User Guide

Emme Core

emme

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User Guide

Emme Core

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Getting Started

Congratulations! And thank you for purchasing Emme Core, the foundation of the world's first Energy and Environmental Management System designed specifically for homes and light commercial buildings. Emme Core comes with a smart thermostat application that's redefining the way you control heating and cooling. More control, timely information, increased efficiency, and improved comfort all packaged in an affordable, expandable, easy-to-use, internet connected device. It's time to get comfortable and start saving energy.

Using the Touch Screen

The Display uses touch screen technology that makes screen navigation easy! Touch buttons to access individual screens and menus. Drag your finger across the screen to scroll though lists of icons, buttons, and screen options.

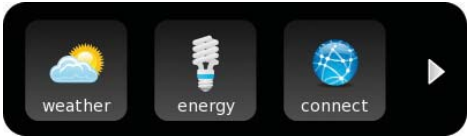
WARNING: To prevent damage to the Display, never use sharp objects (such as pens, pencils, etc) to touch the screen. Do not use harsh cleaners on the screen. Do not spray liquid cleaners directly onto the screen.

Buttons

The Emme interface makes use of various buttons, the following is a brief summary of the most common types.

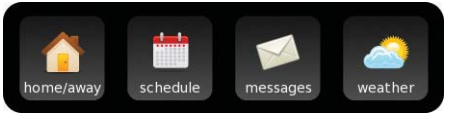
Buttons

When a list of buttons has an arrow next to them, it indicates there are more options then can fit on the screen. Drag your finger across the list in the direction opposite of the arrow to move the list in that direction. In addition, you can touch the arrow to see more options.



When there are Up and Down arrows, touch either of the arrow buttons to move the setting in that direction

Buttons let you access new screens or change settings, sometimes they are only labeled with an icon, other times they have short descriptions or both icons and descriptions.

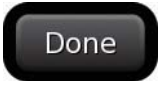


Buttons

Touch the **Add** button to add programming to a setting.

Touch the **Edit** button to change any setting that has already been programmed.

Touch the **Done** button when you have made a change to a setting and want to save that change and return to the previous screen.



Touch the **Cancel** button when you have made a change that you do not want to save. It abandons the change and returns to the previous screen.

The Emme Home Screen

The Home screen is where you'll find all of the top level menu items. You can display up to six items on the Home screen Menu Bar and you can browse through additional items by dragging your finger side-to-side on the menu bar or by using the small arrows to the left or right of the menu bar. To enter a menu just tap it. To return to the Home screen just tap anywhere in the upper status bar.

Emme Home Screen Components

1. Status Bar
2. Time and Date
3. Smart Thermostat Panel
4. Weather Panel
5. Menu Bar

System Modes

off	The system is off, there will be no heating or cooling
heat	The system will only heat
cool	The system will only cool
auto	The system will automatically switch between heating and cooling depending on your set points

Fan Modes

auto	The system will automatically mange the fan based on heating and cooling conditions and your settings
on	The fan will continue to run even without heating and cooling

Status Bar

The Status Bar provides an at-a-glance view of the current conditions of your Emme Core. In addition, tapping the Status Bar always takes you back to the home page.

Status Bar Icons

Emme:

Returns user to the Home screen

Status Bar Icons

Home/Away:

Emme Core is in home mode.

Emme Core is in away mode.

System Status:

No activity (Ideal)

Heating

2nd Stage Heating

3rd Stage Heating

Status Bar Icons

Auxiliary Heat

2nd Stage Auxiliary Heat

Cooling

2nd Stage Cooling

SmartCirculation

Circulation (fan)

Status Bar Icons

Network Connectivity:

Connected to a WiFi network and access to the internet

Connected to a WiFi network with no internet access

No connection to a WiFi network

Server Connectivity:

Emme Core is connected to the Emme server and there is someone accessing the system

Emme Core is connected to the Emme server

Emme Core is not connected to the Emme server

Status Bar Icons

Messages:

There are no new messages, alerts, or alarms

There is a new message

There is a new alert message (yellow triangle)

There is a new alarm message (red triangle)

Time and Date

The time and date is always displayed in the upper right corner of the screen.

Smart Thermostat Panel

This panel provides HVAC control and status. It displays the inside temperature and humidity. It also allows you to temporarily override the current schedule, put the system in Away mode, change the mode (heat, cool, auto), and fan setting.

