SOMFY DIGITAL NETWORK™ (SDN)
RS485 MODULE for DRAPERY MOTORS

somfy

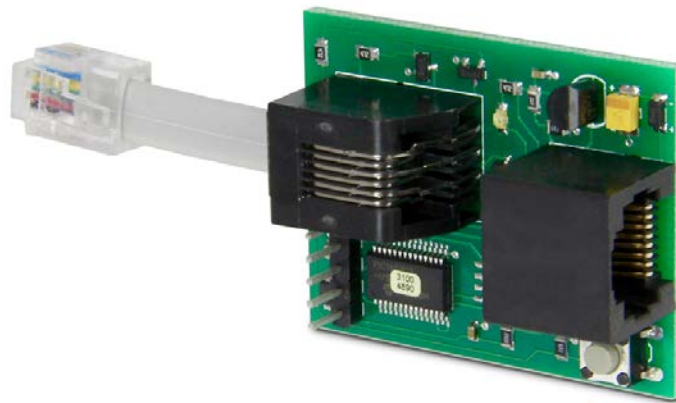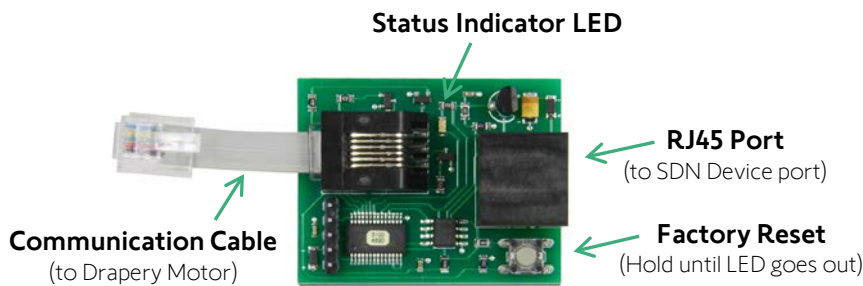## TABLE OF CONTENTS

I. OVERVIEW

The RS485 Module for Drapery Motors enables control of Irismo™ and Glydea® Motors through RS485 commands within the Somfy Digital Network™ (SDN) System. Not to be used with Glydea® ULTRA motors.

COMPATIBILTY

- Modules are compatible with the following Irismo™ Mini DC and Glydea® drapery motors: Irismo 35 DCT #1003003, Irismo 35 RTS #1003004, Glydea 35e DCT #1002465, Glydea 35e RTS #1001615, Glydea 35e RS485 #1002109, Glydea 60e DCT #1002545, Glydea 60e RTS #1001617, Glydea 60e RS485 #1002108.

CONNECTIONS & LED

- The RS485 Module for Drapery Motors is connected to the RJ12 port on the bottom of the Drapery Motor.

Status Indicator LED

Communication Cable
(to Drapery Motor)

RJ45 Port
(to SDN Device port)

Factory Reset
(Hold until LED goes out)

LED BEHAVIOR:

FLASHING RED:
SDN data transfer

ON for ONE SECOND:
When Reset Button is pressed, the card has been reset

OFF:
Normal operation, with no data being transferred (when connected to power)

Power (24V DC)

DC Drapery Adaptor for SDN & PoE Gateway

Data (CAT-5e)

Irismo™ Motor Head

RJ12 Port
(for RS485 Module)

Module Enclosure for Irismo #9021132 purchased separately.

Power Plug
120V AC

SDN Bus
CAT-5e or higher

Glydea® Motor Head

RJ12 Port
(for RS485 Module)

II. WIRING

NETWORK	SDN BUS	DATA
Standard CAT-5e or higher	Standard CAT-5e or higher	6 Cond. 26AWG

STANDARD SDN

To 120V AC

TO IP NETWORK

*TO MOTORS

Bus Power Supply
#1822440

Modular TEE Junction
(6x6) F / (6x6) F / (6x6) F
L-com Item #TDS1039-6C

TO THIRD PARTY

*TO MOTOR

Data Hub
#1870262

Somfy Connect
UAI Plus
1870272

Somfy Connect UAI Plus
#1870272

RS485 Module for Drapery Motors
#1811129

SINGLE MOTOR

TO RS232 NETWORK

OPTIONAL

TANDEM MOTORS

*TO IRISMO 35 (MINI DC) DCT, IRISMO 35 (MINI DC) RTS, GLYDEA 35e RS485, GLYDEA 60e RS485, NOT FOR GLYDEA ULTRA

POWER OVER ETHERNET

To 120V AC

Power over Ethernet Switch
(Must support LLDP & be a Cisco UPoE compliant device)

