Somfy Sonesse 30 Power Over Ethernet Motor Web Interface User Guide

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PROGRAMMING GUIDE

POWER OVER ETHERNET (PoE) MOTOR WEB INTERFACE

somfy

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I. INTRODUCTION

Who is this Guide for?
This guide is aimed at providing support and guidance to installers for setting and programming individual Power over Ethernet (PoE) motors following installation of motors on projects.

What does this Guide contain?
The sections of this guide contain walkthroughs and methods of programming Power over Ethernet (PoE) motors using the onboard web interface.

This guide discusses the programming of motors with the onboard web interface. For questions or assistance please contact technical support: (800) 22-SOMFY (76639) technicalsupport_us@somfy.com

How should this Guide be used?
This guide is intended to be used as a reference manual.

II. OVERVIEW

The Power over Ethernet (PoE) Motor is a low-voltage powered distribution and network-connected motor that utilizes PoE technology power and control from industry-common network switches. This motor supports both Somfy SynergyTM API and CoAP Digital Building API protocols and is compatible with Power over Ethernet Network Switches IEEE 802.3at (PoE+) Type2 (30W) or higher. PoE motor system quantity is based on managing the number of devices on the subnet(s) available, unless specific network configurations are in place and managed by an IT Administrator.

REQUIREMENTS

SOFTWARE

- Requires access to a web browser from any device that can support a web browser operation
- Root certificate during software installation

HARDWARE Recommended minimum cabling and connectors:

- CAT-5e SF/UTP (Shielded & Foiled with Unshielded Twisted Pair) cable or higher Required for installations with high electromagnetic emissions and applications that can produce high electrostatic charging due to excessive friction(Ex: Dual-roll, zebra shades, and similar shading)
- TIA-568B RJ-45 Connectors – Shielded RJ45 female coupler (#9028957) included with the PoE motors
- Network Router DHCP Server
- Power over Ethernet Network Switch IEEE 802.3at (PoE+) Type2 (30W) or higher
- Sonesse® 30 PoE Motor #1241147

CONNECTIONS & INDICATORS

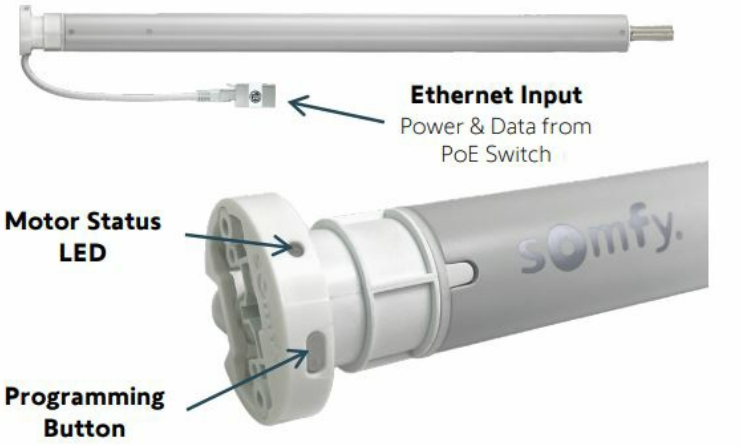
LED BEHAVIOR:

GREEN
SOLID ON (2 seconds) – POWER UP
BLINKING – BUS COMMUNICATION

AMBER
SOLID ON – MOTOR LIMITS NOT SET
BLINKS TWICE – PUSH IP ADDRESS TO THE NETWORK

RED
SOLID ON – OBSTACLE DETECTED
BLINKING – THERMAL PROTECTION
BLINKS TWICE – DRIVE IS OUT OF LIMITS
FAST BLINKING – NOT CONNECTED TO THE NETWORK, NO IP ADDRESS

OFF
LIMITS ARE SET, MOTOR AT IDLE



PROGRAMMING BUTTON FUNCTIONALITY	
TYPE OF PRESS	**OPERATION FROM PROGRAMMING BUTTON**
Short Press (< 2 seconds)	Sequential control of the motor UP/STOP/DOWN/STOP
Hold for first Jog	Send a DHCP request
Hold for second Jog	Force IP assignment method to DHCP
Hold for third Jog	Reset to factory mode

