Start:** If configured for button start, press and hold the button on the data logger until the "REC" icon appears on the LCD, indicating recording has begun.
- **Timed Start:** If configured for timed start, the device will automatically begin recording at the pre-set time.
- **Delay Start:** If configured for delay start, the device will begin recording after a specified delay period once activated.

Monitoring Data on LCD

A single click on the button allows browsing through various LCD display pages:

- Current temperature value
- Maximum (Max) temperature value

- Minimum (Min) temperature value
- Current Date
- Logging points (number of recorded data points)
- Fahrenheit / Celsius switchable display



Figure 4: Visual guide to LCD indications on the Elitech RC-51. This image displays various screens accessible by pressing the button, showing current temperature, record points, record interval, MKT value, average, max, and min temperature values.

Stopping a Recording Session

Recording will stop automatically when the memory is full, or when the device is connected to a computer and a report is generated. If configured, recording can also be stopped by pressing and holding the button on the device.

Generating Reports

To generate a report, simply plug the data logger into a USB port on your computer. The device will automatically create an encrypted PDF report. The Elitechlog software can also be used to export data in PDF, Excel, or TXT formats for more detailed analysis and comparison.

Large Capacity Data Storage

32000 points storage capacity

Continuous recording for 2 years at a 1 hour cycle



Figure 5: Illustration of the RC-51's large data storage capacity, capable of storing up to 32,000 temperature points. This allows for continuous recording over extended periods, such as two years at a one-hour cycle.



Figure 6: Overview of features offered by the Elitechlog software. This includes data query & storage, chart comparison for multiple devices, settable alarm range, FDA 21 CFR Part 11 compliance, email backup, and data export options (PDF & Excel).

Video 1: Elitech RC-51 Pen-Style Design with Waterproof IP67. This video demonstrates the compact, pen-style design and the IP67 waterproof rating of the RC-51 data logger, highlighting its suitability for various environments.

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery:** The device uses a Lithium Metal battery (included). Refer to the Elitechlog software or device specifications for battery life and replacement information.
- **Storage:** Store the data logger in a cool, dry place when not in use. Ensure the transparent cap is securely in place to protect the USB port.
- **Calibration:** For critical applications, regular calibration is recommended. Elitech provides a two-year validation certificate.

