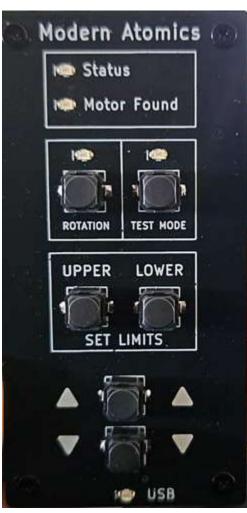
# Product Overview:





Limitator LM-1 Handheld Unit

A Motor Tap Breakout Interface is also included to allow quick 485 BUS interconnection at the shade. Handheld unit receives power and 485 communications only flow between the Motor Port and the Handheld Port.

Limitator™ is a simple to use handheld limit setting tool used to setup limits and adjust rotation for shades using Somfy® SDN® motors.

The <u>ONLY</u> limit setting tool made for Somfy® SDN® motors which has collision avoidance.

It can also be used as an interface for laptops or mobile devices equipped with USB ports to connect to any RS-485 or RS-232 serial bus. This enables software applications such as the Modern Atomics Configurator and Somfy® tools such as SET Pro, SDN® Motor Configuration tool, and SDN® Keypad Configuration tool to have access to the RS-485 bus and discover and configure 485 devices such as motors, keypads, RF Transceivers and RF Receivers.

This is also the <u>ONLY</u> USB to 485 interface on the market with collision avoidance.

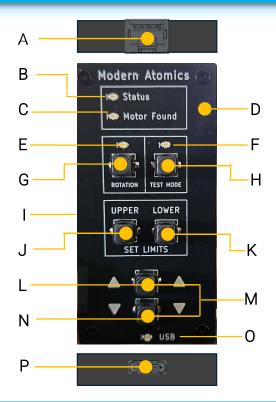


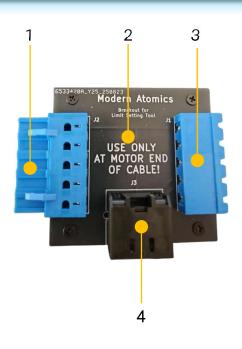
Limitator LM-1 Motor Tap Break out board.