III. INSTALLATION

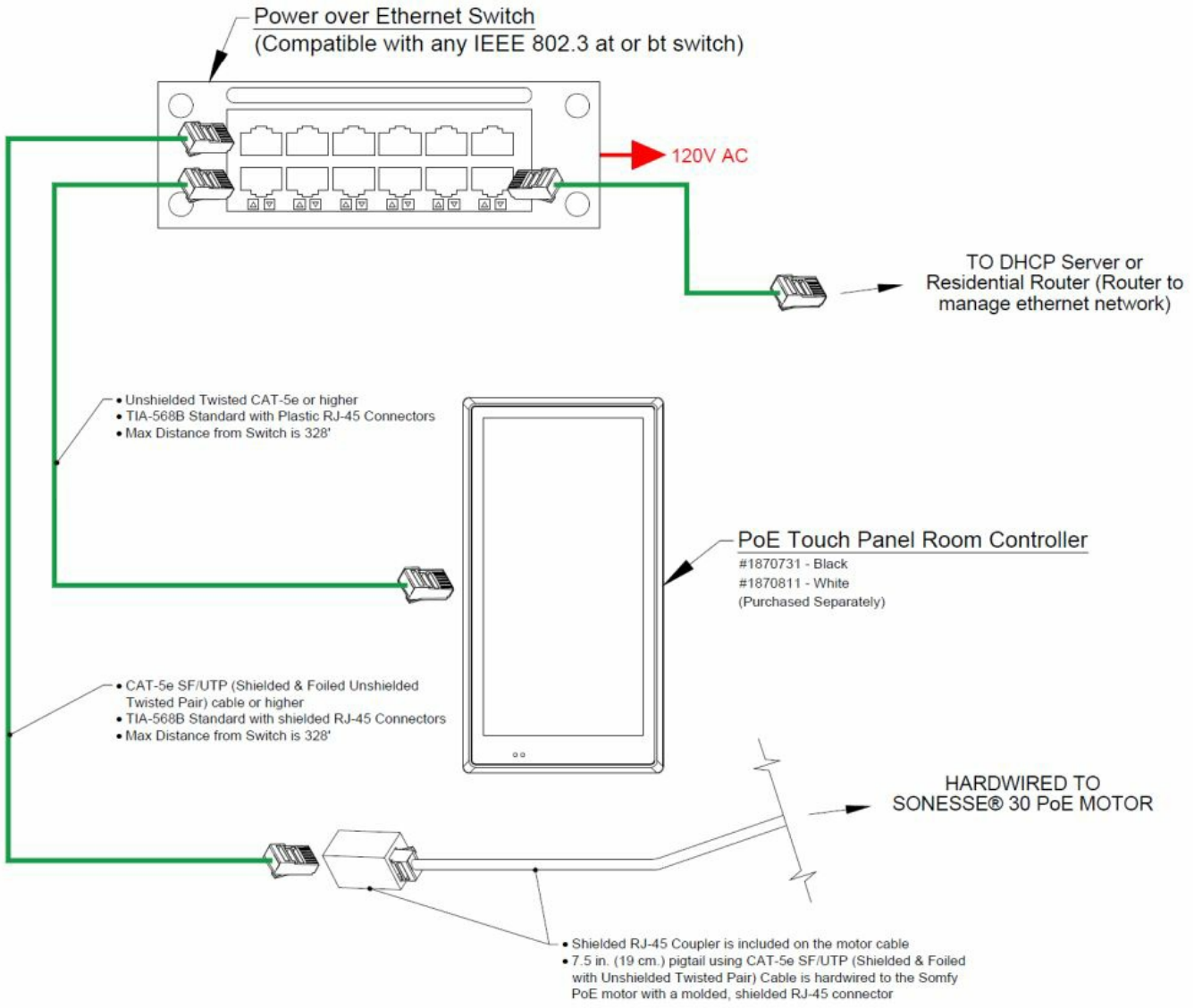
POWER

The PoE Motor receives power through the Power over Ethernet Switch. Cables routed through a metal wall must be protected and insulated by sleeving or sheathing.
In order to minimize electrostatic charging, end products should avoid:

- Fabric friction with other fabric like in some dual shade applications
- Hardware friction with fabric and other parts of the product such as fascia, cassette, and guide rails
- Excessive ESD caused by fabric friction in dual-roll and Zebra shade installations
-

POWER OVER ETHERNET(POE) STANDARDS				
IEEE EXTENSION	**TYPE**	**CLASS** (Power Source Equip.)	**POWER PER DEVICE (W)**	**SOMFY MOTORS**
IEEE 802.3at / PoE+	2	4	30	Sonesse® 30 PoE 1.5Nm

BASIC WIRING FOR OPERATION BASIC WIRING FOR OPERATION



USING MOTOR LABELS

Each Somfy PoE motor is supplied with four labels that include motor information to connect to motors. The label includes a four-digit PIN code for the motor and will be used to log in to the motor. These codes will be used for the life of the product.
DO NOT DISCARD THE MOTOR INFORMATION LABELS!
One of the motor information labels should remain on the body of the motor. The other three labels should be shipped in the packaging of the motorized product, or see below for recommended locations to use the labels.
Suggested locations for the Motor Information Labels:

- Finished motorized products: Examples:
  – Attached motor cable
  – Removeable shade hem bar
  – Motor cover

- Inside the valance of the motorized product
- Work order sheet used in project planning
- Product packaging used for shipping

Example above: On motor tube

Example above: Shade hem bar

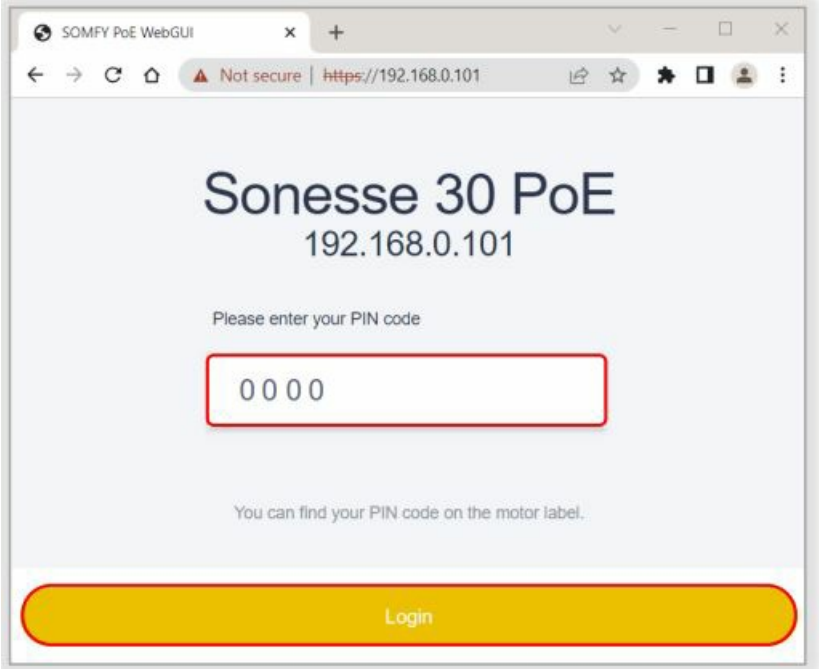

Example above: On motor cable

IMPORTANT NOTE:
Gathering and organizing motor PIN codes and motor information from the included motor labels is very important in navigating through the PoE motor graphical user interface.
If the PoE WebGUI and the motor become disconnected, the login screen will display to enter the PIN code to reconnect to the motor.