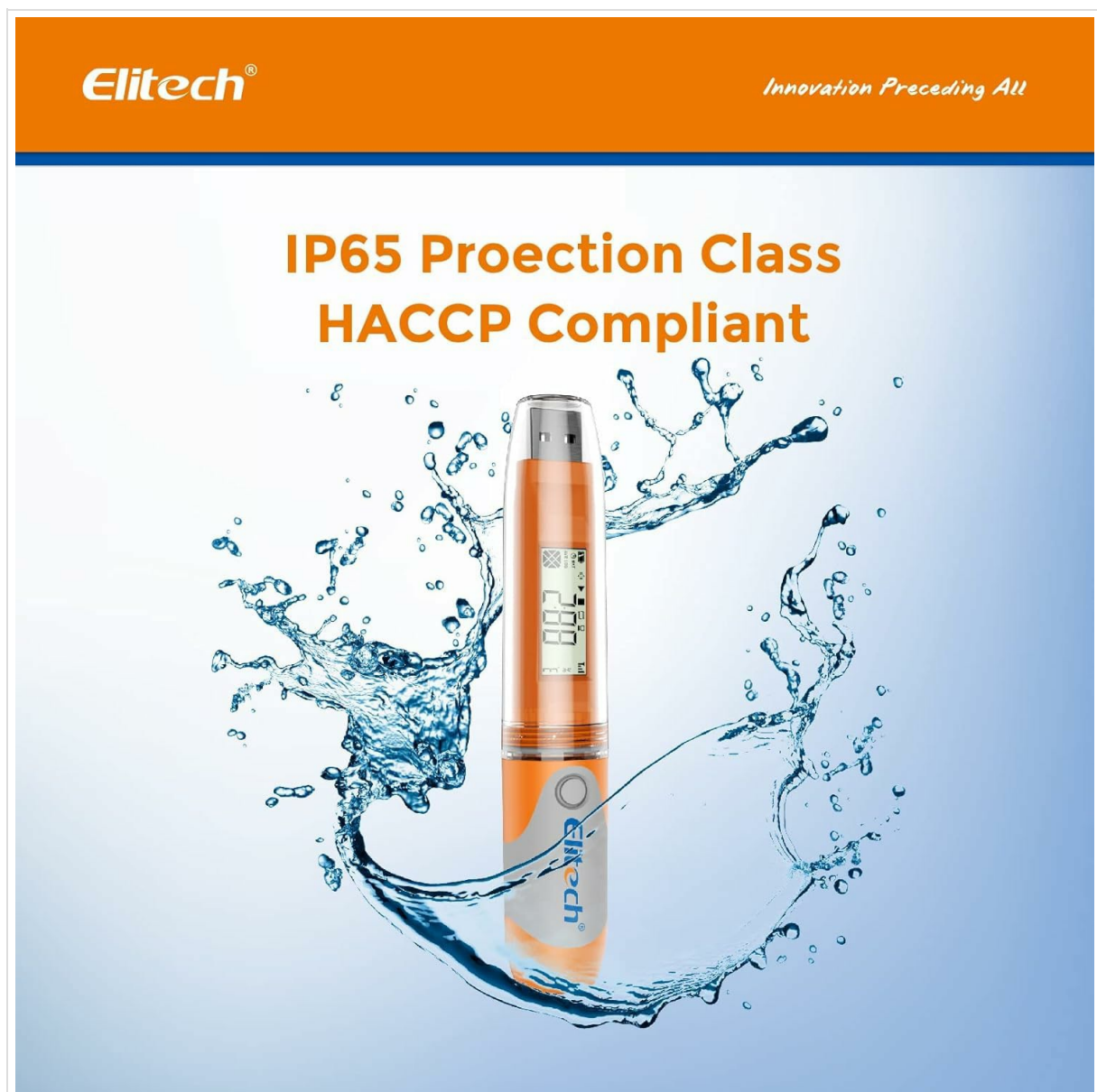


Figure 7: The RC-51 data logger demonstrating its IP65 protection class, indicating resistance to water splashes and dust. This feature ensures reliability in challenging environments.



Figure 8: Image showing the Elitech RC-51 data logger alongside its two-year validation certificate and user manual. This certificate confirms the device's calibration and performance standards.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not starting recording.	Incorrect start mode configuration; battery low; device not activated.	Check settings in Elitechlog software. Ensure battery is charged. Press and hold the button to activate if configured for button start.
No PDF report generated.	USB connection issue; device memory full; corrupted data.	Ensure secure USB connection. Try a different USB port. Check device memory status. Reformat device if data is not critical (this will erase all data).
Inaccurate temperature readings.	Sensor obstruction; device placed in extreme conditions; calibration needed.	Ensure sensor is clear. Operate within specified temperature range. Consider professional calibration if accuracy is critical.
LCD display not working.	Low battery; device malfunction.	Charge or replace battery. If problem persists, contact customer support.

SPECIFICATIONS

Attribute	Value
Model Number	RC-51
Temperature Measuring Range	-22°F~158°F (-30°C ~+70°C)
Temperature Accuracy	±0.5°C
Resolution	0.1°C
Data Storage Capacity	32,000 points
Interface	USB

Attribute	Value
Battery	1 Lithium Metal battery (included)
Product Dimensions	0.94 x 0.94 x 5.16 inches
Weight	2.82 ounces
Protection Class	IP67
Manufacturer	Elitech



Innovation Preceding All

Specification

-40 ~ 85°C, ±0.5°C, 0.1°C; -40 ~ 185°F
32000 points Max



Figure 9: Detailed specifications and dimensions of the Elitech RC-51 data logger, including temperature range, accuracy, and physical measurements.

WARRANTY AND SUPPORT

The Elitech RC-51 Digital Temperature Data Logger comes with a two-year validation certificate, ensuring its quality and performance. For any technical assistance, Elitech offers 24/7 US Technician Support via

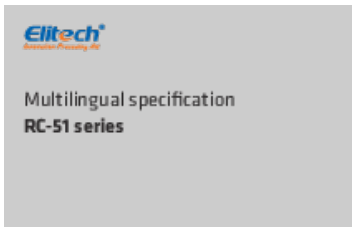
Email and Phone. Please refer to the official Elitech website or the included documentation for specific warranty terms and contact information.