Irismo Enclosure Kit
#1870282

Unshielded Twisted CAT-5e or higher
(PowerWise 1G 4PPoE Indoor/Outdoor Cable recommended)
TIA-568B Standard with Plastic RJ-45 Connectors
Max Distance from Switch to PoE Gateway is 328'

DC Drapery Adaptor for SDN & PoE Gateway
#9025012 (Included with Enclosure Kit)

PoE Gateway to Motor Adaptor
#9025010

*TO MOTOR

SDN Power over Ethernet Gateway
#1860326

SDN Low-voltage Motor Cable
#9020126 (Non-Plenum)
#9020127 (Plenum)

RS485 Module for Drapery
#1811129 (Included with Enclosure Kit)

*IRISMO 35 (MINI DC) DCT, IRISMO 35 (MINI DC) RTS

III. FEATURES

PERCENTAGES

- 0% moves Motor to the open position. 1-100% moves the Motor to the closed position.

FEEDBACK

- Positions will be 0% or 0 Pulse Counts for open and 100% or 1000 Pulse Counts for closed. Stop commands will report 50% or 500 Pulse counts regardless of Motor position.

- The RS485 Module for Drapery Motors support feedback based on expected position and will NOT report if a drapery has been moved manually by hand (i.e.: Open, Closed or 50% are the only reported feedback per the last command received). This should not be relied on to give accurate real-time feedback.
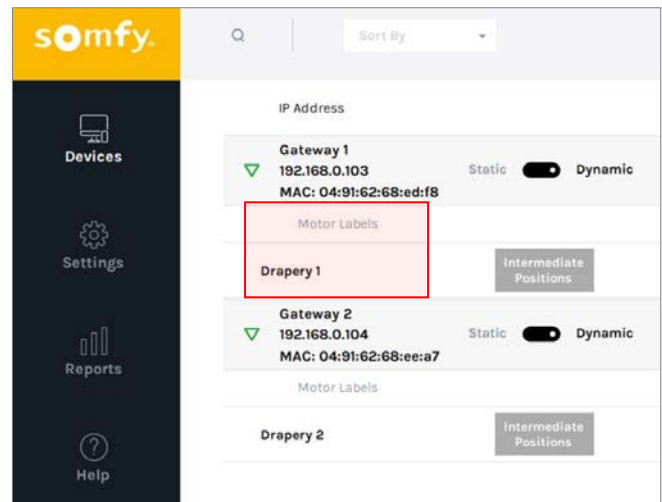
MOTOR LABEL & LOCK POSITION

