



# **EZSELECT<sup>™</sup> PLUS**

## **EZSELECT<sup>™</sup> PLUS BATTERY SELECTION SYSTEM**



# **OWNER'S MANUAL**

# CONTENTS

<b>Introduction .....</b>	<b>3</b>
<b>System Components</b>	
Individual Components .....	4
Spare Parts .....	5
<b>Planning / Specifying Job</b>	
Installation Overview .....	7
Tools Required .....	7
Power Availability .....	7
Control Box .....	8
Charger Monitoring Devices (CMD) .....	8
Data Cable Requirements .....	8
Router Considerations .....	8
TV Driver Considerations .....	8
Installation & Commissioning Service .....	9
Pre-Installation Checklist .....	9
<b>Installation</b>	
Installation Overview .....	10
Control Box and CMD Installation .....	11
UPS & Router Installation .....	12
TV Driver Installation .....	13
External Shouter Installation (Optional) .....	14
Labelling the System .....	14
<b>System Configuration</b>	
Touch Screen Display .....	15
Passcode to Access Settings .....	15
Changing Passcodes .....	15
Pools and Chargers Configuration .....	16
Volume Adjustment .....	17
Display Pools .....	17
Running the System Dark .....	18
<b>Final Inspection &amp; Testing</b>	
CMD .....	19
Quarantine .....	19
CMD List .....	20
Shouter Test .....	20
<b>Installation Checklist .....</b>	<b>21</b>
<b>Operation</b>	
Selecting the Next Available Battery .....	22
System Feedback .....	22
CMD Visual LED Indications .....	22
Touch Screen Display .....	23
<b>System Daily Checks or Per Shift .....</b>	<b>26</b>
<b>Operation Checklist .....</b>	<b>27</b>
<b>Troubleshooting .....</b>	<b>28</b>

# INTRODUCTION

## EZSELECT<sup>™</sup> PLUS

The EZSelect<sup>™</sup> Plus battery selection system helps to maximise the performance of your battery room. It not only streamlines the process of selecting the correct batteries during battery change, it provides valuable management information on the batteries and chargers.

A fully installed system will have a Charger Monitoring Device mounted on each charger. This monitoring device also referred to as a CMD. The primary function of the CMD is to detect when the charger finishes charging and send this information to the Control Box. The Control Box is wired to all CMD and uses information received from these CMD to keep track of all charged batteries. CMD/chargers are grouped into units called Pools.

Each Pool is dedicated to a specific type/size of battery in the facility. The Control Box's other function is to inform the operator of which battery to pick to ensure maximum efficiency. This information is relayed through a display mounted on the control box, a Shouter that announces messages to the operator, and coloured LEDs mounted on the CMD.

**For service, contact your sales representative:**

**EnerSys<sup>®</sup> EMEA Headquarters**

**Phone:**

+41 44 215 74 10

**Address:**

EH Europe GmbH

Baarerstrasse 18,

6300 Zug, Switzerland

**Your Safety and the Safety of Others  
is Very Important**

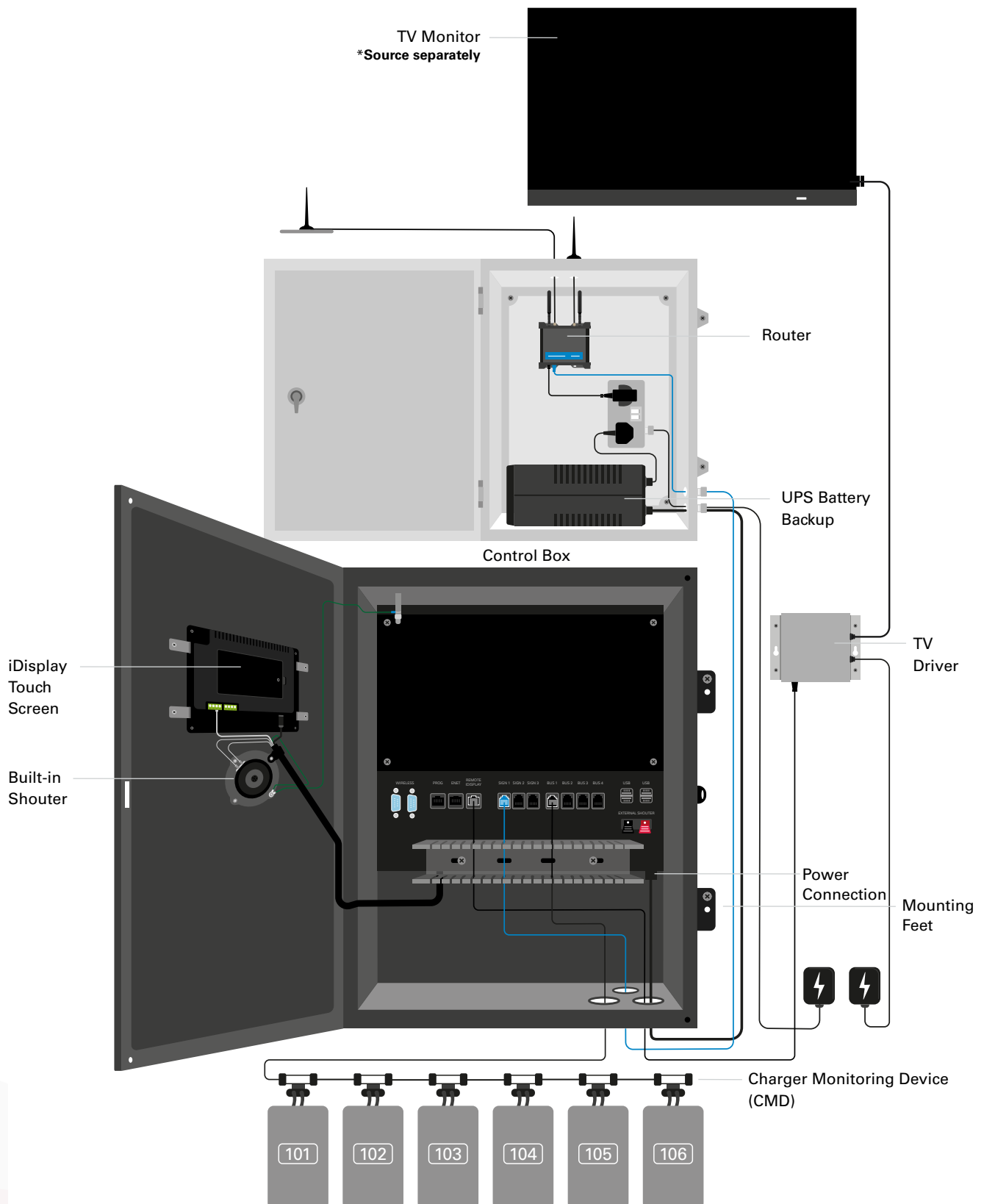
**⚠ WARNING** You can be killed or seriously injured if you don't follow instructions.



# SYSTEM COMPONENTS

## Individual Components

Figure 1: Overview of the EZSelect™ Plus battery selection system



# SYSTEM COMPONENTS

## Spare Parts



**EZS-CB6700EU-16**

EZSelect™ Plus battery selection system  
Control Box  
(Max 350 chargers; Max 9 pools)



**EZS-SU600R**

Charger Monitor Device (CMD)  
(2.1m data cable per CMD included)



**EZS-ROU**

Route  
(All cables included)



**EZS-143**

8m Data Cable with one coupler



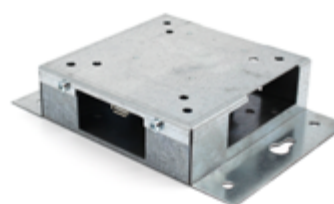
**EZS-161**

30m Data Cable with one coupler  
(Minimum 2 per Control Box, bus connection to first CMD)



**EZS-511**

UPS Battery Backup



**EZS-HDS6N2**

TV Driver  
(All cables and a mouse included)

# SYSTEM COMPONENTS

## Spare Parts (Optional)



**EZS-SH6000**  
External Shouter  
(15m speaker cable included)



**EZS-231**  
Splitter Kit for TV Monitor Display

# PLANNING/SPECIFYING JOB

## Installation Overview

On-Site installation can be divided into three stages:

- 1. Control Box**
  - a. Control Box
- 2. CMD Wiring Connections**
  - a. Mount to Chargers
  - b. Wiring from the Control Box to first CMD
  - c. Wiring from CMD to CMD
  - d. Labelling the Chargers/Battery Bays
- 3. Router & TV Driver**
  - a. Connecting Router
  - b. Connecting TV Driver
- 4. Charger Configuration/Final Testing**
  - a. Configure Pools
  - b. Configure Chargers
  - c. Testing Upload Capability
  - d. Operator Training

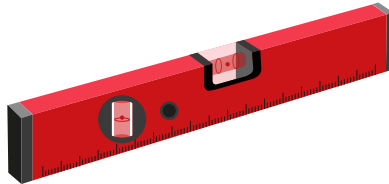
## Tools Required



Drill and Bit



Appropriate Screws  
& Anchors for  
mounting



Level



Screwdriver



Wire Cutters

## Power Availability

EZSelect™ Plus Battery Selection System Component Power Requirements:

### Control Box

Voltage: 100-240 VAC

Amperage: 1.3A

### Router

Voltage: 100-240 VAC

Amperage: 0.6A

### Layout planning instructions to consider

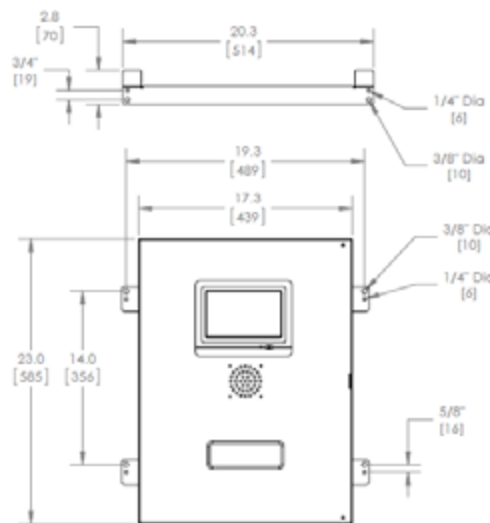
Extension cords can be used temporarily but surge protection is highly recommended for the Control Box.

# PLANNING/SPECIFYING JOB

## Control Box

- The Control Box should be located in a central position with sufficient room for the Router (EZS-ROU1) to also be installed nearby. Be sure that there is adequate clearance around the control box to connect cables, dimensions show in Figure 2.
- Mount in a visible area, free of obstructions.
- Keep the component away from water sources such as emergency showers and sinks.
- The Control Box Will be powered via the EZS-ROU1 unit.
- Use appropriate anchors as necessary to support the Control Box (6.8 kg).