For calibration certificates or further inquiries, please email or message Elitech customer service.

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For more information, visit the [Elitech Store](#).

Related Documents - RC-51

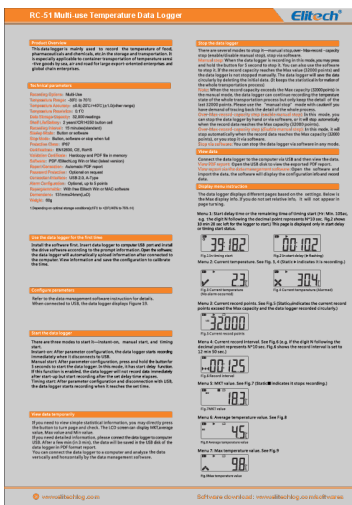
	<p>Elitech RC-51 Data Logger User Manual</p> <p>User manual for the Elitech RC-51 temperature data logger, detailing its features, specifications, setup, operation, data logging, and battery replacement procedures.</p>
	<p>Elitech RC-51 Multi-use Temperature Data Logger User Manual</p> <p>Comprehensive user manual for the Elitech RC-51 Multi-use Temperature Data Logger, covering product overview, technical specifications, operation instructions, display menus, report generation, and battery replacement.</p>
	<p>Elitech RC-51 Multi-use Temperature Data Logger User Guide and Specifications</p> <p>Comprehensive guide to the Elitech RC-51 multi-use temperature data logger, covering product overview, technical parameters, usage instructions, data viewing, battery replacement, and PDF report content. Features include a wide temperature range, high accuracy, and large storage capacity for logistics and cold chain monitoring.</p>
	<p>Elitech RC-5+ Temperature Data Logger: User Manual and Specifications</p> <p>This manual provides detailed instructions for using the Elitech RC-5+ USB temperature data logger, covering setup, operation, data download, and analysis with Elitech software. Features and technical specifications are also included.</p>
	<p>Elitech RC-5 Quick Start Guide: Temperature Data Logger</p> <p>Quick start guide for the Elitech RC-5 temperature data logger, covering battery installation, software setup, logger operation, technical specifications, and troubleshooting.</p>
	<p>Elitech IoT & Cold Chain Data Loggers Comprehensive Product Catalog</p> <p>Explore Elitech's extensive range of IoT and cold chain data loggers, including temperature, humidity, and multi-use devices. Discover features, technical specifications, and software solutions for reliable monitoring and compliance.</p>



[Elitech RC-51 Series Temperature Data Logger: Specifications and User Guide](#)

Detailed specifications, operation instructions, and precautions for the Elitech RC-51 series temperature data logger. Covers configuration, data export, battery replacement, and warranty information.

lang:en **score:40** filesize: 9.91 M page_count: 13 document date: 2024-10-21

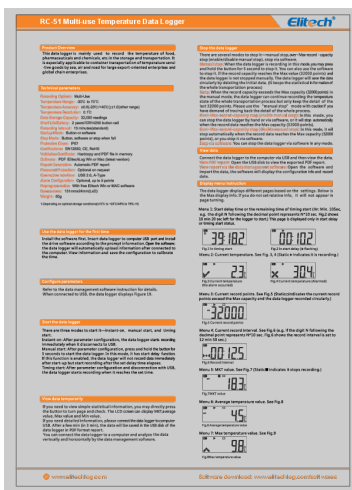


[\[pdf\] User Manual Instructions](#)

rc 51 instructions RC Multi use Temperature Data Elitech Product Ov Manual start After parameter configuration press and hold the button for 5 seconds to data logger 1 piece of temperature user manual elitechlog manuals Logger Software softwares Page 2 Fig 25 21Press snap Technology Inc 1551 McCarthy Blvd Suite 112 Milpitas 80

RC-51 Multi-use Temperature Data Logger www.elitechlog.com Software download: www.elitechlog.com/softwares **RC-51** Multi-use Temperature Data Logger Fig.21Press the snap Fig.25. www.elitechlog.com Elitech Technology, Inc. www.elitechlog.com 1551 McCarthy Blvd, Suite 112 Milpitas, CA 95035 USA So...

