

Quick Guide

# CSL-Display Unit

CSL-EDU10

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# 1 Specification, Features, and Component Overview

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## 1.1 Specifications

- Operating Temperature Range:  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ .
- Display: 1.8-inch TFT display with a resolution of  $128 \times 160$  pixels.
- Port Type: USB Type-C port; compatible with 1A, 5V-Charger.
- Battery Backup: 5 hours (continuous use).
- Compact Dimensions:  $103 \text{ mm} \times 71 \text{ mm} \times 26 \text{ mm}$ .
- Weight: 200g.

## 1.2 Features

- Real-time display and storage of current data (stores last 10 values).
- Shows both Minimum and Maximum values alongside runtime.
- Option to toggle between Celsius and Fahrenheit temperature units.
- Powers CSL-Series Loggers.
- Equipped with a high-contrast display for excellent visibility even in sunlight.
- Plug-and-play functionality; no setup or programming needed.

## 1.3 Component Overview

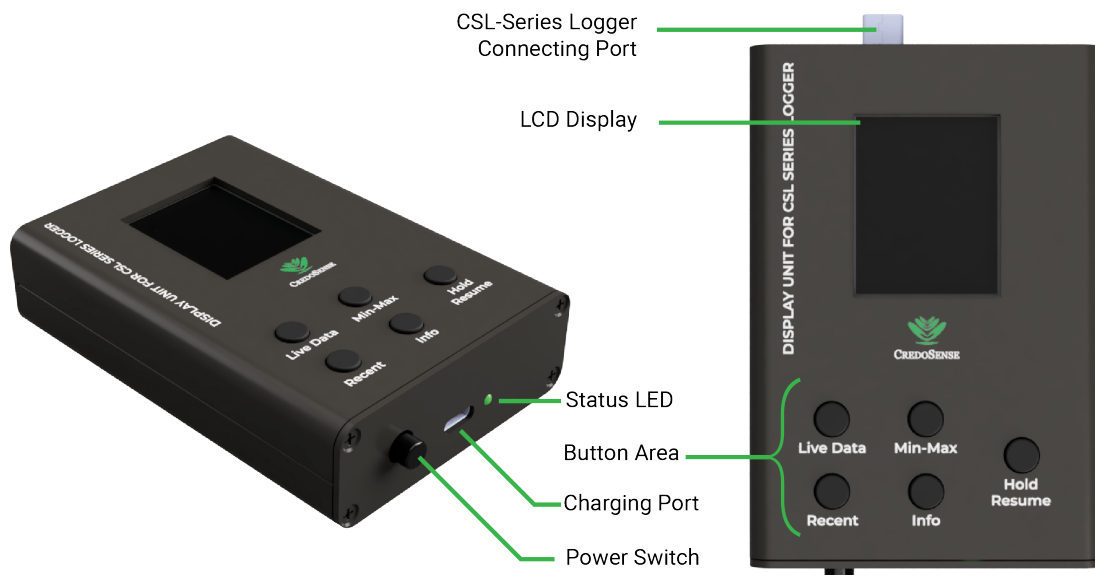


Figure 1: Showing different parts of the device.

## 2 Operating Display Unit

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To start the device, simply press the power button, as indicated in Figure 1. Once pressed, you will see a prompt instructing you to connect a CSL-Series Logger (Figure 2). Proceed to connect a CSL Series Logger to the device; Figure 3 shows how to connect the logger. Upon successful connection, the device will transition to the Live-Data page (Figure 6a) automatically.



Figure 2: Device is powered-up.



Figure 3: Connecting a CSL-Series Logger.

**!** **NOTE:** However, if any errors or warnings occur during the process, the user will be directed to the page shown in Figure 4.

### 3 Warning

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Two types of warning messages can appear when the device is turned on.

- **Timekeeping Error:** This occurs when the display unit attempts to synchronize its clock with the CSL-Series Logger. If the CSL-Series Logger's clock isn't functioning properly, the display unit cannot adjust its own clock accordingly.
- **Low Battery Warning:** This warning is displayed when the battery level of the CSL-Series Logger is low.

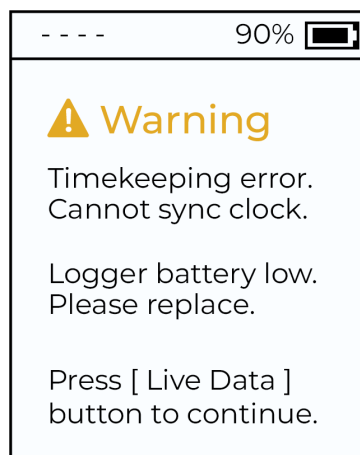


Figure 4: Showing Warning.

**NOTE:** The display unit provides power to the logger when they are connected. Therefore, the presence of the CR2450 battery in the CSL-Series Logger is not required for the display unit to function properly.

If the battery level is low, the device may display an additional warning, as illustrated in Figure 5.