Figure 2: Dimensions of Control Box



## Charger Monitoring Devices (CMD)

One CMD is needed per charger. CMD universal and can be used for any voltage from 12V to 80V.

## Router Considerations

The router housing (iHUB-ROU1) houses both the router and UPS for the Control Box so it is important it is both close to the Control Box and a 240V power source.

## TV Driver Considerations

The TV Driver must be mounted within 3m of the Control Box. The TV should be mounted close to a suitable power and at a sufficiently high level in order to optimise visibility for the operators.

## Data Cable Requirements

Data cables connect the Control Box to the CMD. When planning an installation, cable lengths should be kept to a minimum. With every Control Box you will have:

- 4 x 15m cables
- 4 x cable couplers

The distance between the Control Box and the first CMD is critical. Two examples of bus cabling are shown in Figure 3.

**Bus 1:** 15m of cable needed even though it was only 3 meters from the Control Box to the first CMD.

**Bus 2:** 30m of cable needed as it was located on the other side of the aisle to the first CMD.



## Installation & Commissioning Services

The EZSelect™ Plus battery selection system is designed to not require commissioning by EnerSys®, but if assistance is required, it is offered by request. Installation videos are available online.

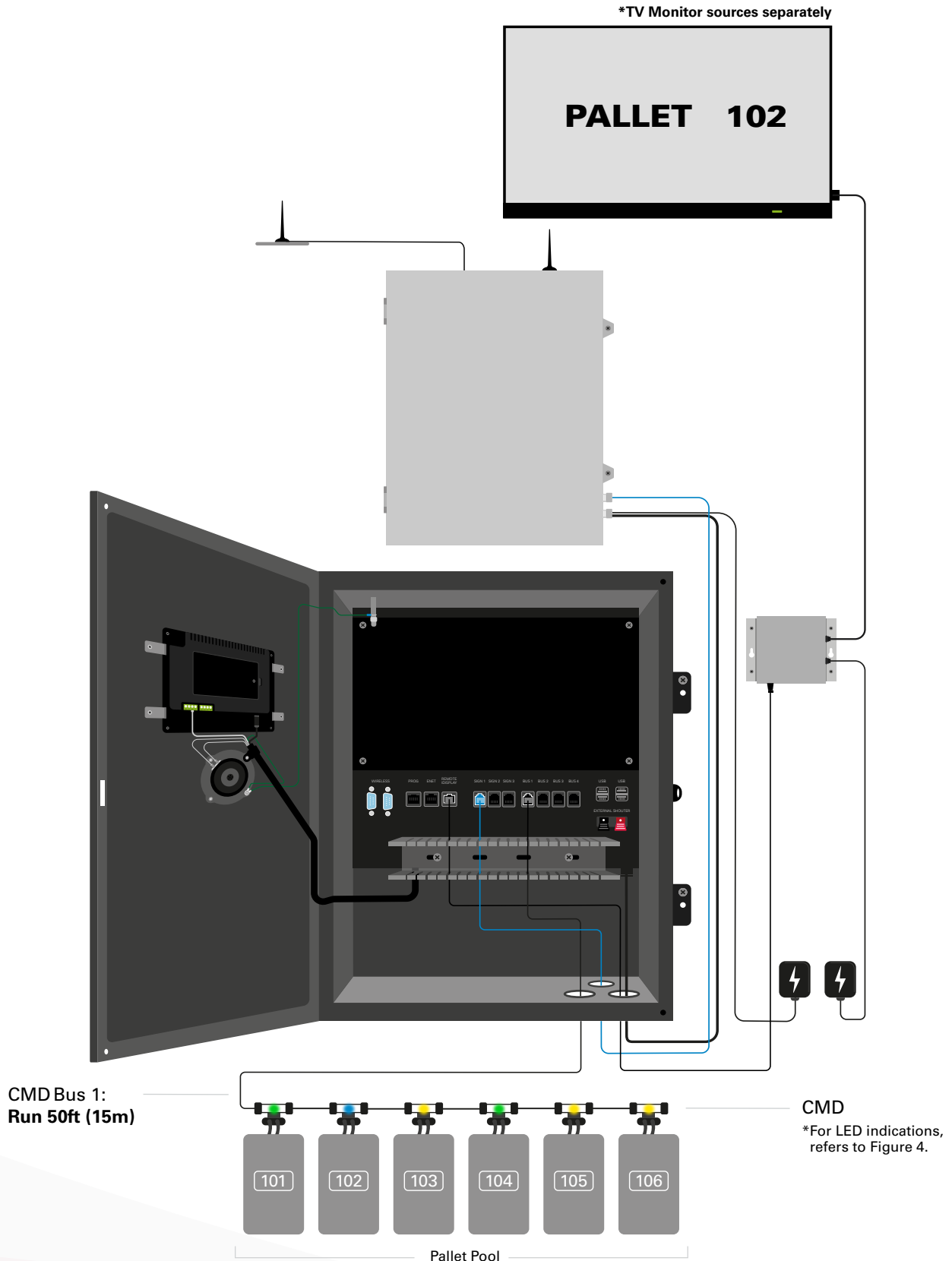
## Pre-Installation Checklist

Task	Status
<b>A. Plan Location of Control Box and Router</b>	
<ul style="list-style-type: none"><li>• Power for Control Box and Router</li><li>• Near chargers</li><li>• Plan for data cable run to the first CMD in each bus</li></ul>	<input type="checkbox"/>
<b>B. Gather all required tools and equipment</b>	
<ul style="list-style-type: none"><li>• Ladders and/or scissor lifts</li><li>• Power tools - for mounting Control Box, etc.</li><li>• Hand tools - wire cutters, screwdriver</li><li>• Extension cords for temporary power</li><li>• Anchors for mounting components as necessary</li></ul>	<input type="checkbox"/>

# INSTALLATION

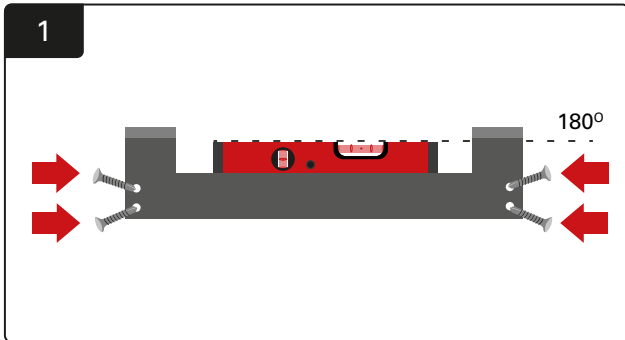
## System Overview

Figure 3: Sample layout of the EZSelect™ Plus battery selection system installation



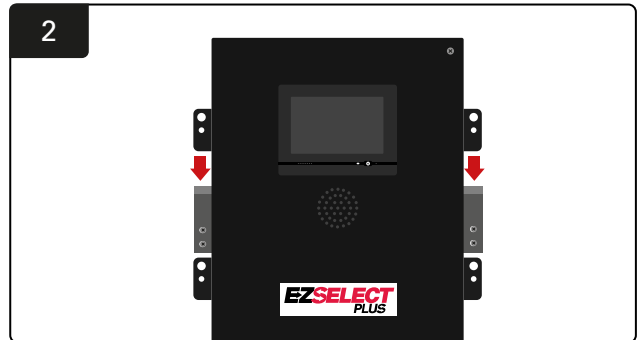
# INSTALLATION

## Control Box & CMD Installation



### Install Straight Mount

Mount the straight to the wall at eye height using four screws/anchors and a level.



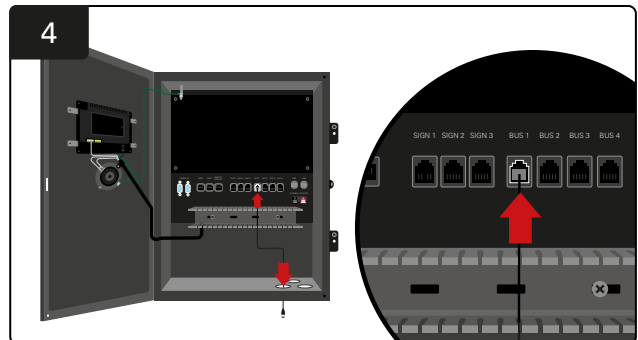
### Install Control Box

Slide the Control Box into the bracket.

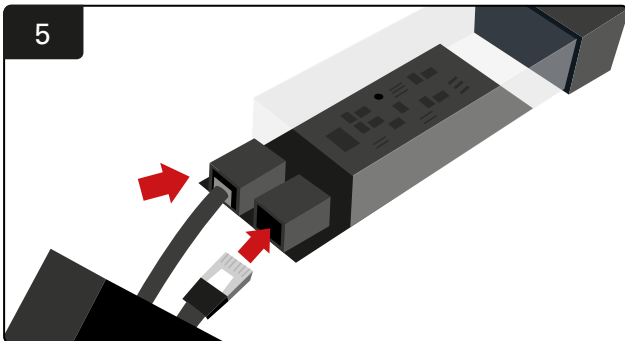


### Install Control Box

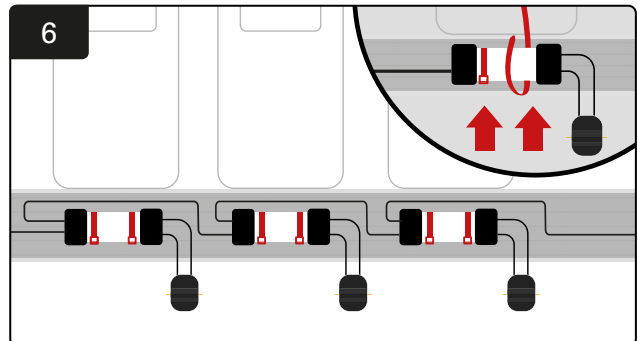
Mount the control box to the wall at eye height using four screws/anchors and a level.



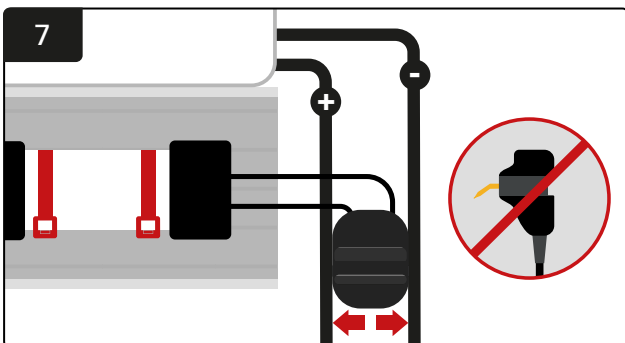
Insert the first CMD data cable through bottom port into one of the available bus sockets in the Control Box.