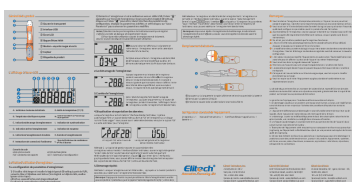
lang:en **score:39** filesize: 3.75 M page_count: 2 document date: 2018-05-30



[Elitech RC-51 Multi-use Temperature Data Logger User Guide and Specifications](#)

Comprehensive guide to the Elitech RC-51 multi-use temperature data logger, covering product overview, technical parameters, usage instructions, data viewing, battery replacement, and PDF report content. Features include a wide temperature range, high accuracy, and large storage capacity for logistics and cold chain monitoring.

lang:en **score:34** filesize: 3.48 M page_count: 2 document date: 2018-03-27



[Manuel d'utilisation de l'enregistreur de données de température Elitech RC-51](#)

Ce manuel fournit des instructions complètes pour l'enregistreur de données de température Elitech RC-51. Apprenez à configurer les paramètres, démarrer et arrêter l'enregistrement, visualiser et exporter les données, et remplacer la batterie. Essentiel pour une surveillance précise de la température et la gestion des données.

lang:fr **score:29** filesize: 5.24 M page_count: 6 document date: 2022-12-23

RC-51 PEN-TYPE USB TEMPERATURE DATA LOGGER

A Trusted Partner
in Monitoring
Cold Chain

ACCURATE, COMPACT AND USER-FRIENDLY TEMPERATURE MONITORING

RC-51 temperature data logger is suitable for use in any field where temperatures of goods need to be monitored throughout the transport and storage process. RC-51H is designed with a USB interface, which allows you to plug and play with your PC. Reports can be generated automatically, without installing data management software, and the data can be read even if the battery runs out.

KEY FEATURES

- Multi-use Data Logger: adopts a temperature sensor with high accuracy and records up to 32,000 temperature points.
- Plug and Play: no cable or module required. The USB connector enables quick connection to PC to download data.
- Wide Temperature Range: Temperature measuring range: -30°C ~ 70°C.
- Powerful LCD visualization: You can all the information for recording, including temperature, storage time, battery level, etc.
- 1-year Battery Life: Powered by 2 AAAA alkaline batteries that come along for free and the battery could last up to 2 years.



Category	Feature Specification
Temperature Measurement	Range: -30°C ~ 70°C Accuracy: (±0.5°C, -20°C ~ 40°C), (±1°C, others) Resolution: 0.1°C
Sensor	Type: Built-in Temperature and Humidity Sensor
Data Logging	Log Interval: 20 sec ~ 120 sec, customizable Data Storage Capacity: 32,000 points (3AA)
Power	Battery: CR2450 (last of lifetime year, it can be replaced by 2 x AA alkaline) Battery Life: At least 12 months at 25°C with 15 min record interval
Physical	Dimensions: 235mm x 20mm Data Interface: USB
Environmental	Protection Level: IP68

Page 1 of 1

[pdf] User Manual Specifications Datasheet

RC 51 Datasheet User Manual Elitech Pen Type USB Temperature Data Logger drive google file d 18

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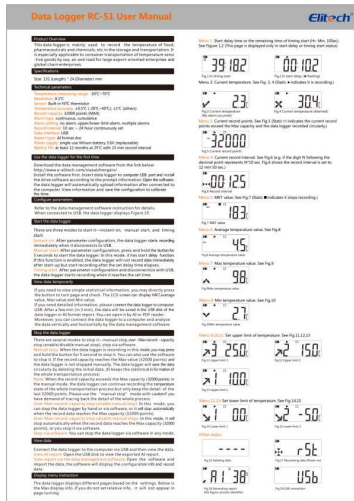
RC-51 PEN-TYPE USB TEMPERATURE DATA LOGGER A Trusted Partner in

Monitoring Cold Chain ACCURATE, COMPACT AND USER-FRIENDLY

TEMPERATURE MONITORING RC-51 temperature data logger is suitable for use in

any field where temperatures of goods need to be monitored throughout the transport and storage proc...