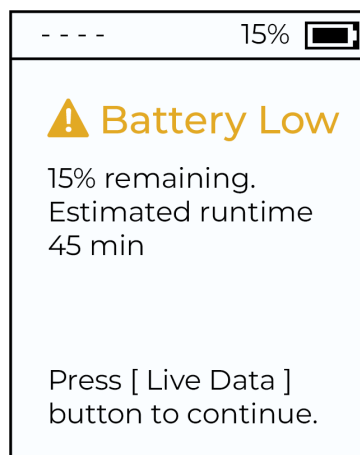


Figure 5: Indicating low battery.

## 4 Viewing the data

There are five buttons on the device (Figure 1) that allow you to access five data pages. Simply click on each button, and the corresponding data page will appear. For a visual reference, Figure 6 displays all five data pages.

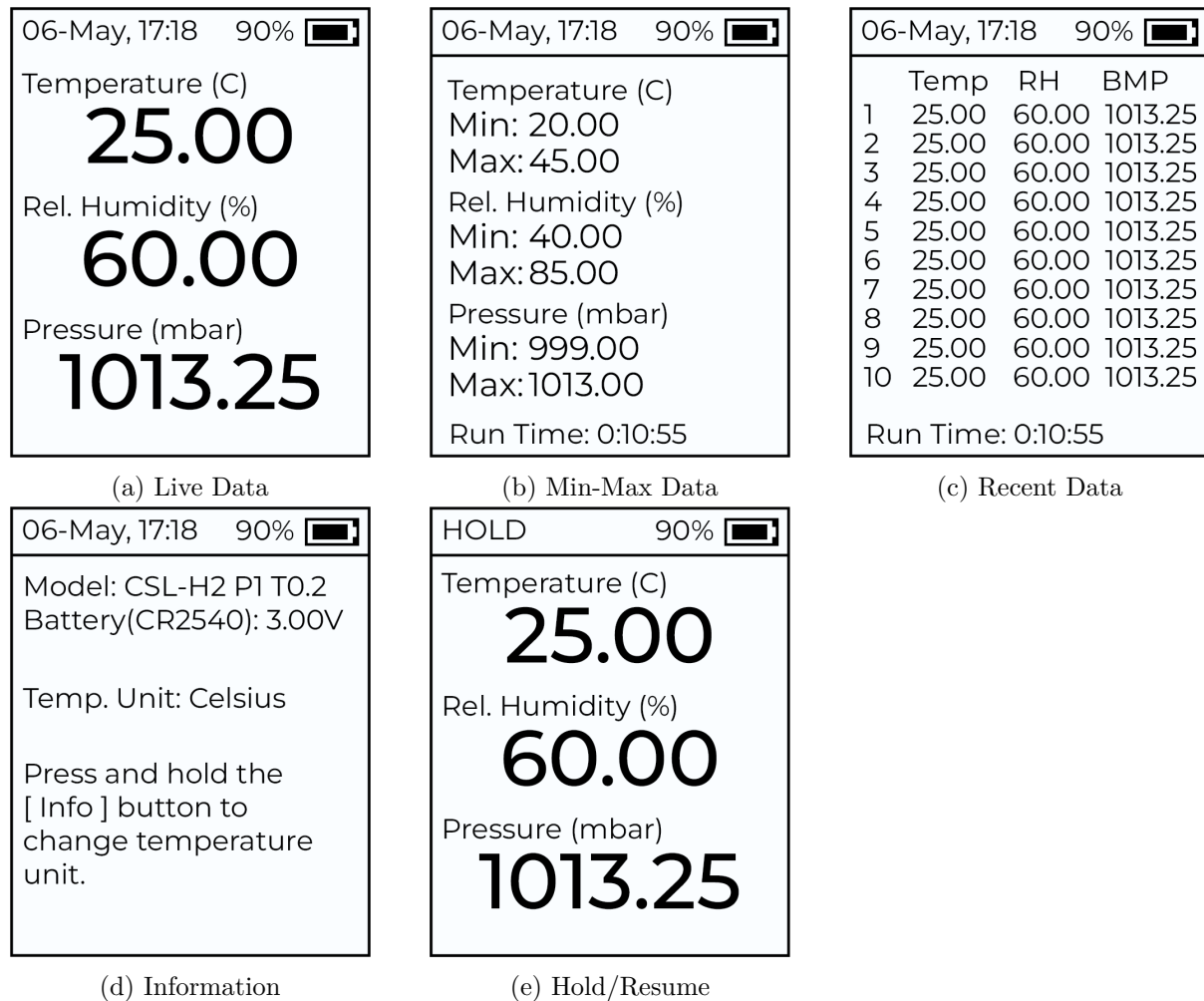


Figure 6: Showing different pages that appear on display unit.

The five buttons and their corresponding data pages are briefly discussed as follows:

1. **Live Data (6a):** Displays live data.
2. **Min-Max (6b):** Shows the minimum and maximum values recorded during a session, known as Run Time. The device calculates the Run Time starting from when the CSL-Series logger is connected until it is disconnected.
3. **Recent (6c):** Presents the most recent data (last 10 recorded data points).
4. **Info (6d):** Provides information about the logger model and battery status, and allows you to change temperature units.
5. **Hold/Resume (6e):** Allows you to pause live data, which eventually pauses the Run Time as well. Press hold button again to resume operation.