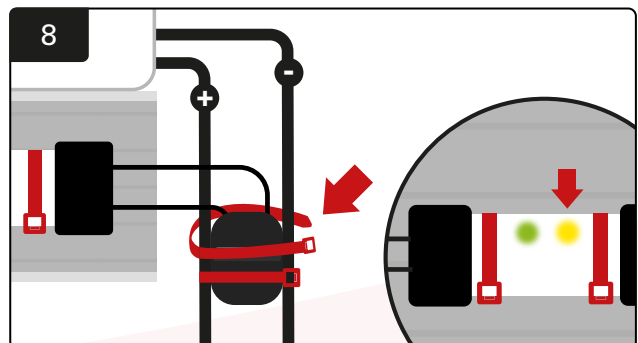
Insert the first CMD data cable into a socket on the first CMD. Connect the next data cable into the other socket.



Mount the CMD with cable ties so that it is visible, safe and secure. Connect CMD in series until all CMD on bus are connected.



Connect the two FlexiTabs to the sides of the connector. Place the connector between the positive and negative cables. \*Ensure they are firmly attached to the connector and cables, the pins are in the centre of the cables and do not bend the pins.



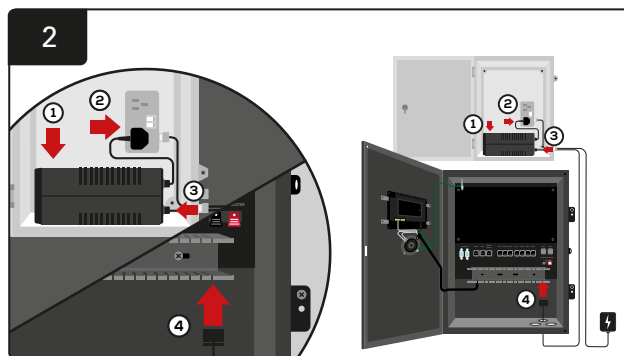
Secure the connector with cable ties. Confirm amber LED illuminates on the CMD with a battery connected.

# INSTALLATION

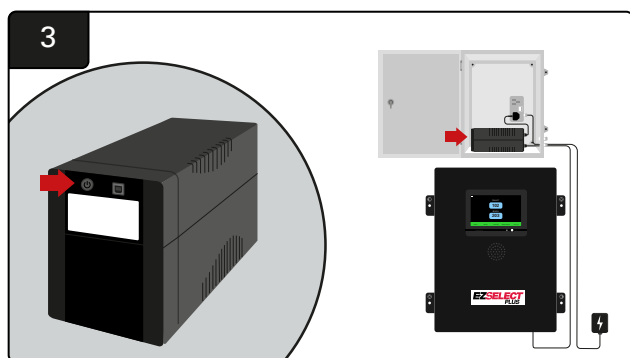
## UPS & Router Installation



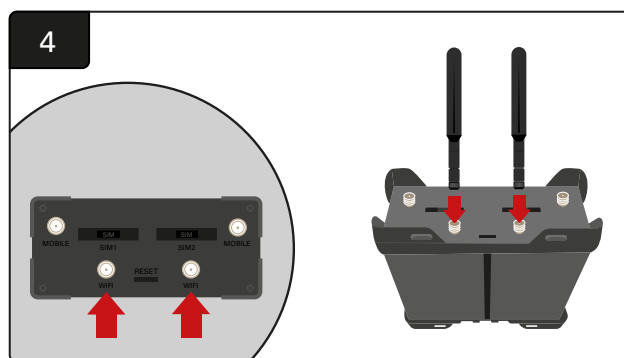
Mount the Router Box near the Control Box and suitable power supply using four screws, suitable wall anchors and a level.



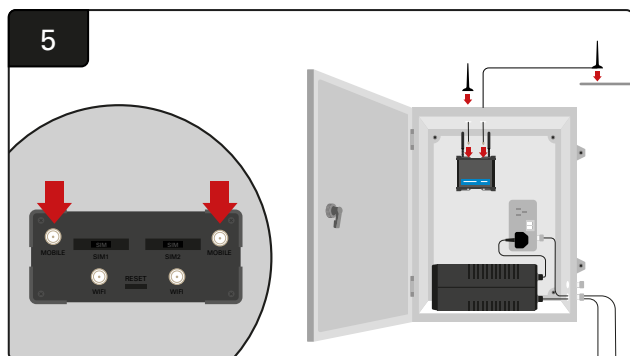
Place the UPS battery backup in the enclosure box, connect it into power source and plug Control Box power cord into UPS.



Turn on the UPS.

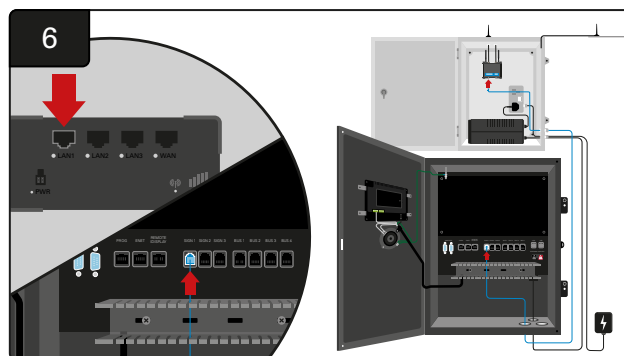


Connect the two WiFi antennae to the Router WiFi connectors.

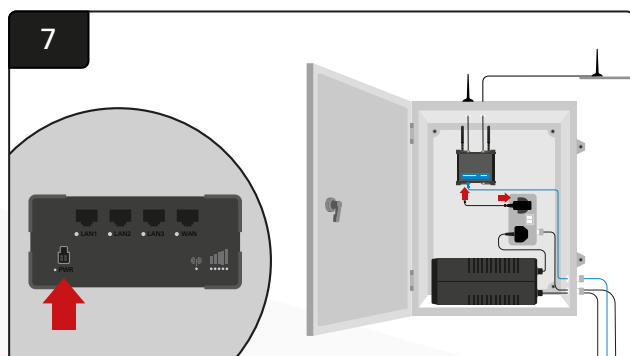


Connect the two wired antennae to the Router mobile connectors. Place one on top of the enclosure box, and the other one as high as possible.

**\*Keep at least 1m distance between the two wired antennae.**



Connect the data cable from one of the available sign sockets in the Control Box to the LAN Ethernet port on the Router.



Connect the Router to power source.

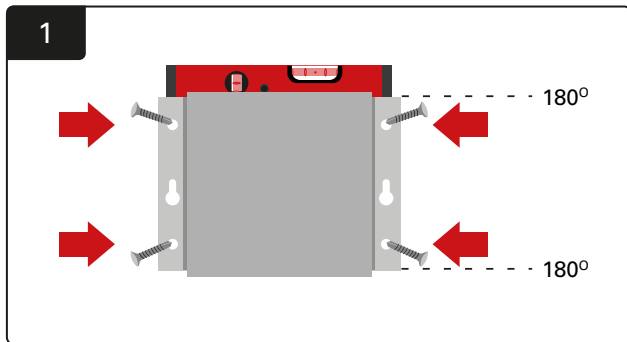
**After you have installed the Router Box, UPS and powered up all components, wait for five to ten minutes so it has established a connection and then reboot the Control Box.**

To do this, go to "Settings," "Internet," and "Reboot." You are now ready to do a data upload test. On the same Internet Settings Screen, select the "Upload Now" button and exit.

After five minutes press the Status tab on the home screen and in the bottom left hand corner you will see "Time Since Last Upload." This should be within the last 5 minutes.

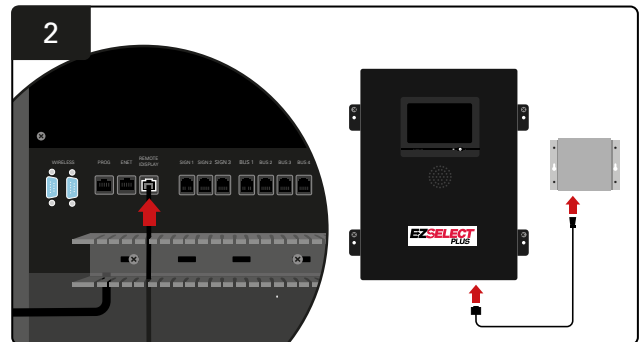
# INSTALLATION

## TV Driver Installation

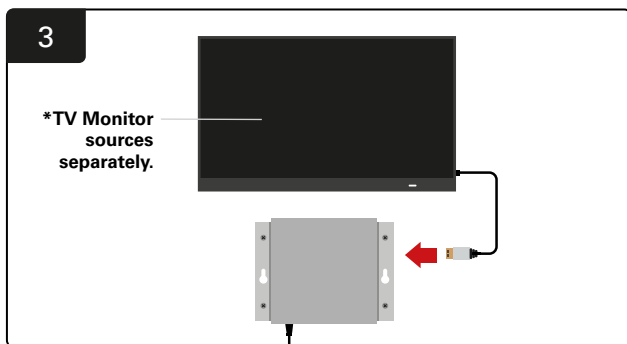


Mount the TV Driver to the wall using four screws/anchors and a level.

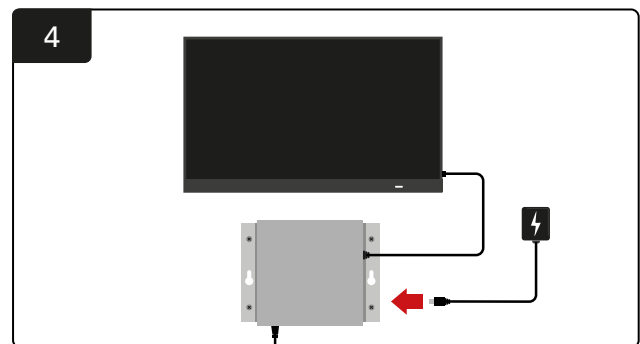
\*Keep the distance between the Control Box and the TV Driver under 2.5m to make sure there's a good connection.



Connect the TV Driver to the 'Remote iDisplay' socket in the Control Box.