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[pdf] User Manual

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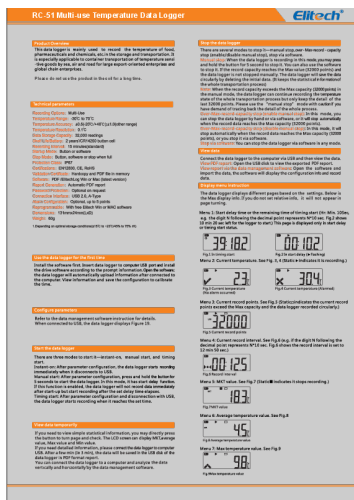
Elitech GSP-6/GSP-6G/RC-51/RC-51H Temperature and Humidity Data Logger

Certificate of Compliance

Official Certificate of Compliance for Elitech GSP-6, GSP-6G, RC-51, and RC-51H

Temperature and Humidity Data Loggers, issued by Ente Certificazione Macchine Srl, verifying compliance with EN 12830:2018.

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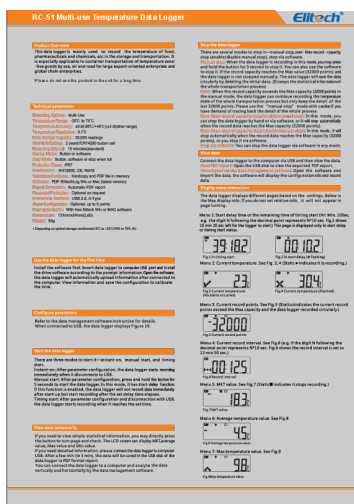
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Technology Inc 1551 McCarthy Blvd Suite 112 Milpitas CA 95035 USA Tel 1 408 844 4070 Sales

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RC-51 Multi-use Temperature Data Logger Please do not use the product in the soil for a long time. **RC-51** Multi-use Temperature Data Logger Fig.21 Press the snap Fig.25. Elitech Technology, Inc. 1551 McCarthy Blvd, Suite 112, Milpitas, CA 95035 USA Tel: 1 408-844-4070 Sales: sales.elitechus.com Su...

lang:en score:21 filesize: 4.81 M page_count: 3 document date: 2019-04-25



[Elitech RC-51 Multi-use Temperature Data Logger: Specifications & User Guide](#)

Comprehensive technical specifications, usage instructions, and overview for the Elitech RC-51 multi-use temperature data logger, designed for monitoring food, pharmaceuticals, and chemicals in storage and transportation.

lang:en score:21 filesize: 4.85 M page_count: 3 document date: 2019-04-25



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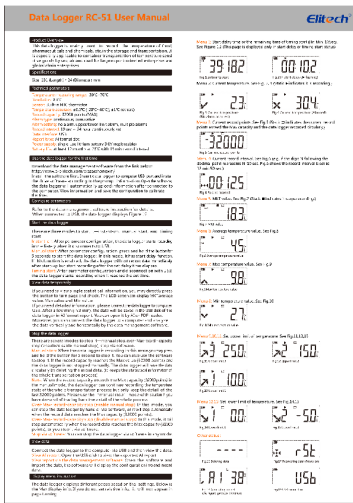
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Experience Precision TEMPERATURE HUMIDITY DATA LOGGERS RC-55 RC-4H RC-5 RC-12 **RC-51** TEMPERATURE HUMIDITY DATA LOGGERS Applications We offer wide range of Temperature and Humidity Data Loggers which delivers you precise and accurate data sheets. Elitech has been a leader in providing temp...