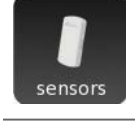
Weather Panel

This panel provide the current weather conditions as well as a two day forecast. High temperatures are in yellow while low temperatures are in white. Icons indicate current conditions. The Weather Panel will be blank if the system is not connected to the internet.

Menu Bar

All functions of Emme Core can be accessed through the Menu Bar on the home screen. You simply tap the button to access the pages below. The available space may not be large enough to show all of the buttons. You can scroll through all of the buttons by either using the arrow buttons to the right or left of the Menu Bar or by dragging your finger from side to side across the Menu Bar.

Menu Bar Buttons

	Schedule button: Allows you to use Programmable schedules for temperature transitions
	**Sensors button:** Allows you to manage your SmartSensors, including assigning a primary and renaming SmartSensor

Menu Bar Buttons

Messages button:
Allows you to access your messages

Weather button:
Allows you to see the six-day forecast (if connected to the internet)

Energy button:
Allows you to access the +Energy electricity monitor (if installed)

Connect button:
Allows you to set the email address that you would like reminders sent to and the ID and password for the internet portal login

Menu Bar Buttons

HVAC button:
Allows you to set up reminders, define circulation and multi stage requirements

Password button:
Allows you to enter a password to lock your Emme Core

Screen button:
Allows you to set screen parameters and disable the screen for cleaning

Setup button:
Allows you to configure Emme Core for operations

Cleaning the Touch Screen

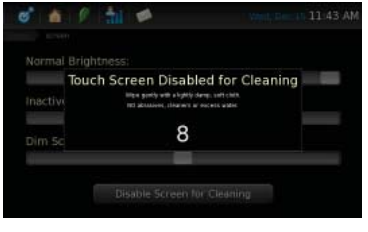
If you need to clean the touch screen, Emme Core provides an easy way to temporarily disable it. This will allow you to clean any dirt or fingerprints off the touch screen without making any unwanted changes to programming or settings.

WARNING: Do not use harsh cleaners on the screen. Do not spray liquid cleaners directly onto the screen.

1 Press the *screen* Button

You may need to scroll right to find it. The ***screen*** screen should appear.

2 Press Disable Screen for Cleaning



3 Clean the Screen

The screen will be disabled for 20 seconds. A countdown keeps track of the remaining time.

Using Emme Core

Emme Core is designed to be easy and intuitive to operate. Because the capabilities of Emme Core are greatly enhanced by internet connectivity, we strongly recommend connecting Emme Core to your WiFi network.

Emme Core Internet Setup and Connectivity

You can operate Emme Core from the display or you can use the secure Emme web portal. The web portal allows you to do everything that you could do if you were using the display, including:

- Program, configure and control Emme Core and the heating and cooling equipment it is connected to
- Control your Emme Core from anywhere you have internet access
- Receive important Alerts and Messages about your heating and cooling equipment

Connecting Emme Core to Your WiFi Network

Emme Core can connect with most wireless networks that use the WiFi standard. You must configure the Emme Core WiFi settings in order to access your wireless network and make your Emme Core accessible from the Emme web portal.

To configure your WiFi settings do the following:

1 Press the *setup* Button

The ***setup*** screen should appear. You may need to scroll to the right to see the ***setup*** option.

2 Press the *wifi* Button

The ***wifi*** screen should appear.

3 Press

Change Wireless Network

4 Select the Network

When the correct network is selected, press **Connect**

5 Enter the Password

When finished, press **ok**

Emme Core WiFi Specifications

- 802.11 B/G Wireless Networking
- WEP 64, WEP 128, WPA, WPA2 encryption methods
- Dynamic IP addressing

Accessing Emme Core From the Emme Web Portal

Before you can access Emme Core from the internet two requirements must be met:

1. Emme Core must be connected to your WiFi network.
2. Your email and password must be configured on the ***connect*** screen.

Connecting Emme Core to your Wifi network is covered in the previous section. We will now describe how to configure your email and password.

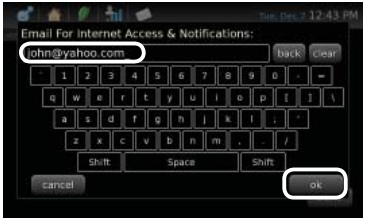
Configuring Your Email and Password

1 **Press the *connect* Button**

The ***connect*** screen should appear.