IV. COMMISSIONING

WEB INTERFACE LOGIN

Each PoE motor hosts a web interface for motor setting and configuration. Prior to configuring the motor, obtain the motor information label for the motor PIN code required for login. Refer to the MAC address to obtain the motor IP address from the network DHCP server. To configure or adjust PoE motors via the onboard web interface, follow the steps below:

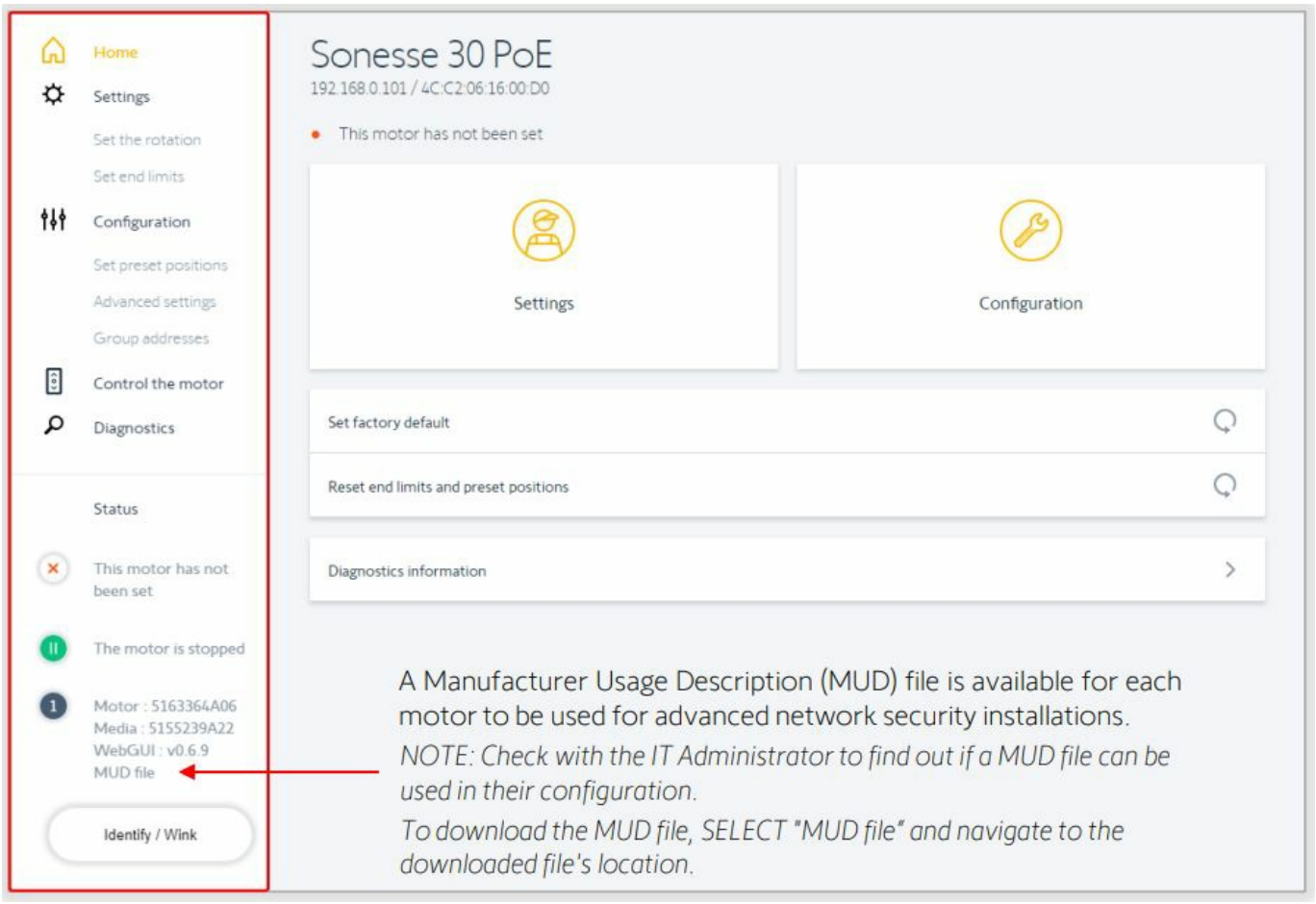


1. OPEN a web browser to NAVIGATE to the SOMFY PoE WebGUI
2. ENTER the PoE motor IP address or the Host name in the address bar NOTE: Motor info entered must start with https:// Example: https://192.168.0.101
3. At the “Your connection isn’t private” prompt, SELECT “Advanced,” then SELECT “Proceed to 192.168.0.101”

4. At the Login, ENTER the PoE motor PIN code, then SELECT “Login” to connect to the motor

MOTOR SETTINGS & CONFIGURATION

Starting with “Settings,” continue down the process tree to configure the motor SELECT “Home” to return to the Home screen or SELECT “Back” to return to a previous screen.



Settings – Set the Rotation

1. SELECT “Set the rotation”
2. PRESS & HOLD the UP or DOWN button to move the motor until the button is released

OR

PRESS & RELEASE the UP or DOWN button to move the motor in small increments

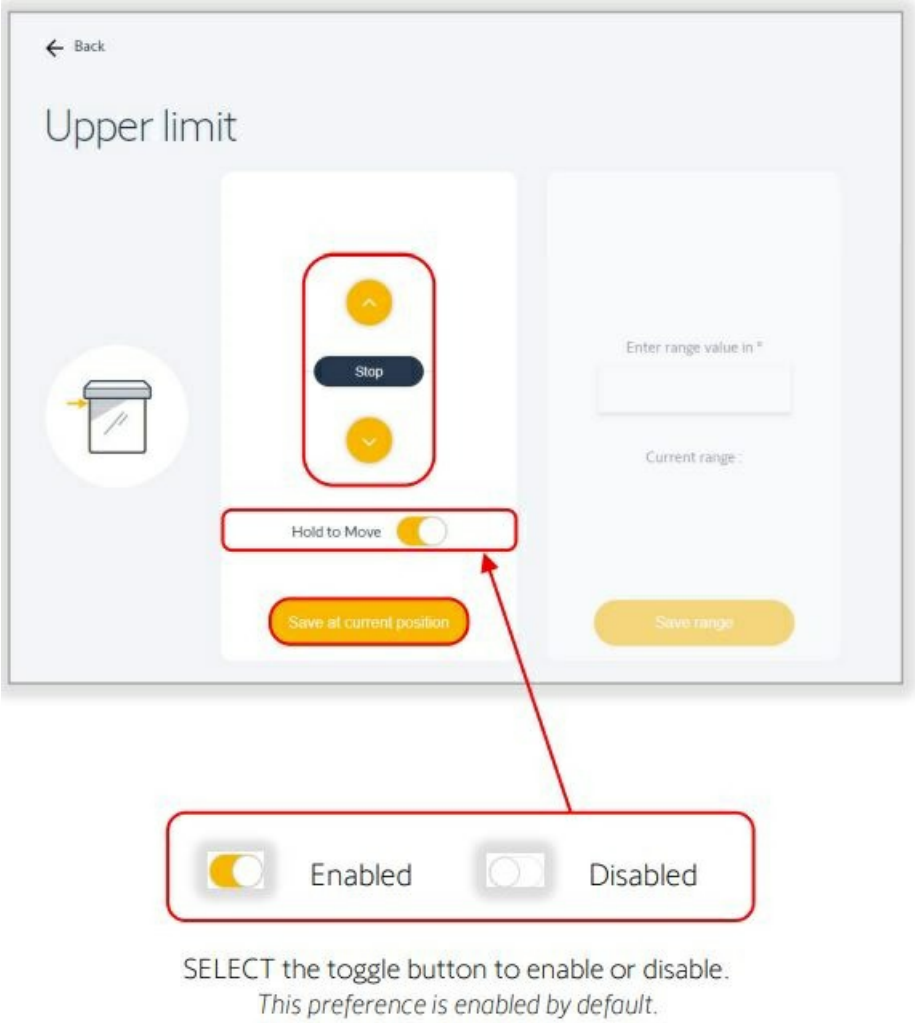
3. SELECT “Reverse” if the motor rotation direction needs to be reversed