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[Elitech RC-51 Data Logger User Manual](#)

User manual for the Elitech RC-51 temperature data logger, detailing its features, specifications, setup, operation, data logging, and battery replacement procedures.

lang:en score:19 filesize: 4.49 M page_count: 2 document date: 2016-12-13

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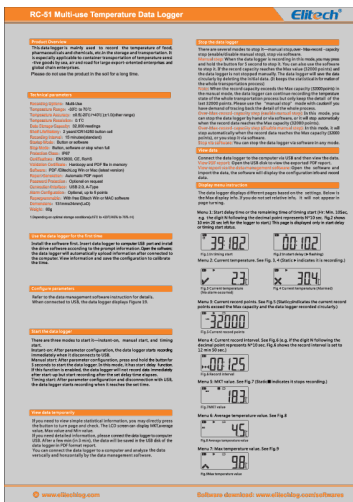
Pictures Product Temperature Range Humidity Range Temperature Accuracy Humidity Accuracy Resolution ... 2,000 MAX Stop when full 10s - 24h CR2032 5min 1M 5mm Diam ;2.5cm L ElitechLog Windows/Mac IP67 **RC-51/RC-51** Black -30C - 70C -22-158 / 0.5 -2040 ; 1.0 Other / 0.1C 32,000 MAX Stop when full Cir...

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[RC-51 Multi-use Temperature Data Logger User Manual | Elitech](#)

Comprehensive user manual for the Elitech RC-51 Multi-use Temperature Data Logger. Learn about product overview, technical specifications, operation, data viewing, and battery replacement.

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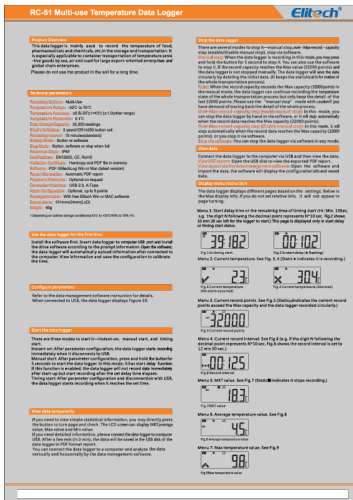
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Reusable Data Logger GSP-6 GSP-6G GSP-8A RC-4 RC-4HC RC-4G Probe Sensor
Type Temp Humi T Gl ... s - 24h 5min CR2032 2 years LCD display Extra sold holder
IP67 3.94*1.81*0.7 - - - - - **RC-51 RC-51H** Internal Temp - Internal Temp Humi - -
3070 -22158 0.5 0.1C - -3070 -22158 0.5 0.1C...

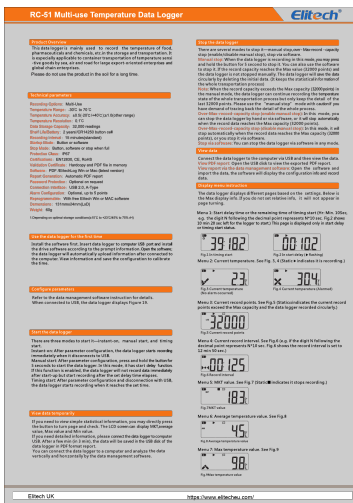
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Elitech RC-51 Multi-use Temperature Data Logger User Manual

Comprehensive user manual for the Elitech RC-51 Multi-use Temperature Data Logger, covering product overview, technical specifications, operation instructions, display menus, report generation, and battery replacement.

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lang:en score:14 filesize: 1.4 M page_count: 2 document date: 2021-12-14



[pdf] Declaration of Conformity Label

CE Certificate Elitech Technology Inc RC 51 RC51H USB Temperature Data Logger Recorder Tester Points Pen Style 32000 Record v 1583684247 cdn shopify s files 1 0015 6958 7264 |||

ISSET S.r.l. Sede Legale e Uffici Via Donatori di sangue, 9 - 46024 Moglia MN Tel. e fax 39 0 376 ... ssary to appoint a Notified Body. 5 TYPE OF PRODUCT:

Temperature and humidity recorder MODEL S : **RC-51, RC-51H** 6 LIST OF DIRECTIVES / REGULATIONS /STANDARDS as declared by the manufacturer itsel...

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ISSET S.r.l. Certificate: Temperature & Humidity Recorder RC-51/RC-51H Compliance

This certificate from ISET S.r.l. confirms that the Temperature and Humidity Recorder models RC-51 and RC-51H, manufactured by Jiangsu Jingchuang Electronics Co., Ltd, comply with the specified directives and standards, including EN 12830:1999. It details applicant information, certificate number, and important notes regarding CE marking and product declaration.

lang:en score:13 filesize: 518.33 K page_count: 1 document date: 2019-04-10