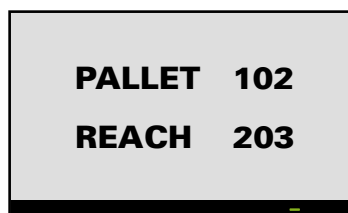


Connect the HDMI cable to the TV Driver and the TV Monitor\*.



Connect the TV Driver to power source.

### Start-up Sequence



ON



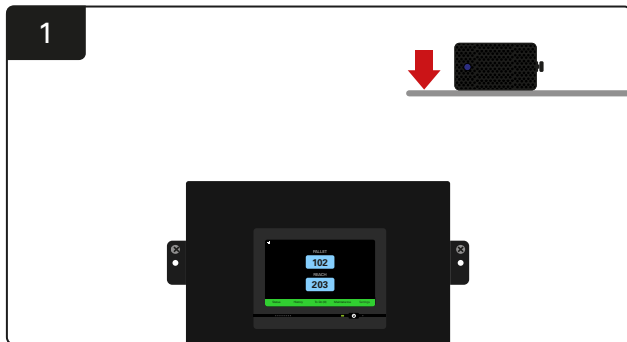
ON



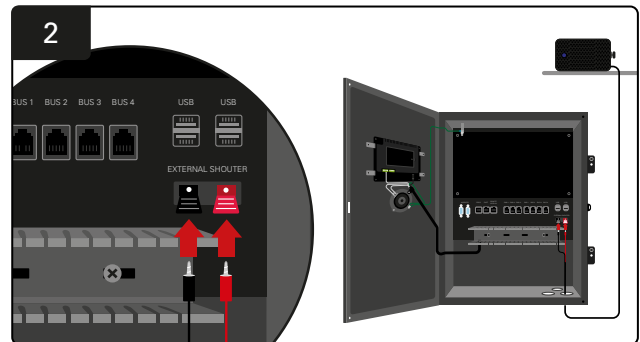
Switch on The TV, after 5 minutes with the Control Box powered on, power up the TV Driver.

# INSTALLATION

## External Shouter Installation (Optional)



Mount the external shouter above the Control Box within 15m of the provided audio cable.



Connect the two leads into the external shouter sockets in the Control Box.

## Labelling The System

The EZSelect™ Plus battery selection system communicates with the operator by referencing a charger number. It is always important to keep the charger numbering system organized to maintain the smooth process of selecting a battery.

When setting up the charger numbering system in the facility it is recommended to follow a 3 digit format (as shown in all examples within this manual) where the first digit references the pool and the second and third digit reference the battery number in that pool.

A pool is a group of batteries that have been grouped by type, i.e. Powered Pallet Trucks and Reach Trucks. As a basic rule of organising batteries, there will always be at least one pool per type of battery in the facility. There are some scenarios where it would be preferable to have more than one pool per type of battery. The EZSelect™ Plus battery selection system has a maximum availability of 9 pools.

Both the TV screen and the screen on the Control Box should match the charger labels making it easier for operators to navigate to the correct battery. An example is shown below.

PALLET	REACH
101	201
102	202
103	203

Example of  
3-digit organization

*\*Charger labels will be provided with each EZSelect™ Plus battery selection system.*

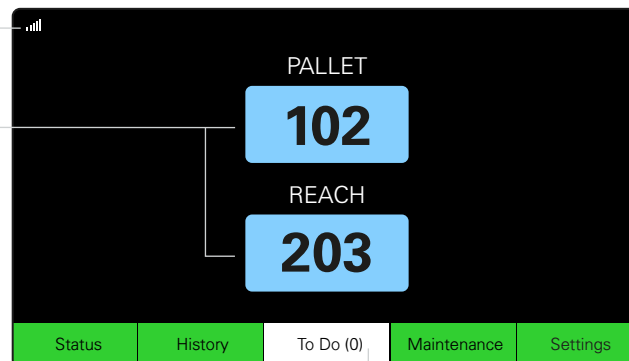
# SYSTEM CONFIGURATION

## Touch Screen Display

Signal showing communication between display and controller.

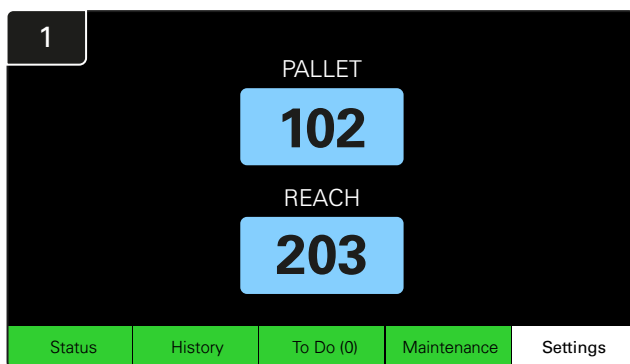
Next battery to take for each of the pools.

\*The home screen will automatically display up to 9 pools.

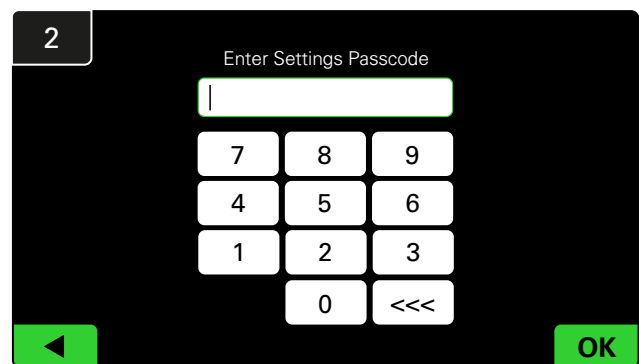


Click on the "To Do" button if it turns red - Check if chargers in quarantine or CMD not reporting.

## Passcode to Access Settings

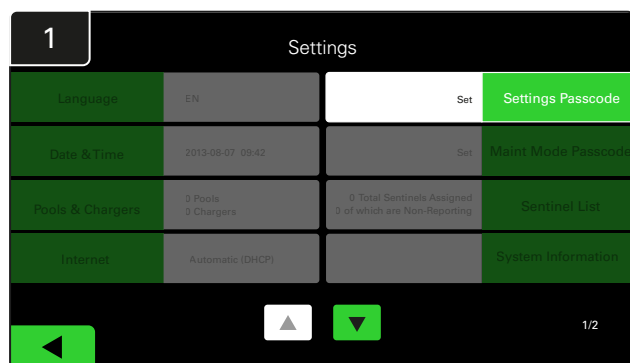


Click **Settings** on Home Screen.

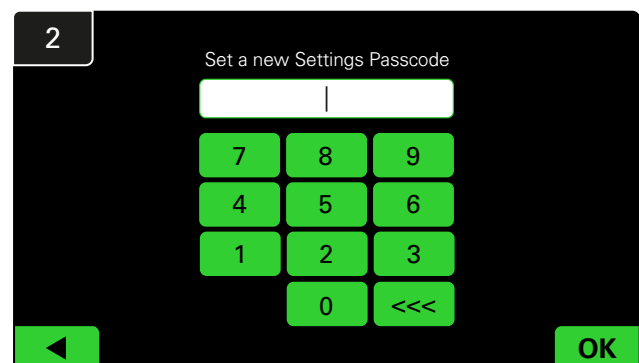


Enter default passcode **919191** then click **OK**.

## Changing Passcodes



Click **Settings Password** or **Maint Mode Password**.



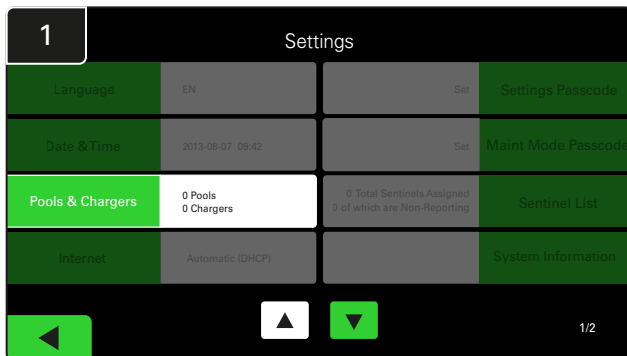
Enter the **New Passcode**\* then click **OK**.

\*If you prefer to remove the passcode(s) during installation, leave it blank and click OK. Setting the passcode before leaving site is recommended.

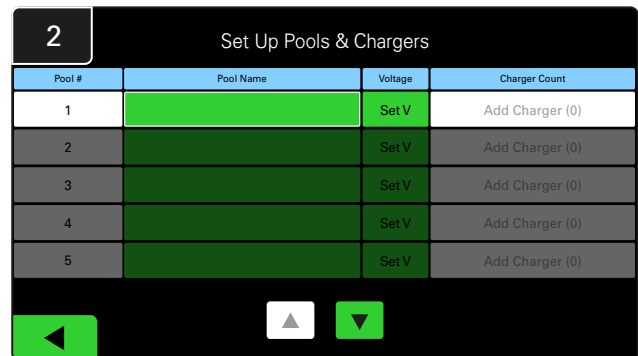
#The password(s) can be recovered from EnerSys® if lost by contacting the correct regional department with the system Control Box serial number.

# SYSTEM CONFIGURATION

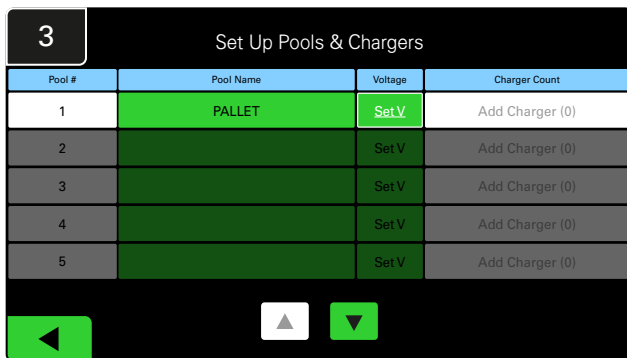
## Pools and Chargers Configuration



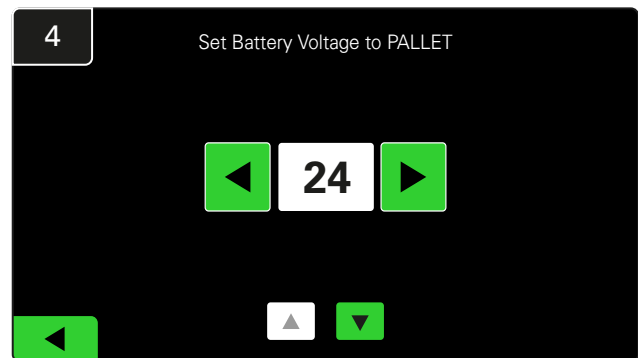
Click **Pools & Chargers** under the settings menu.