- Each RS485 Module for Drapery Motors can be given an individual label and temporary lock position.
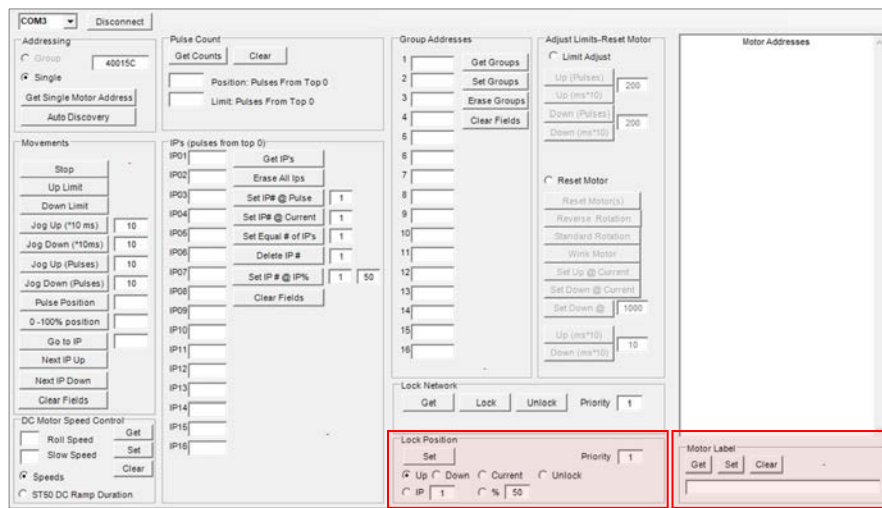
SDN CONFIGURATION
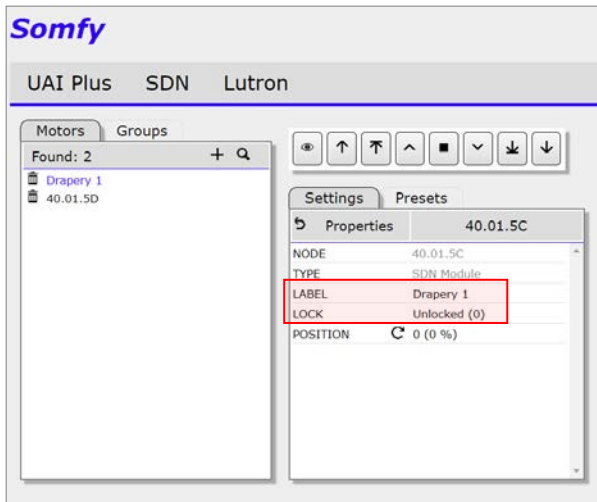
UAI PLUS CONFIGURATION
* Only displays lock status & position

POE CONFIGURATION
* Lock status & position unavailable

IV. SDN CONFIGURATION

SOFTWARE

- Download the Somfy Digital Network™ (SDN) Motor Configuration Software *Install as Administrator*
  For complete installation instruction, setup, and features of the configuration software refer to the
  SDN Motor Configuration Software Programming Guide included in the downloaded zip folder.

HARDWARE

- Compatible Drapery Motor
- SDN RS485 Module for Drapery Motors #1811129
- USB-to-RS485 Adaptor for SDN #9015260
- CAT-5e or higher patch cable terminated TIA 568B — Suitable length to connect Laptop to SDN bus line
- Windows 7 PC or higher

Control an RS485 Module for Drapery Motor by Node ID:

1) Enter a single Motor ID in the blank field under the Addressing section.
2) Select the Single radio button to communicate with that single Motor.
3) Use the control buttons in the Movements section to move the Motor.

Control an RS485 Module for Drapery Motor by Group Addresses:

1) Use slots 1-6 under the Group Addresses section to add the RS485 Module for Drapery Motor to a Group:
   - Create a new Group Address: enter 6 hexadecimal (0-9 and/or A-F) characters in one of the slots, then click the Set Groups button.
   - Repeat using the same Group Address for each RS485 Module that belongs in the same Group.
     Note: The RS485 Module for Draper Motors is limited to 6 Groups per Module. All other RS485 Motors can be programmed with up to 16 SDN group addresses per Motor.
2) Type the new Group Address in the blank field under the Addressing section.
3) Select the Group radio button to communicate with all Motors in that Group.
4) Use the control buttons in the Movements section to move the Group of motors.
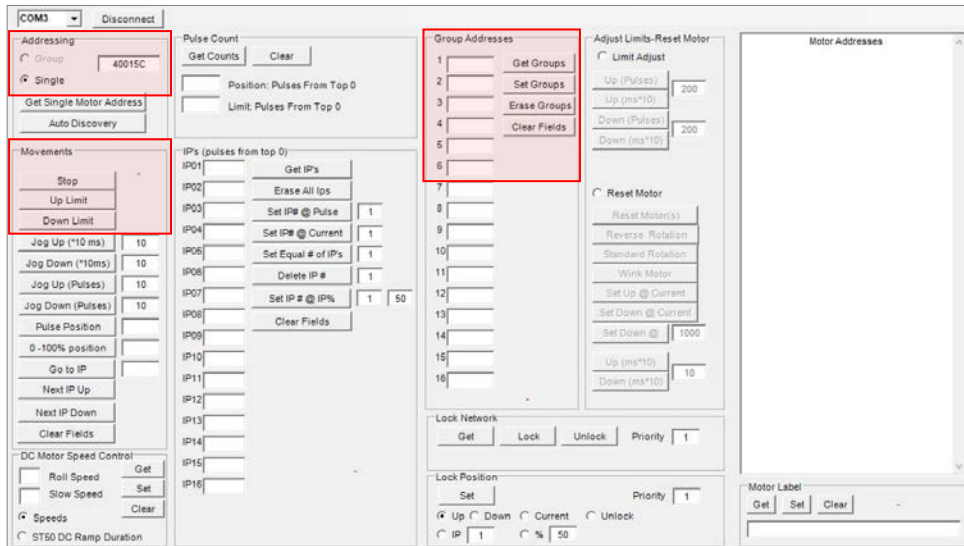
IV. UAI PLUS CONFIGURATION