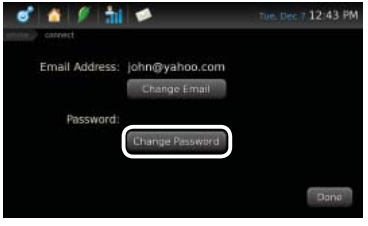
2 **Press**

Change Email



3 Enter Your Email Address

When finished, press **ok**



4 Press Change Password

5 Enter Your Password

When finished, press **ok**

5 Press done

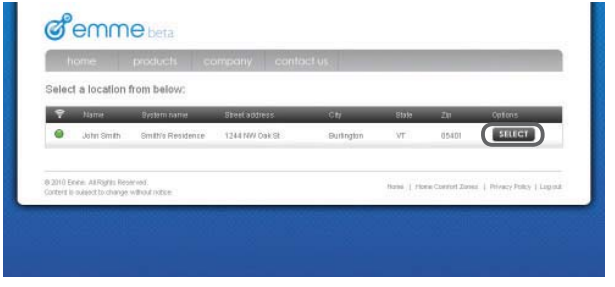
NOTE: The email address must be entered as a valid email address (example: yourname@company.com), is limited to the characters available on the display keyboard screen and is case sensitive. The password must be a minimum of 4 and maximum of 16 characters in length, all characters are accepted and are case sensitive.

Logging In to the Emme Web Portal

Open an internet browser on your computer (such as Firefox or Internet Explorer). Navigate to www.myemme.com.

1 Enter Your Email and Password

This is the same email and password you configured on the ***connect*** screen. When finished, press **Log In**



2 Press SELECT

If you have multiple Emme Core use the system name to identify the correct unit.

3 Explore Emme Core Online

Using Emme Core online is just like using it from your home or business. When finished click ***Log Out***.

System Setup

This section of the manual describes how to set up and configure Emme Core using the Display touch screen.

These are the two steps to programming Emme Core:

1. Installation Setup (should be completed at time of Emme Core installation by your HVAC contractor)
2. Configuring User Settings

Installation Setup

Installation setup typically consists of the following:

- HVAC Configuration (types of heating, cooling and additional equipment connected to the Emme Core Equipment Interface Panel)
- Network Connection; both to your wireless router/ WiFi network and to the Emme servers for internet access to your Emme Core
- Setting localized weather
- Setting local time and date by time zone
- Naming your Emme Core (required to access the Emme internet portal and helpful if you have multiple Emme Cores installed in the building)
- Set the dealer email so your HVAC contractor can monitor your system alerts (you do not have to enable this feature)

These steps should be completed by the HVAC professional who installed your Emme Core.

Configuring User Settings

Setting the Clock

By default, an automatic clock that updates using the WiFi connection is used. If network access is not available the clock can be set manually.

Configuring the Automatic Clock

When connected to the internet, Emme Core corrects time about every four hours to be accurate within one second.

1 Press the *setup* Button

The ***setup*** screen should appear.

1 Press the *clock* Button

The ***clock*** screen should appear.

2 Select the Correct Time Zone

Configuring the Manual Clock

When disconnected from the internet Emme Core may lose or gain one to two seconds per month depending upon conditions.

1 **Press the *setup* Button**

The *setup* screen should appear.

2 **Press the *clock* Button**

The *clock* screen should appear.

3 **Press**

Set Date & Time

4 **Press**

Set Date & Time Manually

5 **Set the Correct Time**

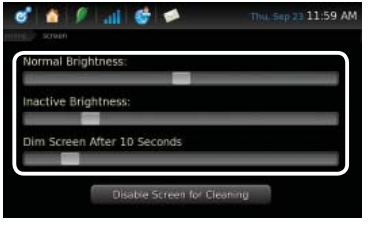
Use the selector to set the correct time. When your finished press **Set Now**.

Display Screen Settings

Screen options allows you to set **Normal Brightness**, **Inactive Brightness** and **Dim Screen After** to your preferences. Drag your finger along the slider to change settings.

1 Press the *screen* Button

You may need to scroll right to find it. The ***screen*** screen should appear.



2 Adjust the Sliders to Your Preference

When you're finished, press the *Status Bar*.

- **Normal Brightness:** Screen brightness during operation
- **Inactive Brightness:** Screen brightness when not being used
- **Dim Screen After:** Time delay between Normal Brightness and Inactive Brightness

Scheduling

Emme Core is designed to give you the ability to schedule the temperatures you want, when you want them; real schedules for real people!

Emme Core gives you the ability to schedule temperature transitions by:

- Time of day
- Day of the week

You can have up to four temperature transitions scheduled for each day and each day can have a unique schedule.

