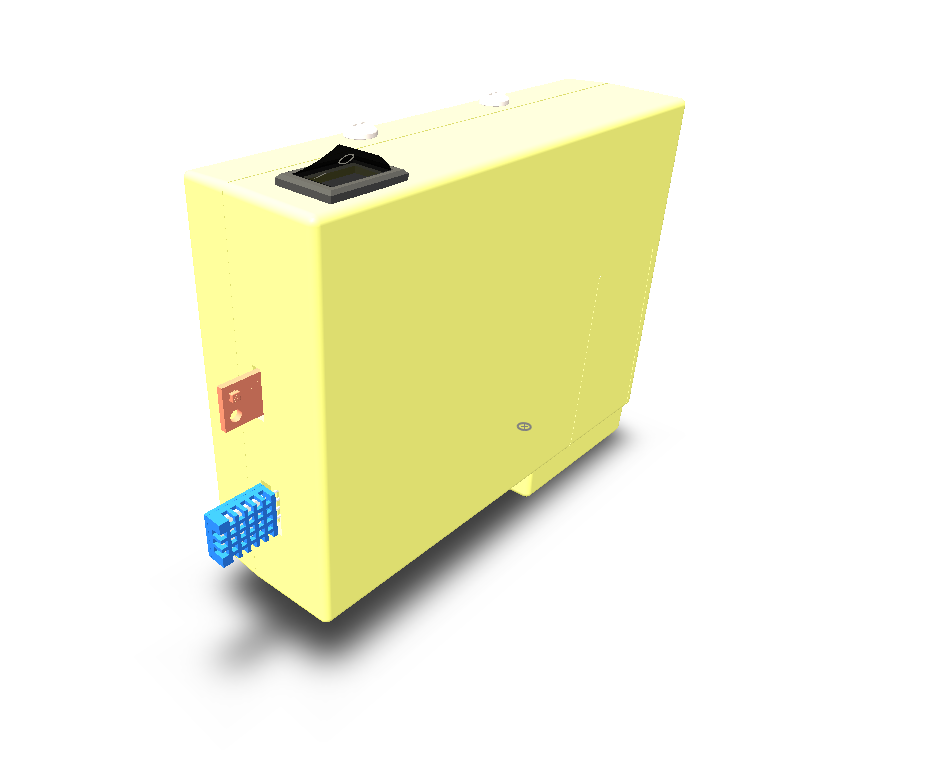
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| --- |
| Group 1 |
| Controlled Environment Monitors |
| Service Manual ( June 19 ) |

# Basic

## Product View - Sensor Unit / Display Unit



## Sensor Unit

## Overview

Controlled Environment Monitors are designed to raise an alarm when surrounding parameters exceed pre-set thresholds. Unlike household sensors CEM is designed to work off the grid. This makes it suitable to be used for monitoring closed agricultural environments like propagators and green houses.

# Display Unit

# Parts and Procedures

# Tools

* Clean non-marring work surface
* Multi-compartment screw tray (such as a plastic ice cube tray)
* #0 Phillips screwdriver (magnetized)
* Torx T6 screwdriver (magnetized)
* Black stick (nylon probe 922-5065) (or other non-conductive nylon or plastic flat-blade tool
* Razor knife
* Needle-point metal probe
* Needlenose pliers
* Kapton tape (922-1731 (0.5-inch x 12-yard roll))
* Thermal grease (922-7144, Pkg. of 3 syringes)
* Gasket kit (076-1206)
* Isopropyl alcohol cleaning wipes

## Warning

In this manual, graphics or photos are intended to help illustrate procedures or information only, and may show different levels of disassembly, board colors, configurations than your device.

# Disassembly and Repair

## Battery

### Part Location

### Procedure

1. Turn off the Display unit
2. Place the Display unit with the LCD screen face down.
3. Rotate the battery cover
4. Disconnect the battery connector and take out the battery

## Accessing the Internals

1. Remove the 2 screws from each side
2. Pry open the top case by holding from the edges

## Replacing the LCD

### Part Location

### Procedure

1. Open up the Display unit – See accessing internals
2. Disconnect the LCD connector
3. Press firmly on the LCD and pop it out
4. Pop in the new display
5. Reconnect the LCD connector
6. Closing

# Troubleshooting

LCD not working Side LEDs are off Device Turned off

# Exploded Views