SOFTWARE

- Commissioning is performed through an internal web GUI *Only access with Google Chrome 59.0.3071 or higher
  For complete installation instruction, setup, and features of the Somfy Connect™ UAI Plus refer to the
  Somfy Connect UAI Plus Programming Guide

HARDWARE

- Compatible Drapery Motor
- SDN RS485 Module for Drapery Motors #1811129
- Somfy Connect UAI Plus #1870272
- CAT-5e or higher patch cable terminated TIA 568B — Suitable length to connect Laptop to SDN bus line
- Windows 7 PC or higher with Google Chrome 59.0.3071 or higher

CONTROL

Control an RS485 Module for Drapery Motor by Node ID:

1) Go to the SDN Commissioning page, then click the Magnifying Glass to search for all SDN Motors and RS485 Modules for Drapery Motors on the bus line; this will list all discovered Motors.
2) Select a Motor, then use the directional buttons to move the Motor.

Control an RS485 Module for Drapery Motor by Group:

1) Create new Groups, then add the found Motors to the Groups accordingly.
2) Select a Group, then use the directional buttons to move all motors in the Group.
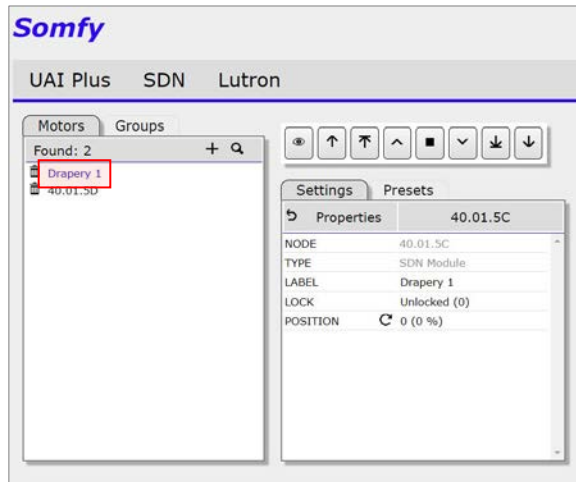
BY NODE ID
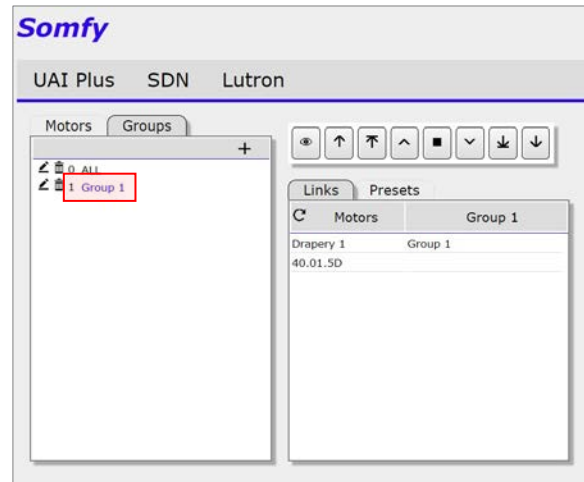
BY GROUP

V. POE CONFIGURATION

<div style="background:green">**R E Q U I R E M E N T S**</div>

SOFTWARE

- Download the SDN PoE Gateway Configuration Software **Install as Administrator*
  For complete installation instruction, setup, and features of the configuration software refer to the
  SDN Power over Ethernet Gateway Programming Guide