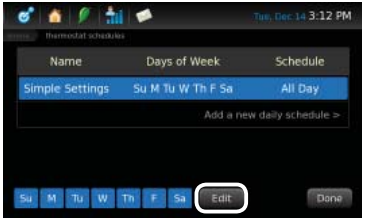
Simple Settings

By default all days are scheduled for Simple Settings. Simple Settings contains no transitions and allows you to set a heat to setting and a cool to setting.

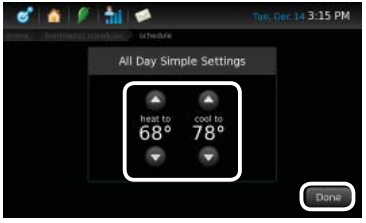
Changing Simple Settings

1 **Press the *schedule* Button**

The ***schedule*** screen will appear.



2 **Press the Edit button**



3 Use the Up and Down Arrows to Set the Temperature

When you are finished press **Done**.

Creating a Custom Schedule

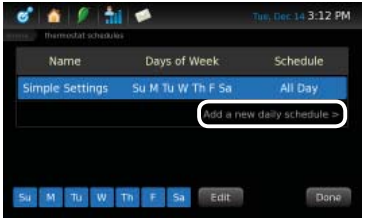
As an example we will create a weekday schedule using the following information:

Example Schedule

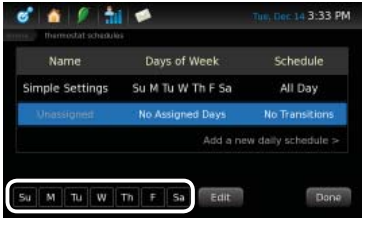
Wake at 7:00AM	heat to 74	cool to 80°
Leave at 8:30 AM	heat to 68°	cool to 86°
Return at 6:00 PM	heat to 74°	cool to 80°
Sleep at 11:00PM	heat to 68°	cool to 86°

1 Press the *schedule* Button

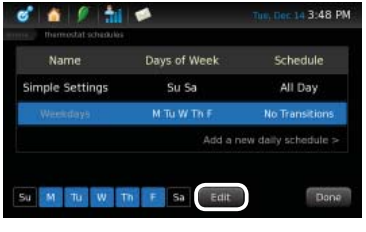
The ***schedule*** screen will appear.



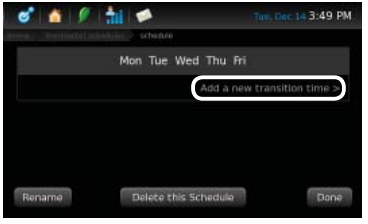
2 **Press the** *Add a new daily schedule >*



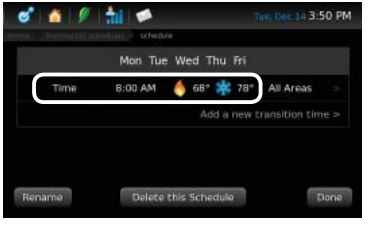
3 **Select the Days to Include in the Schedule**
In our example it is Monday through Friday.



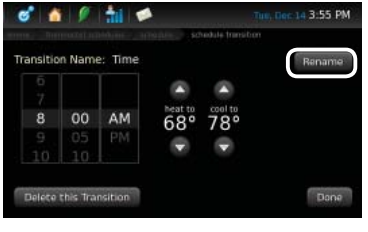
4 **Press the** **Edit** **Button**



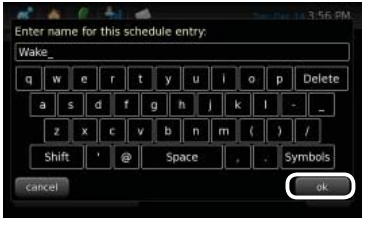
5 **Press the** *Add a new transition time >*



6 **Press on the transition**



7 **Press the** **Rename** **Button**



8 Type in the Name *Wake*

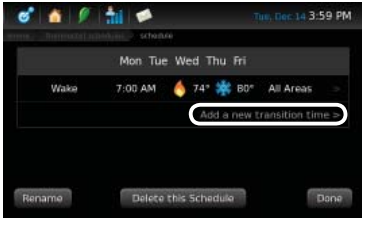
Press the **ok** button when you are finished.

9 Set the Time to *7:00AM*

Using the sliders select the correct time.

10 Set the *heat to* and *cool to* set points

Using the arrow buttons set the temperature. When you are finished press **Done**.



11 Press *Add a new transition time >*

Repeat steps 6 through 9 using the information in the example.

11 Your schedule is complete

When you are finished press **Done**.