   The motor will jog once to confirm the reverse direction.

   A jog is a brief up and down motion of the motor.

4. SELECT “Next” to continue

Settings – Set End Limits



1. SELECT which limit to set first, “Upper limit” or “Lower limit” Upper limit is set first in this example.
2. PRESS & HOLD the UP or DOWN button to move the motor in the direction of the upper limit

   OR

   DISABLE “Hold to Move”

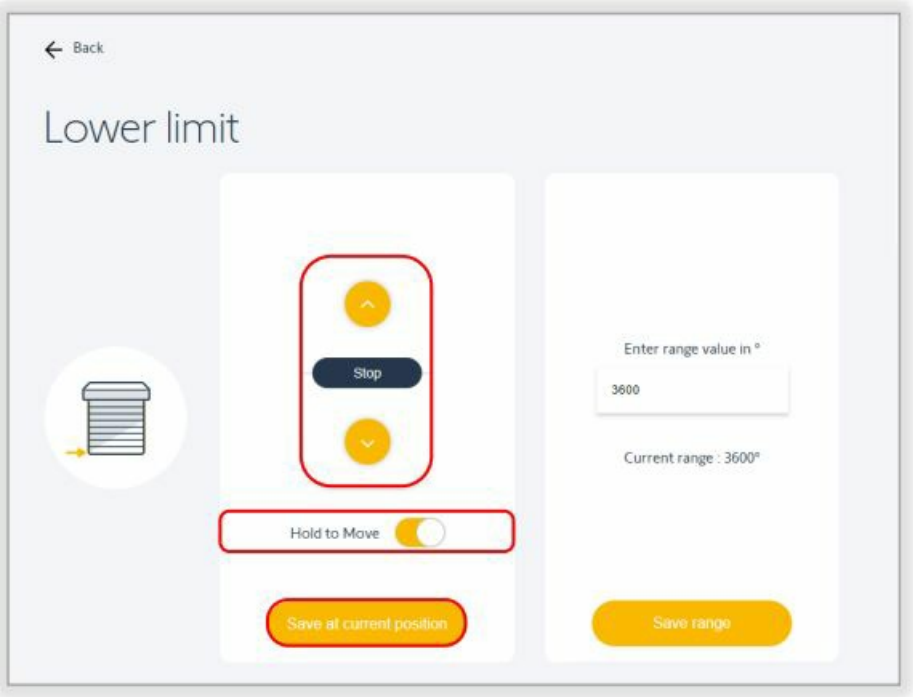
   With Hold to Move disabled, the motor will continue moving in the selected direction. Unlike Press & Hold, this mode requires pressing the Stop button to stop motor movements.

   The motor will not stop automatically when Hold to Move is disabled.

   Take caution when disabling Hold to Move to prevent damage to the end product.

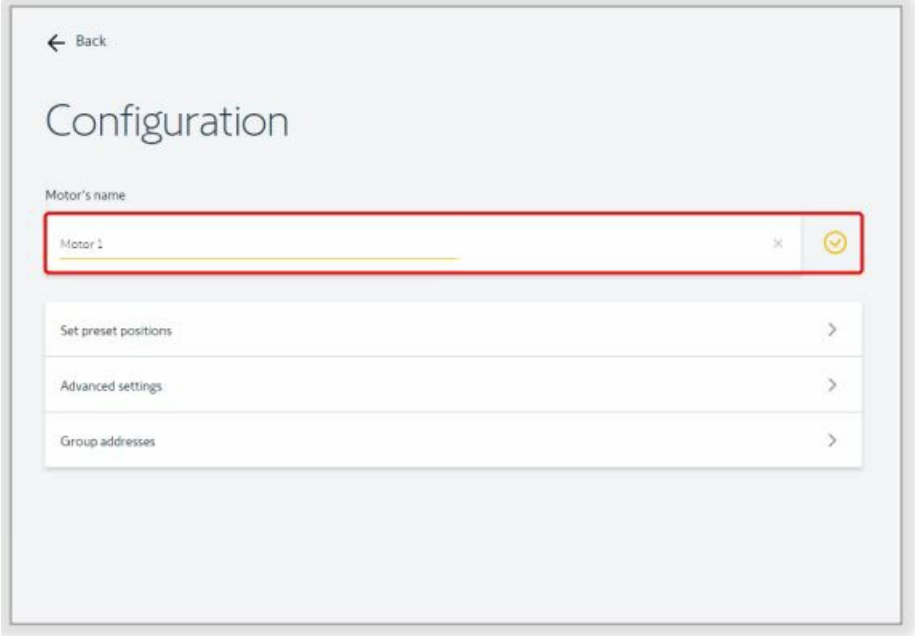
3. PRESS the UP or DOWN button to move the motor in the direction of the upper limit
4. PRESS the STOP button prior to the desired upper limit
5. ENABLE “Hold to Move,” then PRESS & RELEASE the UP or DOWN button to move the motor in small increments until the desired upper limit is reached

