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> Elitech RC-17 Single-Use USB Temperature Data Logger User Manual

## Elitech RC-17

# Elitech RC-17 Single-Use USB Temperature Data Logger User Manual

Model: RC-17

## 1. INTRODUCTION

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The Elitech RC-17 is a single-use USB temperature data logger designed for reliable and accurate temperature monitoring in cold chain applications. It is ideal for tracking temperature conditions of sensitive goods such as food, pharmaceuticals, and vaccines during storage and transportation. This device features a 120-day recording capacity, customizable alarm functions, IP67 waterproof rating, and automatic PDF report generation, simplifying data management and compliance.



Figure 1: Elitech RC-17 Single-Use USB Temperature Data Logger. This image shows the compact, white and orange device with a USB connector, indicating its model number RC-17 and Elitech branding.

## 2. PRODUCT OVERVIEW

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### 2.1 Key Features

- **HACCP Compliant Temperature Monitoring:** Meets strict requirements for food and pharmaceutical industries with a measurement accuracy of  $\pm 0.3^{\circ}\text{C}$  and a temperature range of  $-30^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ .
- **USB Data Export:** Easily extract data via USB. Automatic PDF report generation simplifies documentation for audits.
- **120-Day Continuous Recording:** Records and securely stores temperature data for up to 120 days.
- **IP67 Waterproof:** Protected by a sealed plastic bag, offering protection against moisture, ideal for refrigerated environments.
- **Customizable Alarm:** Choose from 2 alarm types (simple or cumulative) and 3 start modes (immediate, by button, or timed). Features 5 adjustable alarm thresholds (3 high, 2 low) and a default 30-minute start delay. Settings are configurable via ElitechLog software.

## 2.2 Components

- Elitech RC-17 Data Logger
- Instruction Manual

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**Data Analysis**



**LED Alarm**



**Event Mark**



**Temperature Unit**



**Personalization**



**Data Security**

Figure 2: Key Functions of Elitech RC-17. This image displays the RC-17 device alongside icons representing its capabilities: Data Analysis, LED Alarm, Event Mark, Temperature Unit selection, Personalization, and Data Security.

## 3. SPECIFICATIONS

Parameter	Value
Model Number	RC-17
Temperature Range	-30°C to +70°C (-22°F to +158°F)
Temperature Accuracy	±0.5°C/±0.9°F (-20°C~+40°C); ±1°C/±1.8°F (others)

Parameter	Value
Temperature Resolution	0.1°C/°F
Memory Capacity	16,000 data points (MAX)
Log Cycle	Up to 120 days
Log Interval	12 minutes (default)
Start Delay	30 minutes (default)
Power Source	1 Lithium-metal battery (included, non-replaceable)
Connectivity	USB
Waterproof Rating	IP67
Dimensions	10.6 x 6.3 x 1.9 cm
Weight	1 g
Material	Stainless steel or plastic
Compliance	HACCP, CE, FC, FDA, RoHS, EN12830, WEEE



## Specification

**Temperature Range:**  
-30~70°C (-22~158°F)

**Temperature Accuracy:**  
±0.5°C/±0.9°F  
(-20°C~+40°C);  
±1°C/±1.8°F(others)

**Temperature Resolution:**  
0.1°C/°F

**Memory Capacity:**  
16,000 (MAX)

Figure 3: Elitech RC-17 Specifications. This image shows the device in its sealed packaging, detailing its temperature range, accuracy, resolution, and memory capacity.

## 4. SETUP

The Elitech RC-17 comes with preset parameters for immediate use. However, you can customize settings such as start delay, logging interval, start mode, and alarm thresholds using the ElitechLog software. This software is available for download from the Elitech website.

### 4.1 Customizing Parameters (Optional)

1. Download and install the ElitechLog software from the official Elitech website.
2. Connect the RC-17 data logger to your computer's USB port.
3. Open the ElitechLog software. The device will be recognized automatically.
4. Configure desired settings including:
  - **Start Delay:** Time before logging begins after activation.
  - **Logging Interval:** Frequency of temperature readings (e.g., every 12 minutes).

- **Start Mode:** Choose between immediate, button-press, or timed start.
- **Alarm Thresholds:** Set upper and lower temperature limits for alarms.

5. Apply the settings to the device.

**Note:** Once the device has started recording, parameters cannot be changed. Ensure all settings are correct before initiating a logging session.