Temperature Overrides

In some cases you may want to override a current temperature schedule. This is easy to do with Emme Core. In addition, Emme Core provides multiple options for setting how long an override lasts.

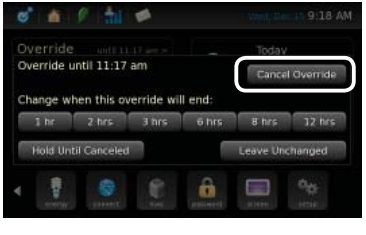
1 Use the Up and Down Arrows to Set the Temperature

2 Temporary Override is in Effect

The text *until 11:17 am* in this example indicates when the override will expire.

Canceling a Temporary Temperature Override

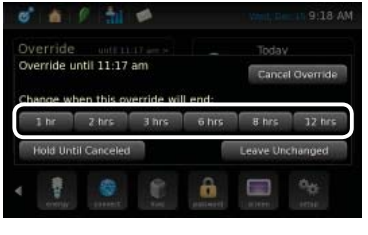
1 **Press the *"until"* text**
In this example it is *until 11:17 am* >.



2 **Press**
Cancel Override

Changing How Long a Temporary Temperature Override Lasts

1 **Press the *"until"* text**
In this example it is *until 11:17 am* >.



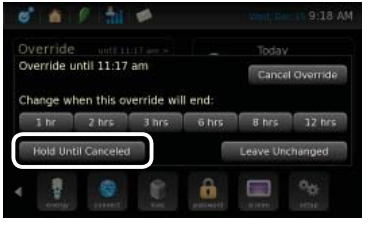
2 **Set How Long You Would Like the Override to last**
In this example we used 6 hrs.

3 The Time when the Override Expires will be updated on the Home Screen

Setting an Indefinite Override

1 Set your Override and Press the *"until"* text

In this example it is *until 11:17 am* >.



2 Press Hold Until Canceled

The override will be in effect until manually canceled.

3 When you Return to the Home Screen the Time Message Changes to *until canceled >*

Switching Between *heat to* and *cool to* Temperatures on the Home Screen When in Auto Mode

While Emme Core is running in auto mode it will automatically switch between air conditioning and heating depending on your set points. Yet on the Home Screen there is only one set point displayed. To switch between the heat to and cool to temperatures do the following:

1 Press the *heat to* **or** *cool to* **Set Point**

2 The Set Point Toggles Back and Forth

Home and Away Modes

Emme Core gives you the ability to place the building in Away mode. Away is an operating mode that places the building in a wider temperature range while unoccupied for an extended period of time. This allows you to save energy by conditioning the building less.

When Emme Core is in Home mode, the status bar will show the home icon. When Emme Core is in Away mode, the away icon will appear in the status bar and the schedule name in the Smart Thermostat panel will change to Away.

Home/Away Status Icons

	Home: indicates the building is currently in home mode.
	Away: indicates the building is in away mode.

Setting Away Mode

1 **Press the Away Button**

2 **You Are Now In Away Mode**

To cancel (return to Home mode) press the button with the house icon.

Scheduling an Away Return Time

1 **Press the Away Button**

2 **Press the Button with the Clock Icon**

3 Set the Date and Time

Use the selector to set your return time. Press **Ok** when you are finished.

4 Canceling a Scheduled Away

Press the button with the house icon to cancel (return to Home mode).

Changing Away Set Points

1 Put Emme Core in Away Mode

Press **Away**

2 Press on the Away Message Bar

2 Use the Up and Down Arrows to Change the Set Points.

Press **Ok** when you are finished.

HVAC Settings

Set parameters for equipment reminders, circulation fan control, and multistage control settings from the ***hvac*** button on the home screen.

1 Press the *hvac* Button

2 Press Equipment Reminders

3 Schedule the *Air Filter* Reminder

4 Schedule the *Humidifier Pad* Reminder

When you are finished press **Done**

5 Press Circulation Fan Control

6 Schedule the *Minimum Circulation per Day* Time

7 Enable Smart Circulation

Check if you want Smart Circulation enabled ☑. When you are finished press **Done**

8 Press
Multistage Control

9 Select the Stage Activation Criteria
When you are finished press
Done

10 When Your Finished Press **Done**

Password Protection

Emme Core gives you the ability to lock the display by using a password. Follow the steps below to set a password.

1 Press the *password* Button
You may need to scroll right to find it. The *password* screen should appear.

2 Press
Set a Display Password

3 Enter You're Password

Press **ok** when you are finished.