6. SELECT “Save at current position” to continue
   The motor will jog once to confirm the upper limit is set.
7. PRESS & HOLD the UP or DOWN button to move the motor in the direction of the lower limit OR DISABLE “Hold to Move”
8. PRESS the UP or DOWN button to move the motor in the direction of the lower limit



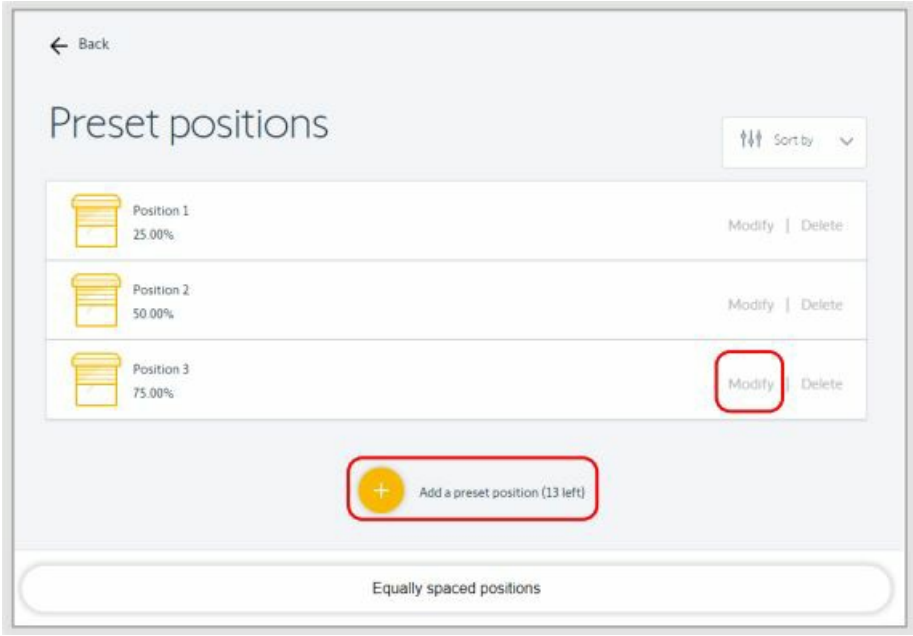
9. PRESS the STOP button prior to the desired lower limit
10. ENABLE “Hold to Move,” then PRESS & RELEASE the UP or DOWN button to move the motor in small increments until the desired lower limit is reached
11. SELECT “Save at current position” to continue The motor will jog once to confirm the lower limit is set. Once upper and lower limits are set, the Current range will display. Example: 3600°. This value represents the total range of movement between the upper and lower limits . If setting motor limits to a known range, after setting either the upper or lower limit, ENTER a range value, then SELECT “Save range.” The motor will jog once to confirm the range is set. Refer to the Control the Motor section of this guide to test operation of the motor.

Configuration Name the Motor



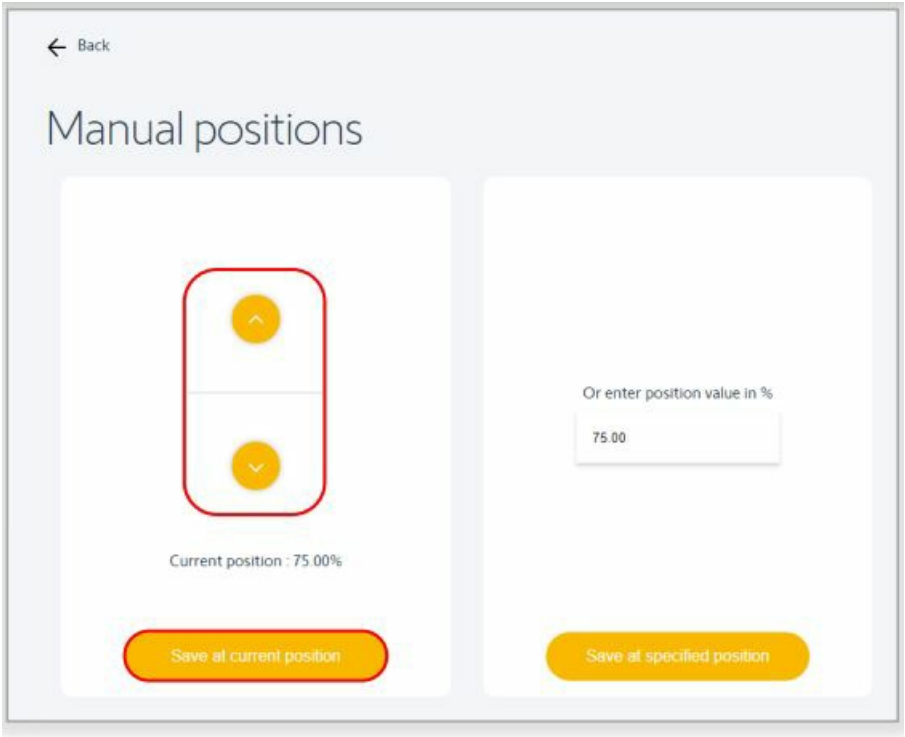
1. SELECT “Configuration”
2. SELECT the Motor’s name field
3. ENTER the motor name
   Example: Motor 1
4. SELECT the Check Mark icon to save the name

Configuration – Set Preset Positions



PoE motors have 16 available preset positions from 0 to 100%. To set preset positions, follow the steps below:

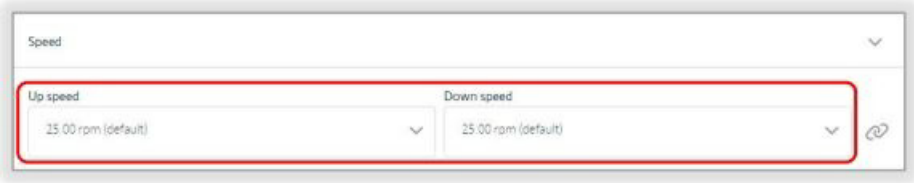
1. SELECT “Configuration”
2. SELECT “Set preset positions”
3. SELECT “Modify” to modify a saved position OR SELECT “Add a preset position,” to add a manual position
4. PRESS & HOLD the UP or DOWN button to move the motor to the desired position OR ENTER the position value in % Example: Position 3 = 75.00%
5. SELECT “Save at current/specified position” SELECT “Delete” to delete unwanted positions. SELECT the “Sort by” dropdown to display the positions by the position index or opening.