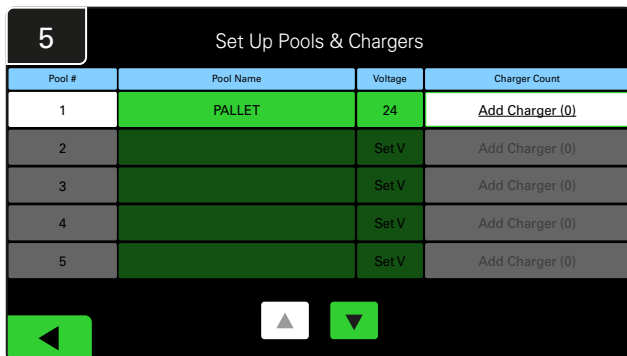
Click on the first blank Pool key and type in the name of the pool.



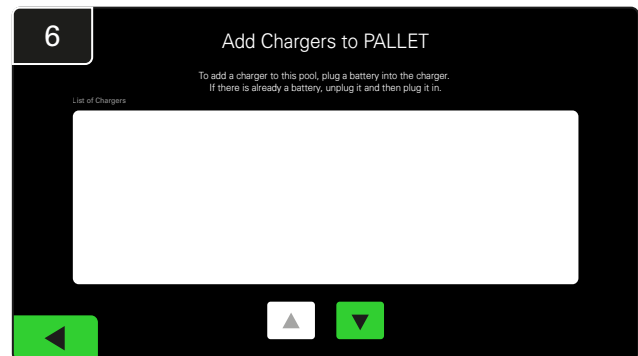
Notice the Pool name is now set up.  
Click on the **Set V** button that corresponds to the pool's voltage.



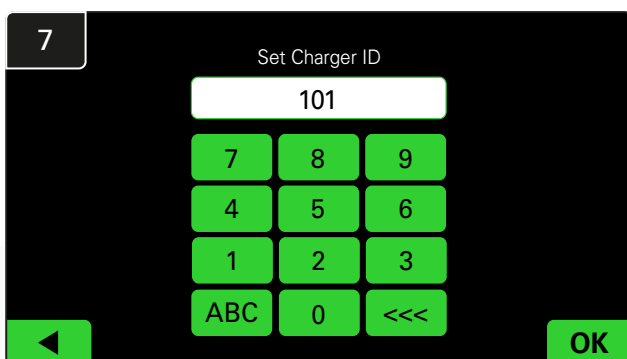
Select the correct pool voltage.



**Add Charger(s)** to the pool.



Go to the charger.  
Disconnect and reconnect the charger you want to add.



Enter the number to set Charger ID.

\*This screen will pop up when EZSelect™ Plus battery selection system detects the connected battery.

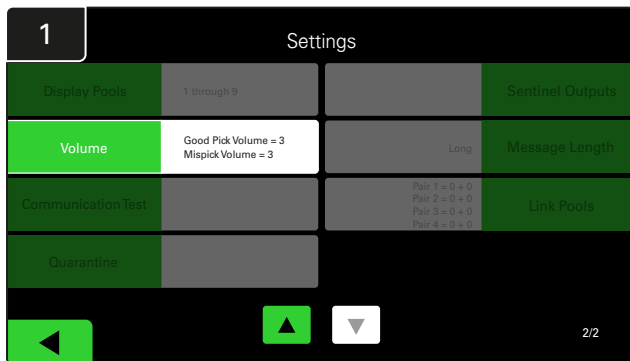
Repeat step 1 to 6 to set up additional pools and chargers.

**N.B.** This is the number that will be displayed on the TV.  
It must also match the charger labels.

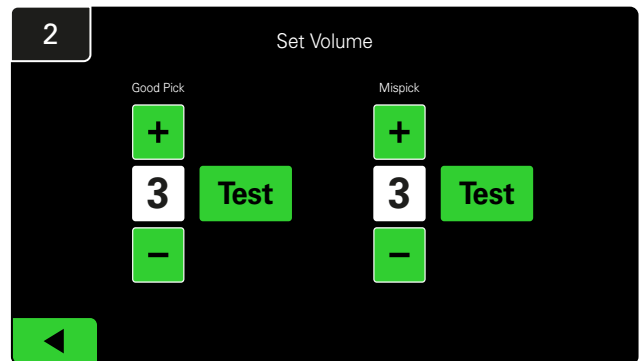


# SYSTEM CONFIGURATION

## Volume Adjustment

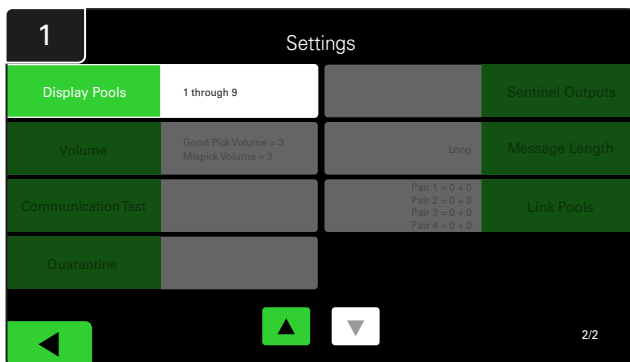


Click **Volume** under the settings menu.

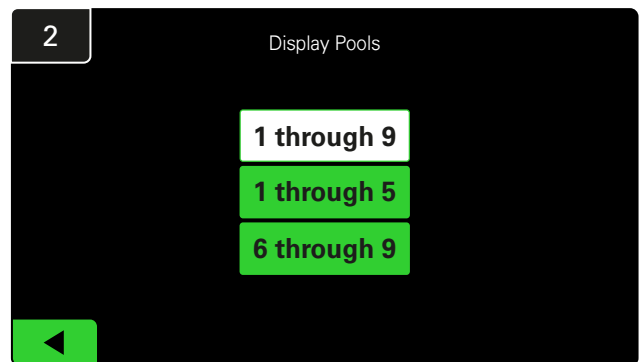


Set the volume between 0 (silent) and 5 (maximum).  
The test button will sound the alarm once.

## Display Pools



Click **Display Pools** under the settings menu.



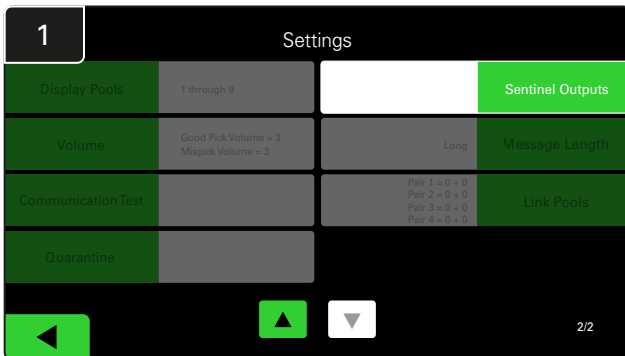
The iDisplay is set to display all by default, however you can select only particular pools to show.

# SYSTEM CONFIGURATION

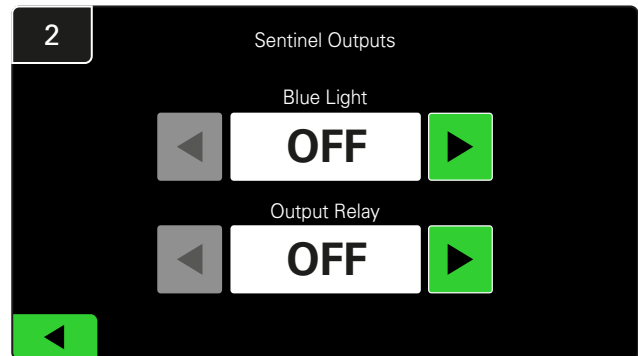
## Running The System In Study Mode

To quantify the benefits of the EZSelect™ battery selection system, it is suggested that you begin with a benchmark period of two weeks where the system gathers an initial baseline usage data sample. It's recommend on every new install in order to show a clear before and after. Running the system in Study Mode means that the system

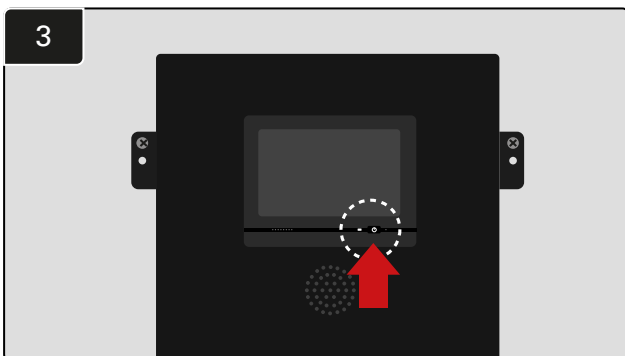
is gathering information but there is no battery selection guidance provided. This way you can tell what is really happening in your battery room, so you can compare the raw data with the improved performance once the system is giving commands.



Click **Sentinel Outputs** under the settings menu.  
(N.B. A CMD is referred to as a Sentinel in the panel software.)



Set both the **Blue Light** and **Output Relay** to **OFF**.



Turn off the iDisplay by pressing the power button on the front of the Control Box. This will also turn off the sound.

N.B. To turn the system to function normally, reverse previous steps.

# FINAL INSPECTION & TESTING

## CHARGER MONITORING DEVICE (CMD)

If you have successfully run the installation wizard for all of the CMD, then the green LED will be solid on each one.

If you want to double check the connection, you can disconnect a battery from a charger and then watch the system status screen. You should

see the charger ID. If you don't see the pool and charger ID you expected, then the system may be misconfigured.

The charger ID will move from column to column as the status changes.

## QUARANTINE

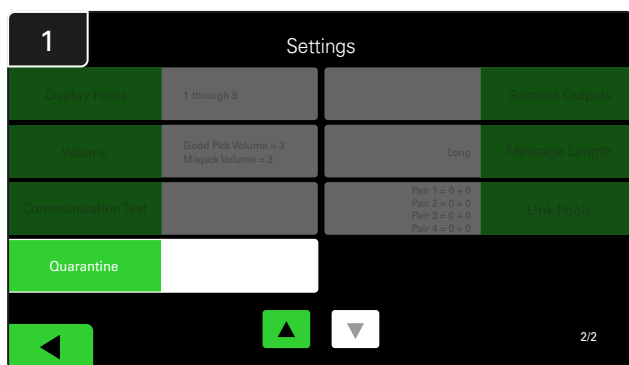
The Quarantine column shows the quantity of chargers that have not started or have not completed the charge of a battery that has been connected to it for 24 hours. The system quarantines the battery by taking it out of the queue, and if the issue is not resolved within 72 hours, the battery is returned to the queue.