4 When You're Finished Press

Done

To disable the password press **Clear Display Password**.

The system will remain unlocked until the screen dims, after which it will need to be unlocked with the password to gain access.

NOTE: Write down your password and keep it somewhere for later reference. Once the system is password protected, access can only be gained by entering the password.

SmartSensors

SmartSensors are small, wireless, temperature sensors that can be linked to Emme Core. SmartSensors provide additional temperature information that improve Emme Core smart features such as SmartCirculation, SmartSetback, and SmartRecovery.

In addition you can use a wireless sensor as the primary temperature sensor for Emme Core. Instead of using the temperature sensor at the Display and Control Unit, Emme Core can use any SmartSensor that you designate. Not only will it display the temperature from the SmartSensor, but it will also use that temperature to make heating and cooling decisions. It's like moving the thermostat to where the SmartSensor is located.

Finally, you can schedule which SmartSensor to use as the primary temperature for each transition in your schedule. For instance, you can use the SmartSensor in your bedroom as the reference temperature in the morning, and the SmartSensor in the family room as the reference temperature in the evening.

Selecting a SmartSensor to use as the Primary Temperature

1 Press the *sensors* Button

2 Select the Sensor

Press the sensor you want to use as the primary temperature, the background will change to blue when selected.

3 **Press**

Make Selected Primary

Press **Done** when you are finished.

4 **Verify the Selection**

Above the temperature it should now display the SmartSensor name (in this case *Family Room*) .

Making the Display and Control Unit the Primary Temperature

1 **Press the *sensors* Button**

2 **Press**

Make Display Primary

Press **Done** when you are finished.

3 Verify the Selection

Above the temperature it should display *inside* .

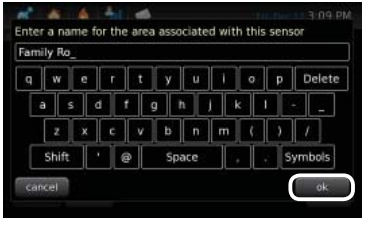
Renaming a SmartSensor

1 Press the *sensors* Button

2 Select the Sensor You Want to Rename

Press the sensor you want to rename, the background will change to blue when selected.

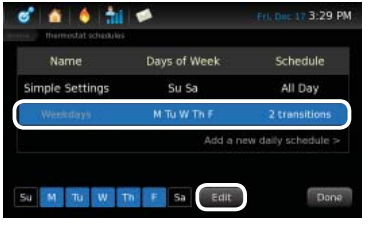
3 **Press**
Rename Selected Area



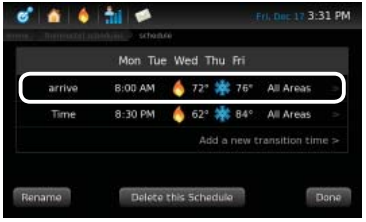
4 **Use the Keyboard to Rename the Sensor**
Press **ok** when you are finished.

Assigning a SmartSensor to a Temperature Schedule Transition

1 **Press the** *schedule* **Button**



2 **Select the Schedule**
Press **Edit**.



3 Press the Transition

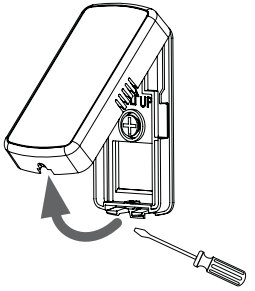
4 Select the Sensor

Press **Done** when you are finished.

5 Verify the Selection

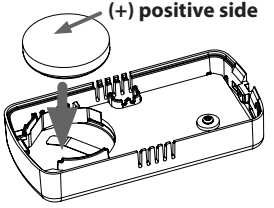
The transition should now display the SmartSensor name.

Replacing the SmartSensor Battery



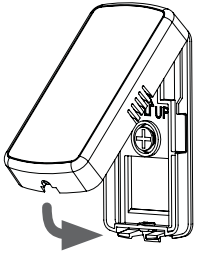
1 Remove the Back Plate

Pry the sensor apart slowly from the bottom. If needed, place a small flat-head screw driver in the slot at the bottom of the sensor and twist gently



2 Install the Battery

Remove the battery from the holder. Replace the battery with a CR2450.



3 Attach the Cover

When the back plate is mounted carefully attach the sensor cover to the back plate; attach the top of sensor first and gently push the bottom until it locks into place

Technical Support

If assistance is required, our Technical Support team is available to answer your questions:

Technical Support: 1-877-901-1932
Email Support: support@getEmme.com

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Emme Core User Guide