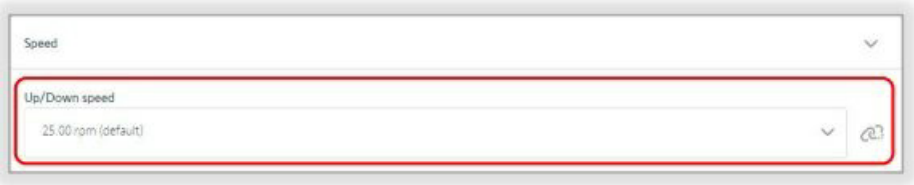


To record automatic positions, SELECT “Equally spaced positions.” If generating preset positions automatically, this will delete any positions that were set manually. SELECT “Yes, generate” to continue. PRESS the UP or DOWN arrows to select the quantity of positions. Example: 3 SELECT “Save.” Refer to the Control the Motor section of this guide to test operation of the motor.

Configuration – Advanced Settings – Speed

PoE motors have up and down speed settings that are adjustable by .25 rpm increments. To adjust the up and down speeds, follow the steps below:

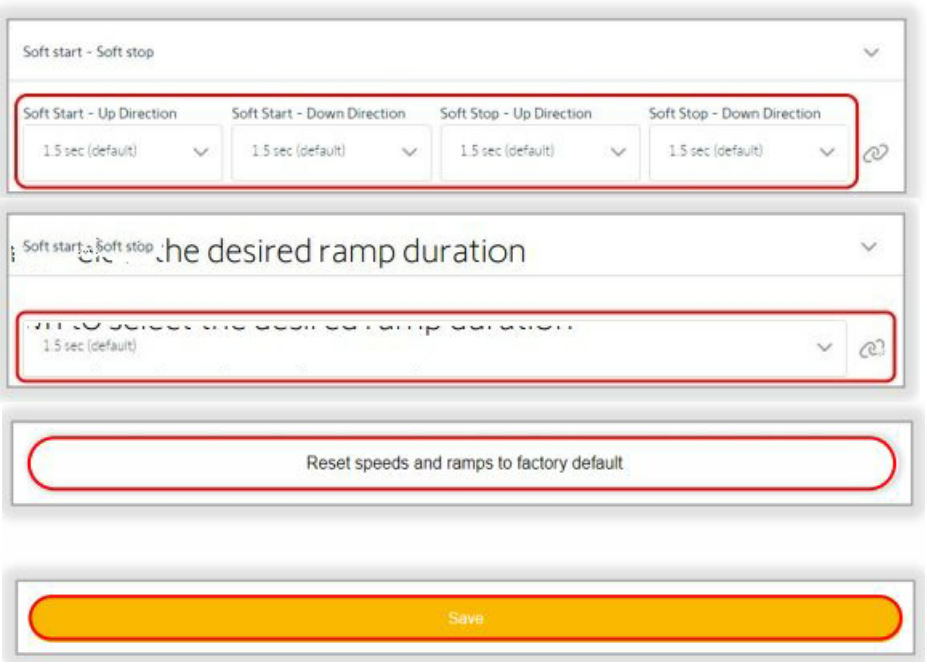




1. SELECT “Configuration”
2. SELECT “Advanced settings”
3. SELECT “Speed”
   Examples: 25.00 rpm (default)
4. SELECT the “Up speed” dropdown to select the desired running up speed SELECT the “Down speed” dropdown to select the desired running down speed
   OR SELECT the Link icon to set both up and down speeds to be the same SELECT the “Up/Down speed” dropdown to select the desired speed To reset the speed settings to default, SELECT the individual speeds labeled “default” in the dropdown or SELECT “Reset speeds and ramps to factory default” to reset all speed and soft start – soft stop settings.
5. SELECT “Save” to save all advanced settings Refer to the Control the Motor section of this guide to test operation of the motor.

Configuration – Advanced Settings – Soft start – Soft stop

PoE motors have soft start and soft stop settings that are adjustable by .1 second increments. To adjust the soft start and soft stop durations, follow the steps below:



1. SELECT “Configuration”
2. SELECT “Advanced settings”
3. SELECT “Soft start – Soft stop”
   Examples: 1.5 sec (default)
4. SELECT the “Soft Start – Up Direction” dropdown to select the desired ramp duration
5. SELECT the “Soft Start – Down Direction” dropdown to select the desired ramp duration
6. SELECT the “Soft Stop – Up Direction” dropdown to select the desired ramp duration
7. SELECT the “Soft Stop – Down Direction” dropdown to select the desired ramp duration
   OR SELECT the Link icon to ensure all soft start and soft stop ramp durations are the same SELECT the “Stop start – Soft stop” dropdown to select the desired ramp duration To reset the Soft start – Soft stop settings to default, SELECT the individual ramp durations labeled “default” in the dropdown or SELECT “Reset speeds and ramps to factory default” to reset all speed and soft start – soft stop settings.
8. SELECT “Save” to save all advanced settings Refer to the Control the Motor section of this guide to test operation of the motor.

Configuration – Advanced Settings – LED Feedback
PoE motors have a status LED indicating various motor conditions and feedback. The motor status LED is enabled by default. Refer to the Connections & Indicators section of this guide for a description of the LED behavior. To enable or disable the motor status LED, follow the steps below:

1. SELECT “Configuration”
2. SELECT “Advanced settings”
3. SELECT the toggle button to enable or disable the motor status LED
4. SELECT “Save” to save all advanced settings

Configuration – Advanced Settings – IP Address Assign Method

A DHCP Server is required to dynamically assign an IP address to the PoE motor. Coordinate with the Network Administrator for the appropriate network settings and requirements. A MAC-based address reservation or a static IP address configuration is required for third-party integrations. The MAC address is displayed on the PoE motor home screen. DHCP is enabled by default. To configure a static IP address, follow the steps below:

1. SELECT “Configuration”
2. SELECT “Advanced settings”
3. SELECT “IP address assign method”
4. SELECT the toggle button to disable DHCP
5. ENTER the appropriate network addresses
6. SELECT “Save” to save all advanced settings