3 days is the default factory setting.

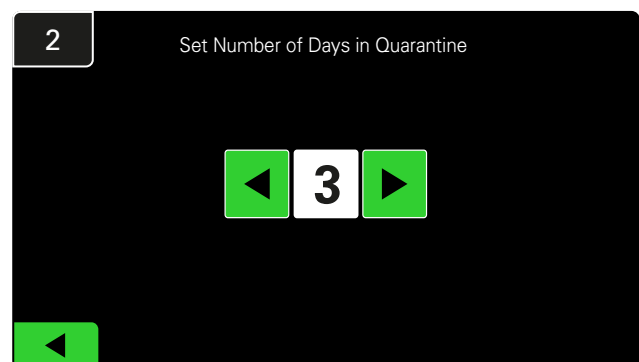
What to do if a charger is shown under quarantine:

- If any charger ID are listed in the column marked "Quarantine", check to see if the charger indicates a fault.

- Confirm that the amber LED is illuminated on the CMD, and that a battery is connected.
- If the display and all indicator lights on the charger are blank, check to see if there is power to the charger.
- If the charger is functioning properly, check the voltage of the battery as some chargers will not recognize an over discharged battery.
- To remove the battery from Quarantine, disconnect and reconnect the battery.



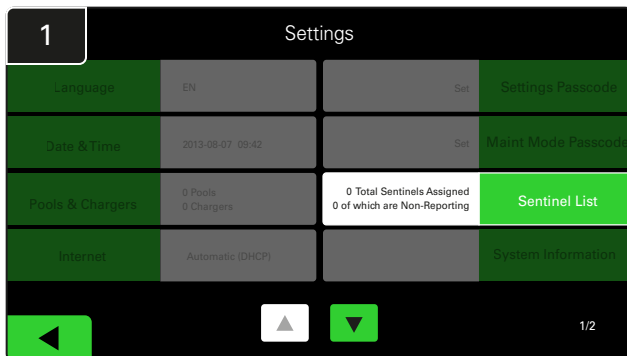
Click **Quarantine**.



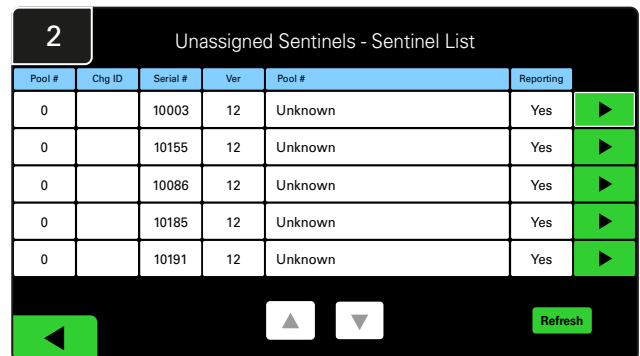
Increase or decrease the numbers of days passed before a charger is placed into Quarantine.

# FINAL INSPECTION & TESTING

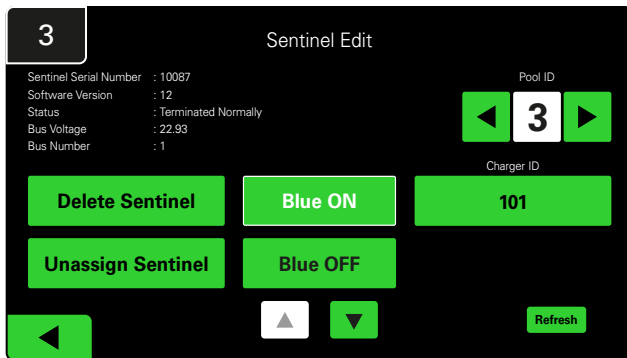
## CMD LIST



Click **Sentinel List**.  
(N.B. A CMD is referred to as a Sentinel in the panel software.)



This shows the number of unassigned CMD.  
Press the arrow on the right hand side to edit the CMD details.



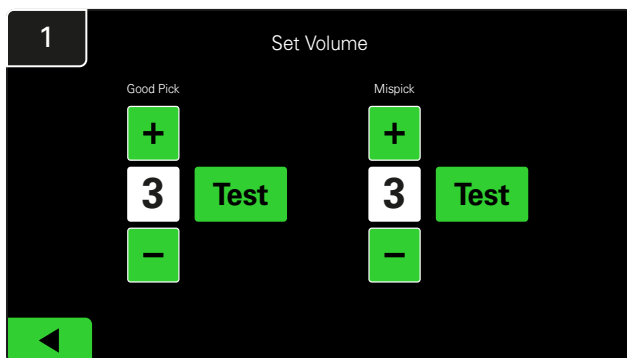
Press **Blue ON** to find the correct CMD and check details.

A CMD can be moved to a different Pool by scrolling through **Pool ID**. The charger number can be changed by pressing **Charger ID**.

Press **Blue OFF** when corrections have been made.

This function can also be used to program the CMD. If you know the CMD serial number you can assign it to a pool and give it a charger ID. You can then verify it is correct and all communication is working by turning on and off the blue light.

## Shouter Test



Test the shouter functionality by either unplugging a battery or pressing the **Test** button on the Set Volume screen.

# INSTALLATION CHECKLIST

Task	Status
1. Make sure all CMDs are displaying a solid green light.	<input type="checkbox"/>
2. Make sure all CMDs are assigned and reporting via the CMD List under Settings on the home screen.	<input type="checkbox"/>
3. Test the Shouter for "Correct" and "Incorrect" battery pick sounds from the menu. Test this by clicking "Settings" then "Volume." Also select desired volume at this time.	<input type="checkbox"/>
4. Test the upload capabilities of the EZSelect™ Plus battery selection system via the Internet.	<input type="checkbox"/>
5. If the passwords were disabled during installation, reset the Maintenance default password to "1111" and the Settings default password to "919191." Or set passwords of your own choosing.	<input type="checkbox"/>
6. Check that the date and time are set correctly.	<input type="checkbox"/>
7. Check that all chargers are labelled correctly using the included labels.	<input type="checkbox"/>
8. Check Charger Settings to make sure "Cool Down" setting and "Delay Equalization Charge" are set to "Off."	<input type="checkbox"/>

# OPERATION

## Selecting The Next Available Battery

Keep all batteries plugged in until they are selected unless they are selected for maintenance. The system detects when a battery is connected to the

charger, when the charger starts and finishes, and how long the battery is connected to the charger before it is picked.

How to select next available battery:



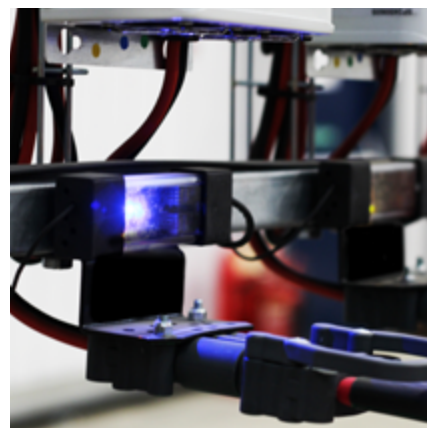
### ① TV Display

Indicates the pool(s) and the next battery to select.



### ② Touch Screen Display

Indicates the next battery to select.



### ③ CMD

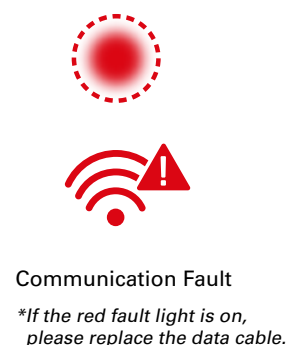
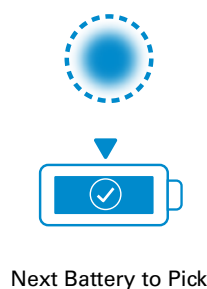
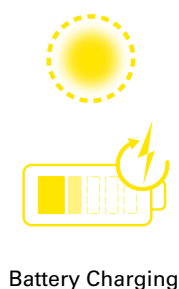
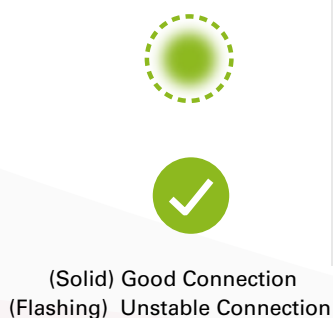
Blue LED indicates the battery is available to pick.

## System Feedback

- The shouter on the Control Box sounds with a pleasant chime when the battery indicated by the system is selected.
- The shouter on the Control Box sounds with an alarm and message when a battery other than the one indicated by the system is selected. When this occurs, the system considers it as a 'mispick'.
- All mispicks are logged by the system and can be viewed through the History tab on the Home Screen of the touch screen display or through the website, [batterymanagement.net](http://batterymanagement.net).

## Charging Monitoring Device (CMD) Visual LED Indications

Figure 4: LED Indications for CMD



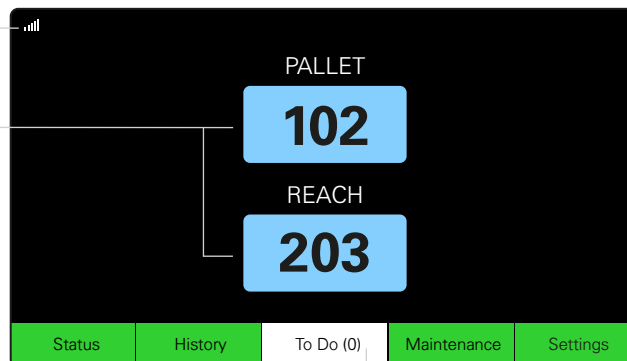
# OPERATION

## Touch Screen Display

Signal showing communication between display and controller.

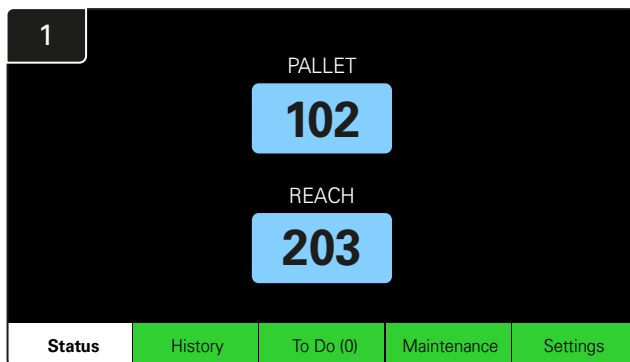
Next battery to take for each of the pools.