HARDWARE

- Compatible Drapery Motor
- SDN RS485 Module for Drapery Motors #1811129
- SDN Power over Ethernet Gateway #1860326
- PoE Gateway Kit (Gateway and Motor Adaptor Combo) #1870445
- Gateway to Motor Adaptor:
  - PoE Gateway to Motor Adaptor #9025010 *or* PoE Gateway to Motor & Keypad Adaptor #9025011
- Power over Ethernet Switch (Must support LLDP & be a Cisco UPoE compliant device)
- PoE Touch Panel Room Controller #1870811 White, #1870731 Black
- SDN Low-voltage Motor Cable Non-Plenum #9020126, Plenum #9020127
- Non-Printed Female Weidmuller Connector #9025113
- DC Drapery Adaptor for SDN & POE Gateway #9025012
- animeo® IP DecoFlex Digital Keypad 8-Button #1811289 White, #1811329 Black, #1811333 Ivory
- Windows 7 PC or higher with ethernet port **firewall must be disabled while using*

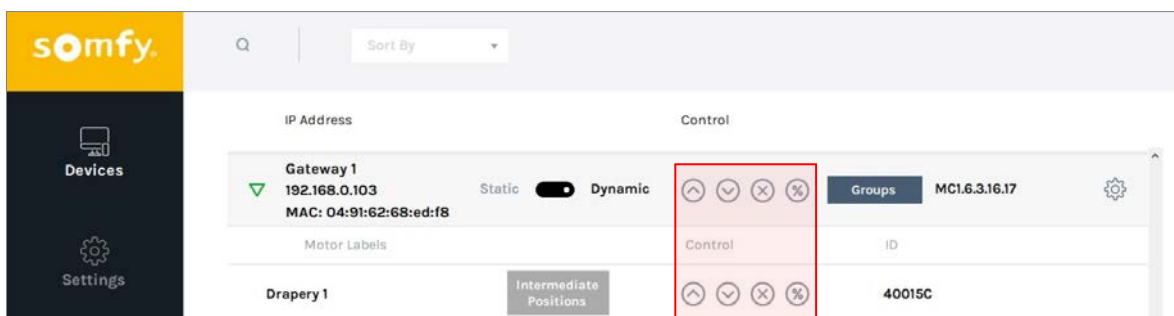<div style="background:green">**C O N T R O L**</div>

*.Refer to the Programming Guide to ensure the PoE Switch is configured correctly before continuing

Control an RS485 Module for Drapery Motor by Node ID:

1) Click the Magnifying Glass at the top of the Devices page to discover all PoE Gateways on the network.
   Note: PoE Gateways with Motors connected will appear first on the list, followed by any found Gateways without Motors
2) Click the Gateway to show the SDN RS485 Module for Drapery Motors connected to that Gateway.
3) Use the directional buttons or an animeo IP DecoFlex Digital Keypad connected to the Gateway to move the Motor.

Control an RS485 Module for Drapery Motor by Group:

1) Use a PoE Touch Panel Room Controller to move multiple PoE Gateways with motors simultaneously.
   Note: Each PoE Gateway will only support one Irismo Drapery Motor with the RS485 Module for Drapery Motors; the Motor Daisy Chain Cable can not be used with Drapery Motors.

SOMFY® is the leading global manufacturer of strong, quiet motors with electronic and app controls for interior window coverings and exterior solar protections. Over 270 million users worldwide enjoy the more than 170 million motors produced by Somfy. During the past 50 years, Somfy engineers have designed products for both the commercial and residential markets to motorize window coverings such as interior shades, wood blinds, draperies, awnings, rolling shutters, exterior solar screens and projection screens. Somfy motorization systems are easily integrated with security, HVAC and lighting systems providing total home or building automation.

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

SOMFY SYSTEMS INC
SOMFY NORTH AMERICAN HEADQUARTERS
121 Herrod Blvd.
Dayton, NJ 08810
P: (609) 395-1300
F: (609) 395-1776

FLORIDA
1200 SW 35th Ave.
Boynton Beach, FL 33426
F: (561) 995-7502

CALIFORNIA
15301 Barranca Parkway
Irvine, CA 92618-2201
F: (949) 727-3775

SOMFY ULC
SOMFY Canada Division
5178 Everest Drive
Mississauga, Ontario L4W2R4
P: (905) 564-6446
F: (905) 238-1491

www.somfypro.com

A BRAND OF **SOMFY** GROUP