## CÓMO USAR



**Step 1**  
Mantenga presionado el botón durante 5 segundos para iniciar



**Step 2**  
Monitoree durante el transporte



**Step 3**  
Mantenga presionado durante 5 segundos para detener



**Step 4**  
Conecte USB para obtener el informe

**Nota:** Use el software para cambiar los parámetros predeterminados antes de iniciar el dispositivo, si es necesario.


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Figure 4: Customizable Parameters. This image shows a laptop screen with options to configure start delay, logging interval, start mode, and alarm thresholds for the RC-17.

## Informe PDF Automático

Genera informes PDF automáticamente mediante conexión USB. Descargue el software ElitechLog para formatos adicionales como Excel.



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Figure 5: Preset Parameters. This image illustrates that the device comes with default settings, ready for use with a single click.

## 5. OPERATING INSTRUCTIONS

Follow these steps to operate your Elitech RC-17 data logger:

- Step 1: Start Recording**  
Press and hold the 'Start/Stop' button on the device for approximately 5 seconds until the 'RECORD' LED indicator lights up, confirming that logging has begun.
- Step 2: Monitor During Transport/Storage**  
Place the data logger in the environment where temperature monitoring is required (e.g., cold box, refrigerated truck, cold chain container). The device will continuously record temperature data according to the set interval.
- Step 3: Stop Recording**

Once the monitoring period is complete, press and hold the 'Start/Stop' button for approximately 5 seconds to stop the recording. The 'RECORD' LED will turn off.

#### 4. Step 4: Obtain Report

Connect the RC-17 data logger to a computer's USB port. The device will automatically generate a PDF report containing all recorded temperature data. No special software is required for basic PDF report generation. For additional formats like Excel, use the ElitechLog software.



Figure 6: How to Use the RC-17. This image provides a visual step-by-step guide for starting, monitoring, stopping, and generating reports with the device.



Figure 7: Automatic PDF Report Generation. This image shows the RC-17 connected to a laptop, illustrating the automatic generation of PDF reports and the option to use ElitechLog software for other formats like CSV and Excel.



Figure 8: Application Scenarios. This image displays various uses for the RC-17, including cold boxes, refrigerated trucks, cold chain containers, and distribution centers.

## 6. MAINTENANCE

The Elitech RC-17 is designed as a single-use device, requiring minimal maintenance during its operational lifespan.

- **Single-Use Design:** The device is intended for one-time use. Do not attempt to replace the internal battery or reuse the device after its logging cycle is complete.
- **Waterproof Protection:** The IP67 rating ensures the device is dustproof and protected against temporary immersion in water. Keep the sealed plastic bag intact for optimal moisture protection.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures before use.
- **Disposal:** Dispose of the device responsibly according to local regulations for electronic waste.



# IP67

## Waterproof Grade

**Dustproof and waterproof, ensuring reliable performance in harsh environments.**

Figure 9: IP67 Waterproof Grade. This image shows the RC-17 device submerged in water, highlighting its dustproof and waterproof capabilities for reliable performance in harsh environments.



### IP67 Impermeable

- Rango de temperatura: -30~70°C (-22~158°F)**
- Ciclo de registro: Hasta 120 días**
- Capacidad de memoria: 16000 (MAX)**
- Fuente de alimentación: CR2450 integrada**



Figure 10: IP67 Waterproof Feature. This image visually reinforces the IP67 waterproof rating, showing the device in a water-resistant context with fruits, suggesting its suitability for environments where moisture is present.

## 7. TROUBLESHOOTING

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If you encounter issues with your Elitech RC-17, consider the following common solutions:

- **Device Not Starting:** Ensure you press and hold the 'Start/Stop' button for the full 5 seconds until the 'RECORD' LED illuminates. If the device has been previously used, it may have completed its logging cycle and cannot be restarted.
- **No Data Report After USB Connection:**
  - Verify the device is securely connected to a functional USB port.
  - Ensure the recording was stopped correctly (Step 3 in Operating Instructions).
  - Try connecting to a different USB port or computer.
  - If using ElitechLog software, ensure it is installed correctly and updated.
- **Inaccurate Readings:** Ensure the device is placed in a location that accurately represents the temperature of the goods being monitored and is not directly exposed to external heat/cold sources that could skew readings.
- **Alarm Not Triggering:** Check the alarm settings using the ElitechLog software to ensure thresholds are correctly configured and the alarm function is enabled.

## 8. WARRANTY AND SUPPORT

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For warranty information, technical support, or further assistance, please refer to the official Elitech website or contact Elitech customer service directly. Details can typically be found on the product packaging or the Elitech website's support section.



**CE FC FDA RoHS EN12830 WEEE**

Figure 11: Elitech RC-17 Certifications. This image displays the device alongside various compliance marks including CE, FC, FDA, RoHS, EN12830, and WEEE, indicating adherence to international quality and safety standards.