\*The home screen will automatically display up to 9 pools.



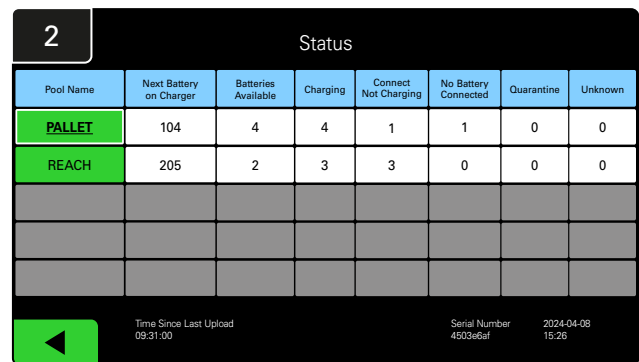
Click on the "To Do" button if it turns red - Check if chargers in quarantine or CMD not reporting.

## A. Status

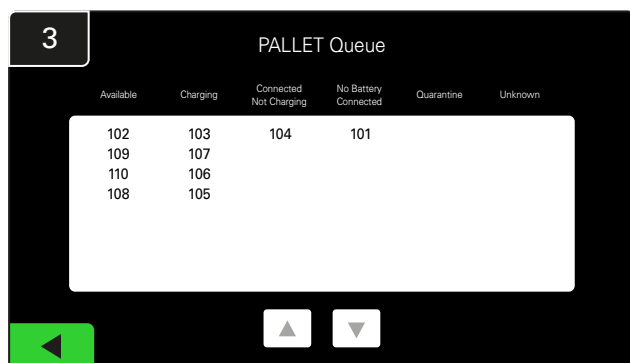


Click **Status** on Home Screen.

\* If no battery number shown on the home screen, check the 'Batteries Available' under Status.



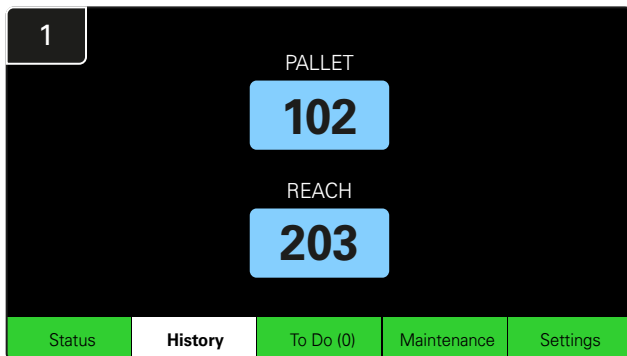
Click the **pool name (e.g. PALLET)** to check the batteries status in the pool.



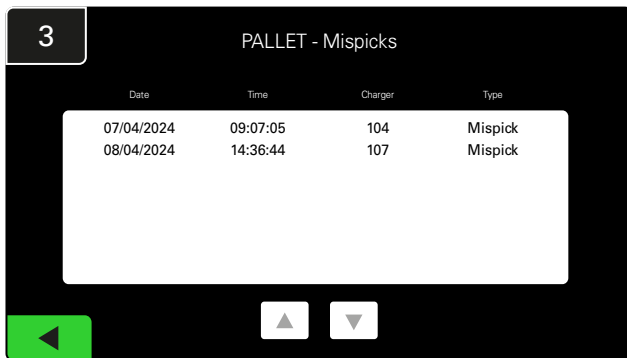
The queue screen shows the status of each of the chargers in the pool.

# OPERATION

## B. History



Click **History** on Home Screen.  
The statistics for the *last seven days* will be displayed.



The last seven days history of the chargers detail under the selected metrics will be shown.



Select the **Green Button** for more detailed batteries information of respective pool.

### \*Definition of the metrics

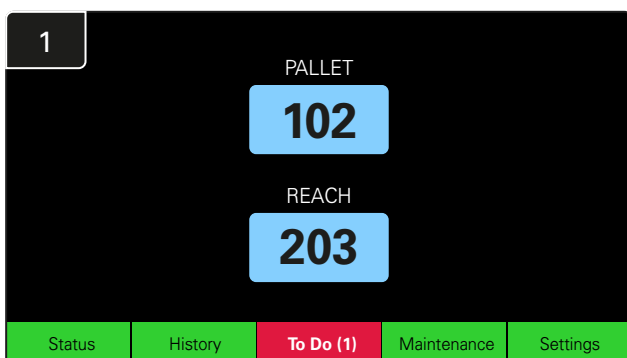
**Selections:** The number of battery was pick for that pool.

**Mispicks:** The number of times a battery was picked from the pool instead of the one chosen by the system.

**Zero Available Picks:** The number of times a battery was picked when no batteries were fully charged.

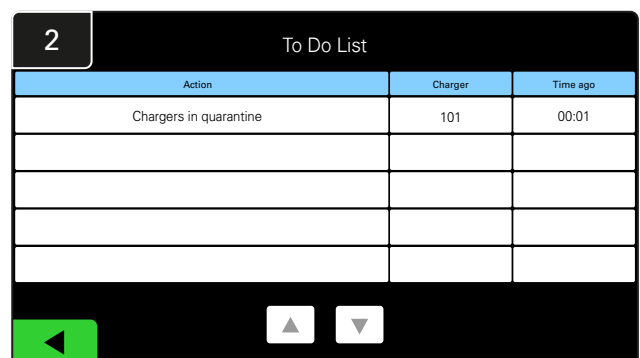
**Minimum Batteries Available:** A graph displays the daily count of fully charged batteries over the last seven days.

## C. To Do



Click **To Do** on Home Screen if it turns red.  
Check if chargers in quarantine, any CMD not reporting or chargers to be switched.

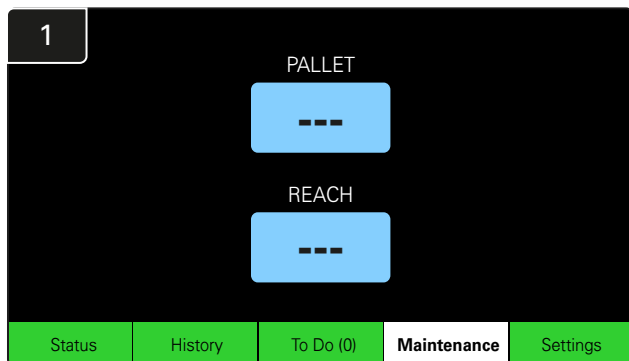
\*The number in the bracket ( ) shows how many fault alerts.



If there are any alerts, they will be listed.

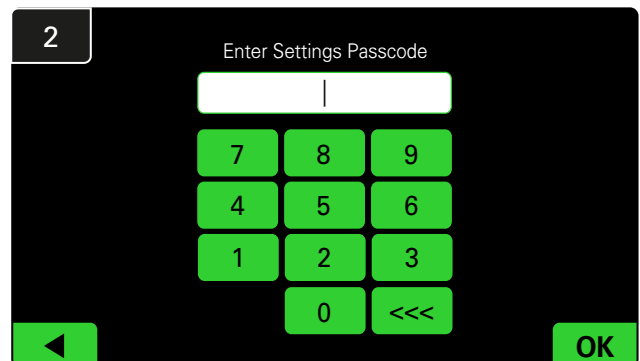


## D. Maintenance



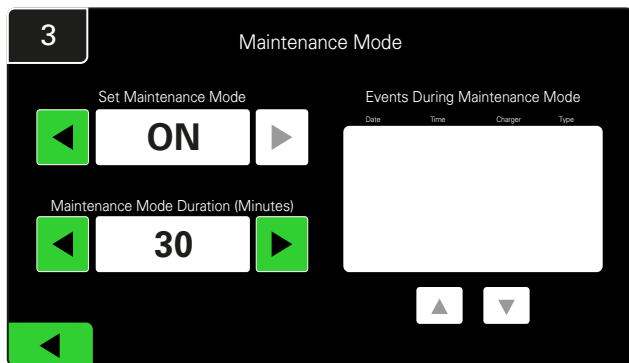
Click **Maintenance** on Home Screen to pick batteries that need service.

\*While Maintenance Mode is on, the system does not show which battery to pick next. But all picks are still recorded.



Enter the **default Passcode 11111** then click **OK**.

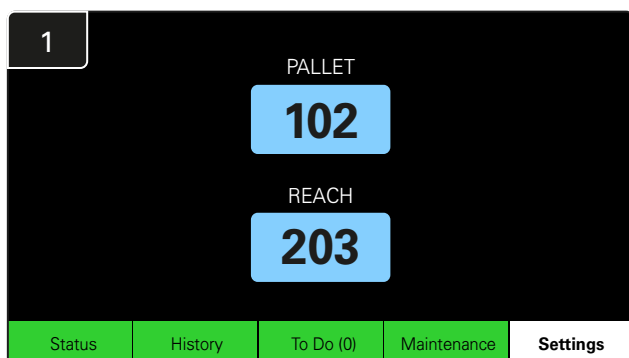
\*If you prefer to remove the passcode during operation, refer to Changing Passcodes section.



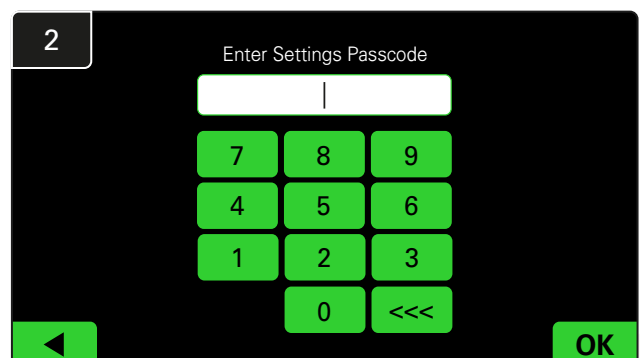
The duration of Maintenance Mode can be set from 5 - 120 minutes. An auto timer then returns the system to normal operating mode.

Maintenance Mode can also be cancelled manually.

## E. Settings



Click **Settings** on Home Screen.

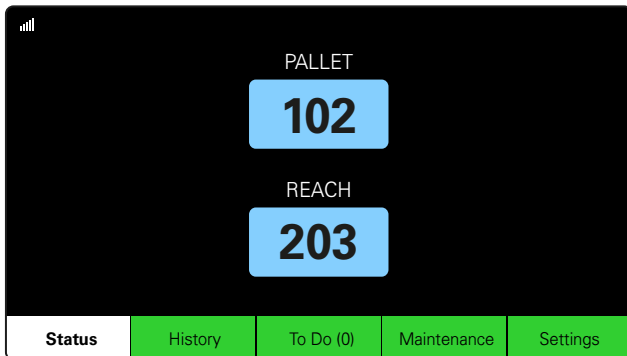


Enter default passcode **919191** then click **OK**.