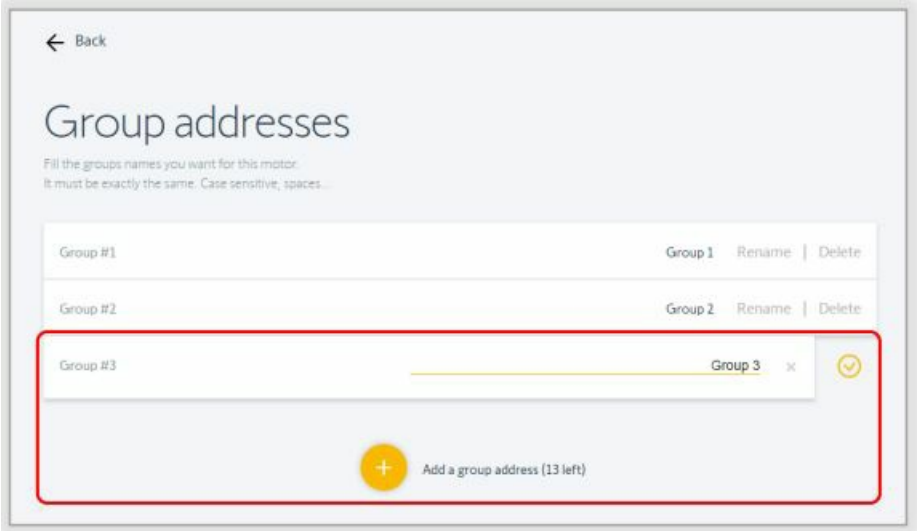
Configuration – Advanced Settings – Security key

PoE motors have a certificate-based AES-128 encryption security key used to secure UDP communication. To copy or paste a security key individually, follow the steps below:

1. SELECT “Configuration”
2. SELECT “Advanced settings”
3. SELECT the Copy icon to copy a security key of a connected motor to paste to another motor OR SELECT the Paste icon to paste a copied security key of another motor to the connected motor
4. SELECT “Save” to save all advanced settings

Configuration – Group Addresses

PoE motors can be assigned to 16 group addresses. Group addresses are friendly names associated to a Group #. If adding multiple motors to the same group, ensure the group names are identical for each motor. Group names are case sensitive and have a 24-character limit. To add or edit group addresses for an individual motor, follow the steps below:



1. SELECT “Configuration”
2. SELECT “Group addresses”
3. SELECT “Click here to name group” for Group #1

   OR

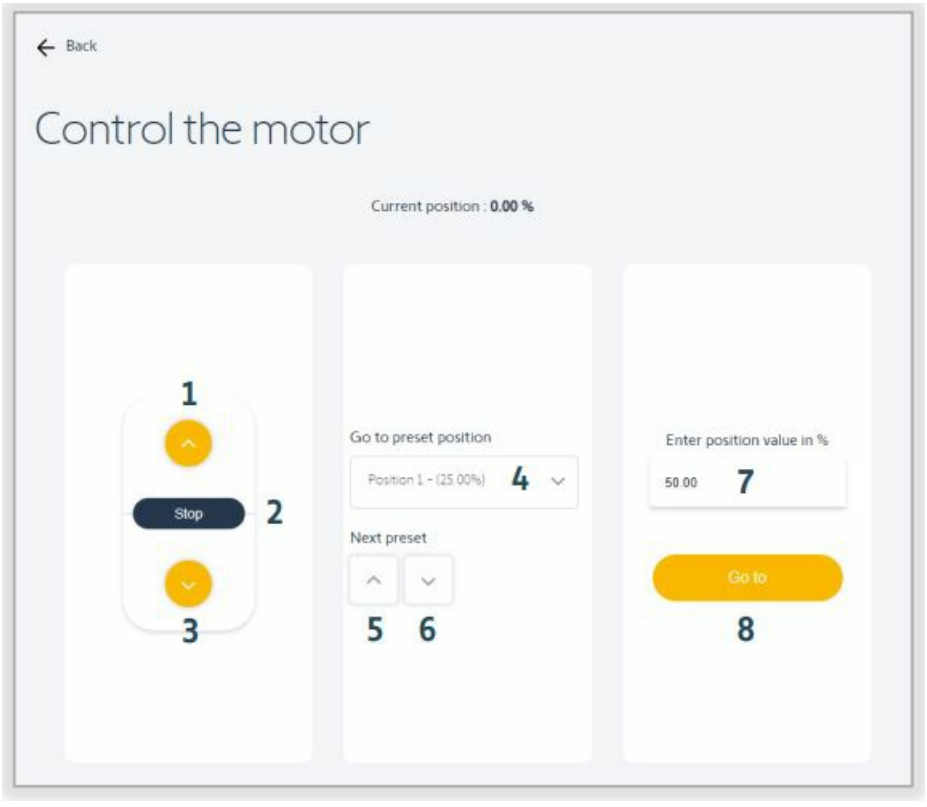
   SELECT “Add a group address” The next available Group # will be added.

   SELECT “Rename” to edit the group name Example: Group 3
4. SELECT the Check Mark icon to save the name SELECT “Delete” to delete a group address.

CONTROL THE MOTOR

Ensure the motor end limits and preset positions are set. Refer to the below descriptions for controlling a PoE motor.

SELECT “Control the motor”

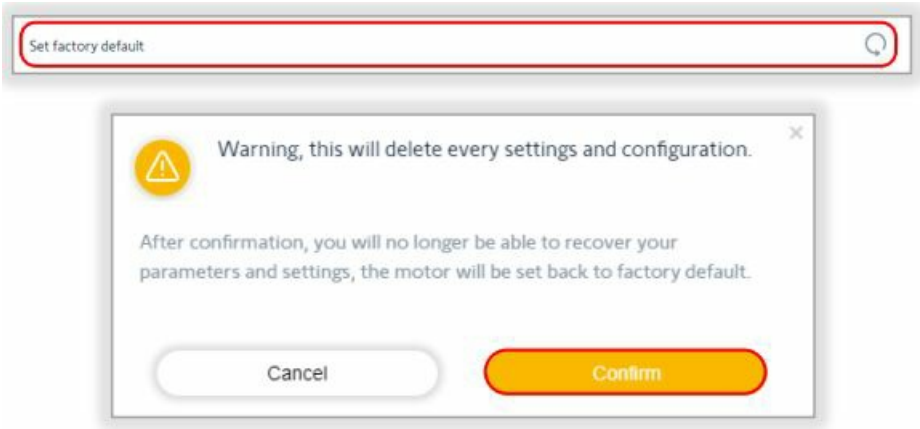


1. Up: Moves the motor to the upper limit

2. Stop: Stops the motor if moving
3. Down: Moves the motor to the lower limit
4. Go to preset position (1-16): Moves the motor to the desired preset % per the selected Position # in the dropdown
5. Next preset up: Moves the motor to the next preset position up
6. Next preset down: Moves the motor to the next preset position down
7. Enter position value in % (0-100): Moves the motor to the percent value entered (0 = Open, 100 = Closed)
8. Go to: Moves the motor to the above position value