\*To change the passcode, refer to Changing Passcodes section.

\*Refer to System Configuration section for more detail information.

# SYSTEM DAILY CHECKS/PER SHIFT



## Step 1

Check the system **Status** in the beginning of the day or beginning of the shift.

The screenshot shows a black background with white text. At the top, the word 'Status' is centered. Below it is a table with the following columns: Pool Name, Next Battery in Charge, Batteries Available, Charging, Connect Not Charging, No Battery Connected, Quarantine, and Unknown. The table has two rows of data: PALLET and REACH. Below the table, there is a green button with a left arrow, and text indicating 'Time Since Last Upload 09:31:00', 'Serial Number 4503e6af', and '2024-04-08 15:26'.

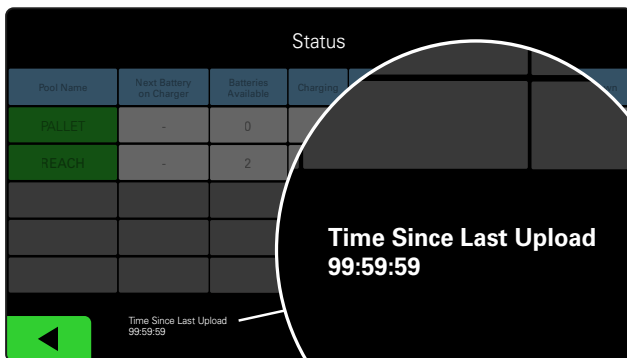
Pool Name	Next Battery in Charge	Batteries Available	Charging	Connect Not Charging	No Battery Connected	Quarantine	Unknown
PALLET	-	0	4	1	1	0	0
REACH	-	2	3	3	0	0	0

## Step 2

Determine if the following conditions exist:

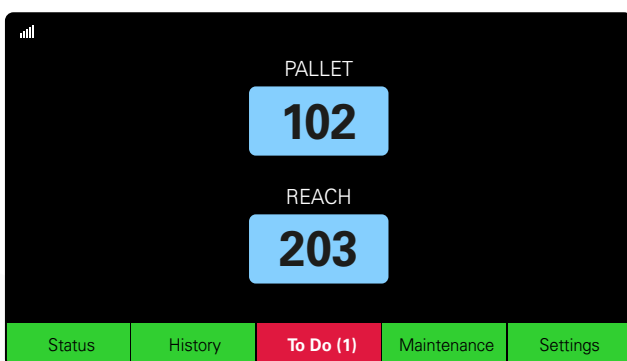
1. No batteries available
2. Batteries connected but not charging
3. Chargers with no battery connected
4. Batteries in quarantine
5. Unknown

*\*If any of these conditions exist, refer to Troubleshooting section.*



## Step 3

If 'Time Since Last Upload' reads 99:59:59, it means the system is not uploading. Please contact your service distributor.



## Step 4

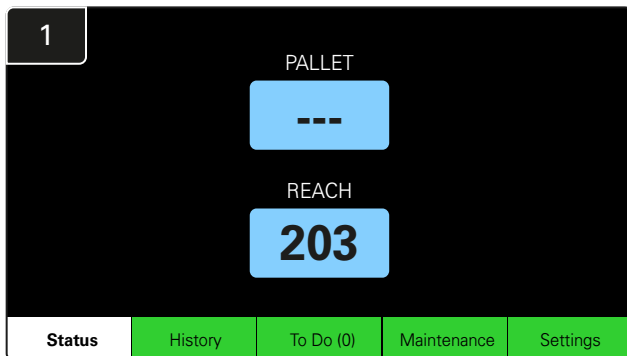
Check the **To Do** button in the beginning of the day or in the beginning of the shift, click to see if any fault alert is on if it turns red.

# OPERATION CHECKLIST

Task	Status			
1. Are there batteries available?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Quantity Available (If yes)</u> Pool 1: __ Pool 2: __ Pool 3: __ Pool 4: __ Pool 5: __ Pool 6: __ Pool 7: __ Pool 8: __ Pool 9: __	
2. Are there any pools with no batteries available?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<u>List Pools (If yes)</u>	
3. Are there batteries connected but not charging?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<u>List Chargers (If yes)</u>	<u>Action Taken</u>
4. Are there chargers with no battery connected?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<u>List Chargers (If yes)</u>	<u>Action Taken</u>
5. Are there chargers in Quarantine?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<u>List Chargers (If yes)</u>	<u>Action Taken</u>
6. Are there chargers with Unknown Status?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<u>List Chargers (If yes)</u>	<u>Action Taken</u>
7. Time since last upload				

# TROUBLESHOOTING

## The Display Shows Dashes



If the home screen shows dashes instead of a charger number, check the Status screen.

2

Status

Pool Name	Next Battery on Charger	Batteries Available	Charging	Connect Not Charging	No Battery Connected	Quarantine	Unknown
PALLET	104	0	4	1	1	0	0
REACH	205	2	3	3	0	0	0

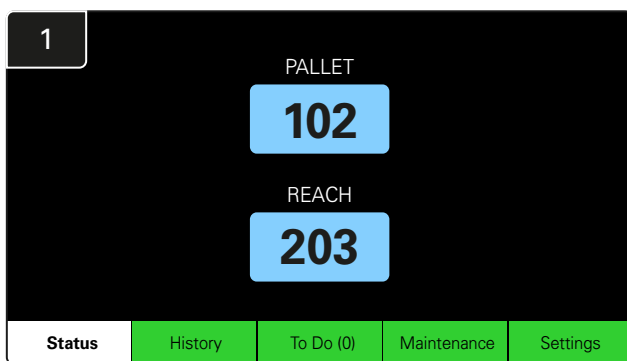
Time Since Last Upload: 09:31:00

Serial Number: 4503e6af

2024-04-08 15:26

Check if there are any batteries available.

## Troubleshooting from Status Screen



Click **Status** on Home Screen.

2

Status

Pool Name	Next Battery on Charger	Batteries Available	Charging	Connect Not Charging	No Battery Connected	Quarantine	Unknown
PALLET	104	0	4	1	1	0	0
REACH	205	2	3	3	0	0	0

Time Since Last Upload: 09:31:00

Serial Number: 4503e6af

2024-04-08 15:26

When you are in troubleshooting, focus on the last four columns: **Connect Not Charging**, **No Battery Connected**, **Quarantine** and **Unknown**.

## A. Connected Not Charging

A battery has just been connected and that the charger has not turned on yet.  
OR an issue with the battery or charger such that the charger will not start its charging cycle.

Status

Pool Name	Next Battery on Charger	Batteries Available	Charging	Connect Not Charging	No Battery Connected	Quarantine	Unknown
PALLET	104	0	4	1	1	0	0
REACH	205	2	3	3	0	0	0

Time Since Last Upload: 09:31:00

Serial Number: 4503e6af

2024-04-08 15:26

Check if:

- ☐ Any charger indicates a fault.
- ☐ The amber LED is flashing on the CMD, and a battery is connected.
- ☐ The charger is connected to power source if the display and all indicator lights on the charger are blank.
- ☐ The charger is set for a delayed start.
- ☐ The battery voltage is able to function with the charger if the charger is functioning properly, as some chargers will not recognize an over discharged battery.

# TROUBLESHOOTING

## B. No Battery Connected

The system does not indicate that a battery has been connected.

Status							
Pool Name	Next Battery on Charger	Batteries Available	Charging	Connect Not Charging	No Battery Connected	Quarantine	Unknown
PALLET	104	0	4	1	1	0	0
REACH	205	2	3	3	0	0	0

Time Since Last Upload: 09:31:00  
Serial Number: 4503e6af  
2024-04-08 15:26

Check if:

- ☐ A battery is in the charging slot on the battery rack.
- ☐ There is a battery connected to the charger listed.
- ☐ The amber LED on the CMD is on if a battery is connected.
- ☐ The amber LED on the CMD is not on even if a battery is connected. Check the battery connector to make sure it is not broken.
- ☐ The amber LED on the CMD is not on even if a battery is connected. Check the pin of the FlexiTap on the CMD is in the centre of the cable and do not bend the pin.

## C. Quarantine

This shows the quantity of chargers where a battery has been connected, but the charger has not started within 24 hours. The system quarantines the battery by taking it out of the queue, and if the issue is not resolved within 72 hours, the battery is returned to the queue.

Status							
Pool Name	Next Battery on Charger	Batteries Available	Charging	Connect Not Charging	No Battery Connected	Quarantine	Unknown
PALLET	104	0	4	1	1	0	0
REACH	205	2	3	3	0	0	0

Time Since Last Upload: 09:31:00  
Serial Number: 4503e6af  
2024-04-08 15:26

Check if:

- ☐ Any charger indicates a fault.
- ☐ The amber LED is flashing on the CMD, and a battery is connected.
- ☐ The charger is connected to power source if the display and all indicator lights on the charger are blank.
- ☐ The battery voltage is able to function with the charger if the charger is functioning properly, as some chargers will not recognize an over discharged battery.
- ☐ To take a battery out of quarantine, disconnect the battery from the charger and reconnect the battery.

## D. Unknown

This shows the number of chargers with an unknown status according to the system.

Status							
Pool Name	Next Battery on Charger	Batteries Available	Charging	Connect Not Charging	No Battery Connected	Quarantine	Unknown
PALLET	104	0	4	1	1	0	0
REACH	205	2	3	3	0	0	0

Time Since Last Upload: 09:31:00  
Serial Number: 4503e6af  
2024-04-08 15:26

Check if:

- ☐ The green LED on the CMD is solid. If it does, wait for a few minutes and check the Status screen again.
- ☐ The green LED on the CMD is not on. Check the data cables to make sure they are secure and not broken/ pinched.
- ☐ The green LED on the CMD is not on. Check the data cable is plugged into the Control Box.
- ☐ The green LED on the CMD is not on. Check the data cable is connected to the first CMD and the cable is connected between each CMD.
- ☐ The green LED on the CMD is not on. Check the Control Box is connected to a power source.
- ☐ The green LED on the CMD is flashing. Check the CMD has been assigned to a pool through the charger configuration.

# NOTES

[www.enersys.com](http://www.enersys.com)

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