APPENDIX

[APPENDIX A] SET FACTORY DEFAULT

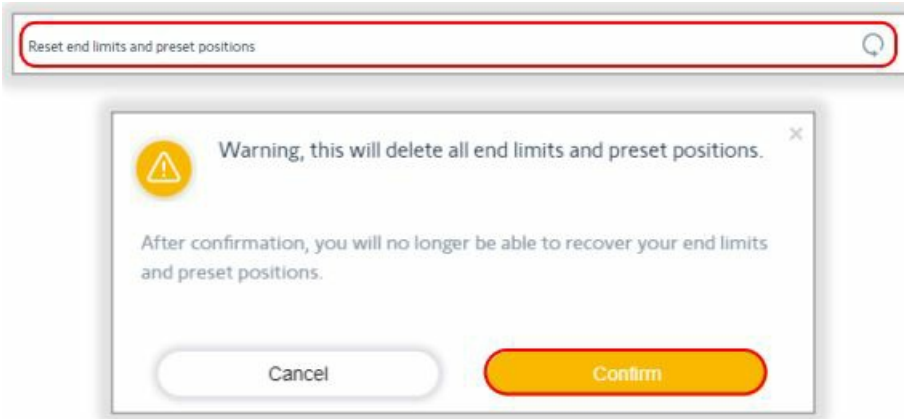


The Set factory default function will remove all saved motor parameters and settings, as well as remove the replicated security key. To factory default a motor, follow the steps below:

1. SELECT “Home” when connected to a motor
2. SELECT “Set factory default” Warning, this will delete the motor settings and configuration.
3. SELECT “Confirm” at the warning prompt The motor will jog once to confirm the factory default is complete. The motor status will display: “This motor has not been set”

[APPENDIX B] RESET END LIMITS AND PRESET POSITIONS

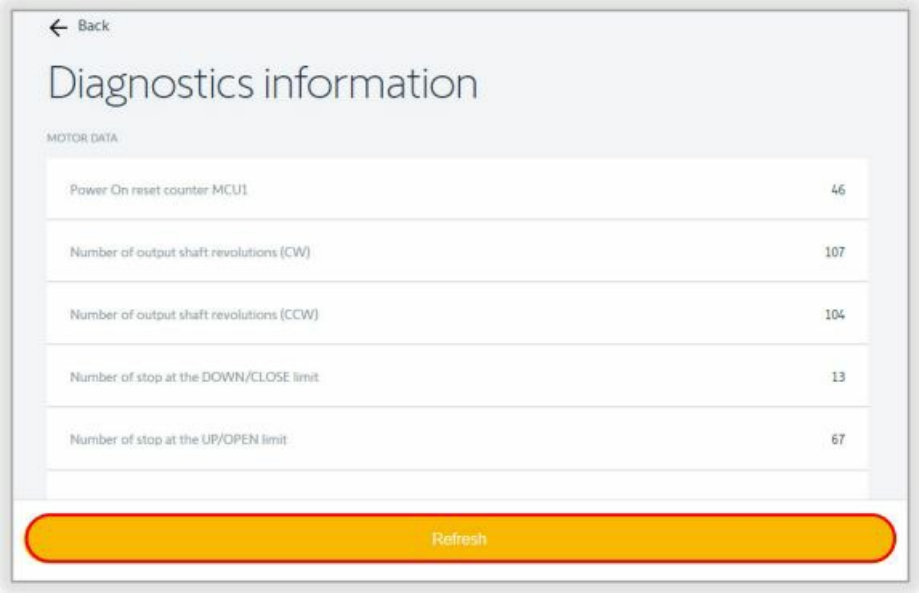
The Reset end limits and preset positions function will remove the motor end limits and saved preset positions. All other motor parameters and settings will remain. To reset the motor end limits and preset positions, follow the steps below:



1. SELECT “Home” when connected to a motor
2. SELECT “Reset end limits and preset positions” Warning, this will delete the motor end limits and preset positions.
3. SELECT “Confirm” at the warning prompt The motor status will display: “This motor has not been set”

[APPENDIX C] DIAGNOSTICS INFORMATION

The Diagnostics information page only displays the motor data and network data. There are no motor parameters or settings to modify. This information is useful to identify specific motor or network activity. To view the Diagnostics information, follow the steps below:



1. SELECT “Home” when connected to a motor
2. SELECT “Diagnostics information” SELECT “Refresh” to update the motor data.

FOR QUESTIONS OR ASSISTANCE PLEASE CONTACT TECHNICAL SUPPORT: (800) 22-SOMFY (76639) technicalsupport_us@somfy.com

Make the move

About Somfy® For over 50 years, Somfy has been pioneering innovative motorization and automated solutions for window coverings and exterior shading products. With comfort, ease of use, security, and sustainability in mind, our seamless and connected solutions are designed to help people make the move to living spaces impactful for humans and with a reduced
impact on nature.

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Documents / Resources

	**Somfy Sonesse 30 Power Over Ethernet Motor Web Interface** [pdf] User Guide Sonesse 30 Power Over Ethernet Motor Web Interface, Sonesse 30, Power Over Ethernet Motor Web Interface, Over Ethernet Motor Web Interface, Ethernet Motor Web Interface, Motor Web Interface, Web Interface

References

- **Home page new - ca**
- **Home page new - ca**
- **Home page - us**
- **Home page - us**