### **LIMITATOR LM-1**

## **USB to RS-232/485**



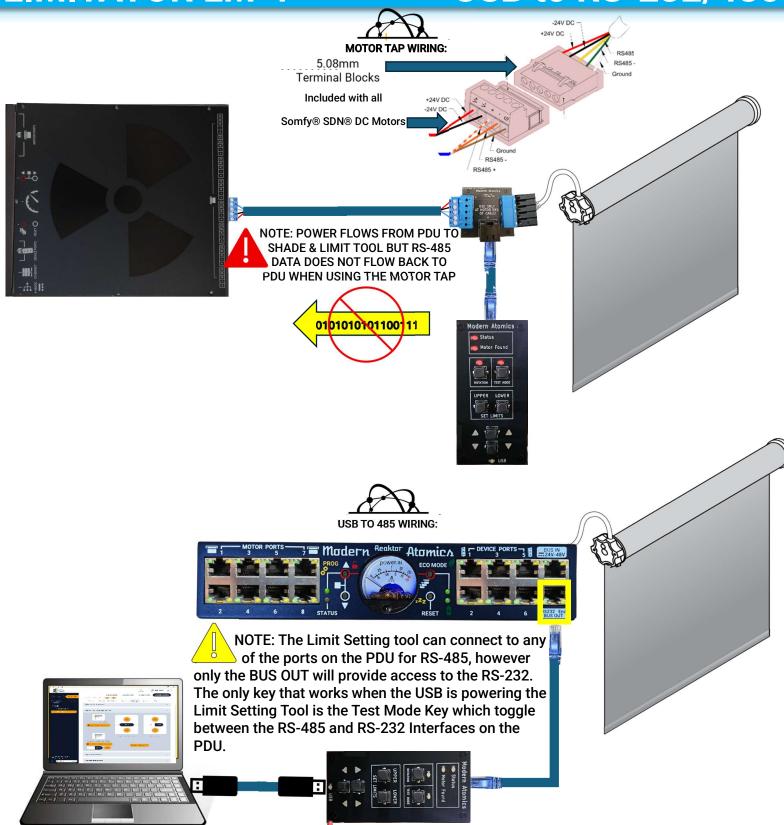


	ELEMENT	DESCRIPTION
Α	485 / 232 BUS PORT	RJ45 RS-485 or RS-232 BUS connection to PDU or MOTOR TAP (Break out board)
В	STATUS LED	LED ON = 7-28VDC Power found on RJ45 485 Port
С	MOTOR FOUND LED	LED OFF = No Motor found and or more than one Motor found on BUS
D	LIMITATOR LM-1	Hand-held Limit setting tool & USB C to RS-485 / RS-232 BUS RJ45 Interface
Е	ROTATION LED	LED OFF = Reverse Roll / LED ON = Standard Roll / LED Flashing = Unknown
F	TEST MODE LED	LED OFF = Limit Setting mode active / LED ON = Test mode active
G	ROTATION KEY	Pressing this key will toggle the motor rotation when in the Limit Setting mode
Н	TEST MODE KEY	When powered by the RS-485 RJ45 BUS Port, a press will toggle between the Limit Setting
		mode and the Test mode
		When powered by the USB C Port, a press will toggle between RS-485 & RS-232
1	EXPANSION PORT	This 6-pin port is reserved for factory firmware updates and processor diagnostics
J	UPPER LIMIT KEY	Pressing this key in the Limit Setting mode sets the motor upper limit to the current position
K	LOWER LIMIT KEY	Pressing this key in the Limit Setting mode sets the motor lower limit to the current position
L	UP KEY	In the Limit Setting mode a press sends 6 up pulses & a hold sends motor move up commands
		until you release the key (These commands will go past any current limits).
		In the Test mode a press will send go to the upper limit (if limits have already been set)
М	UP & DOWN KEYS	Press both keys to STOP any motor movement
N	DOWN KEY	In the Limit Setting mode a press sends 6 down pulses & a hold sends motor move down
		commands until you release the key (These commands will go past any current limits).
		In the Test mode a press will send go to the lower limit (if limits have already been set)
0	USB LED	LED ON = USB C port has power from PC / MOBILE Device
Р	USB C PORT	The USB C port provides a bridge to the 485/232 BUS for using PC motor configuration software
1	PDU RS-485 PORT	5 pole 5.08 Pitch Inverted header for connection to PDU using the Somfy® motor connector
2	RS-485 MOTOR TAP	Breakout board for use with the hand-held tool. 485 data does not flow back to the PDU Port
3	MOTOR 485 PORT	5 pole 5.08 Pitch normal header for connection to motor using the Somfy® motor connector
4	HAND-HELD PORT	RJ45 Connection to Hand-Held Tool RS-485 Data is only routed to the Motor Port



## **LIMITATOR LM-1**

## **USB to RS-232/485**





### **LIMITATOR LM-1**

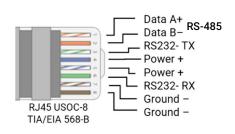
### **USB to RS-232/485**



**Motor Tap PDU and MOTOR Terminal Blocks** 













## **LIMITATOR LM-1**

### **USB to RS-232/485**







USB PORT: Type C (5 VDC)
SERIAL BUS PORT: RJ45 (7-36 VDC)
JTAG EXPANSION: 6-PIN (1.0 pitch)

(1) Limit Setting Tool

(1) RS-485 Motor Tap

(1) USB C Cable (1M)



PDU PORT: 5 POLE 5.08 PITCHMOTOR PORT: 5 POLE 5.08 PITCH

o HANDHELD PORT: RJ45



Works with all Somfy® SDN® Motors and Drapes



Qualified with the following Software:

Modern Atomics Configurator Mobile Software

Somfy® SET Pro Software

Somfy® SDN Motor Configuration Software

Somfy® SDN Keypad Configuration Software



### **LIMITATOR LM-1**

### **USB to RS-232/485**

### SOFTWARE: Modern Atomics Configurator

Configure Any Somfy® Motor

Configure Any Somfy® Decoflex® Keypad

Configure any Somfy® RTS® Keypad or remote or Sensor

Configure Somfy® RTS® to SDN® Receiver

Configure Pegasus RF Transciever

Configure Any Bond Sidekick Remote

Configure any Lutron® Pico® RF Remote

**MICん**® Configure any Modern Atomics Reaktor

Create, Edit, save and load site files

### **Modern Atomics Configurator V0.1**



MOTORS

Count = 5	W 80 - 3		Address	Label	Group 0	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Group 9	Group 10	Group 11	Group 12	Group 13	Group 14	Group 15
REFRESH	SEND	JOG	08bc70	R1 M1	222222		666666		333333											
REFRESH	SEND	JOG	089538	R2 M1	555555		666666													
REFRESH	SEND	JOG	08a175	T1 M1	111111		666666													
REFRESH	SEND	JOG	08bc54	R2 M2	444444		666666													
REFRESH	SEND	JOG	08a647	R1 M2	333333		666666													

#### KEYPADS

Count = 1		Address	Group 0	Group 1	Group 2	Group 3	Group 4
REFRESH	SEND	13ac99	111111	222222	333333	444444	666666

#### PEGASUS

Count = 1		Node	<b>GP</b> Input	Wind Input	RF	Group 0	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Group 9	Group 10	Group 11	Group 12	Group 13	Group 14	Group 15
Count - 1		Address	Group	Group	Function	Chan 0	Chan 1	Chan 2	Chan 3	Chan 4	Chan 5	Chan 6	Chan 7	Chan 8	Chan 9	Chan A	Chan B	Chan C	Chan D	Chan E	Chan F
	SEND	553385			RF RX ->	333333															
DEEDEOU			1		Kr KA ~	LEARN	LEARN	LEARN	LEARN	LEARN	LEARN										
KEIKESH			PROG	LEARN	RF TX ->																
				LEARN	Kr IA~	PROG	PROG	PROG	PROG	PROG	PROG										

RTS Receivers						
Count = 0	Address	Chan 1	Chan 2	Chan 3	Chan 4	Cha

Save Config To File Save

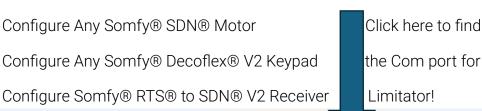
Load Config From File | Choose File | No file chosen

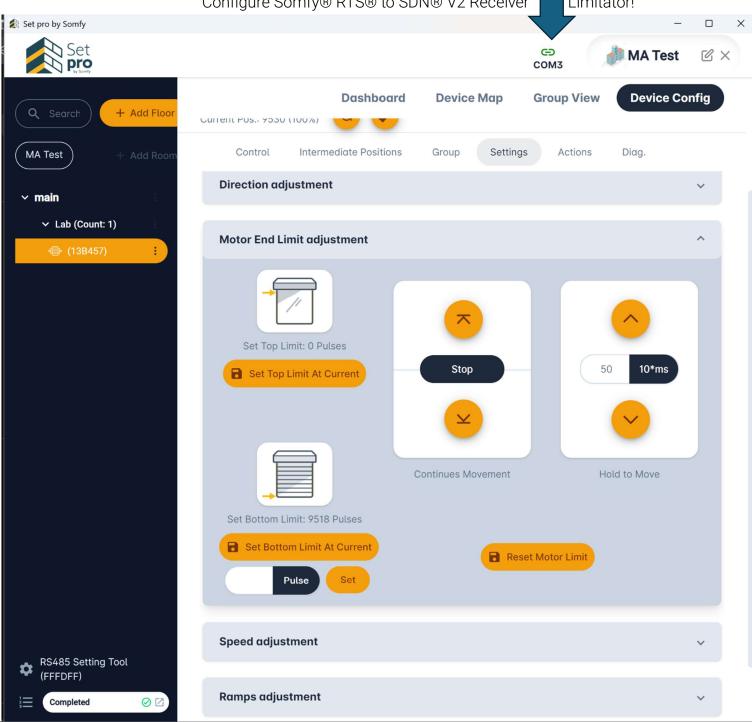


### **LIMITATOR LM-1**

## **USB to RS-232/485**

### SOFTWARE: Somfy® SETPro®







Texas 77465, United States

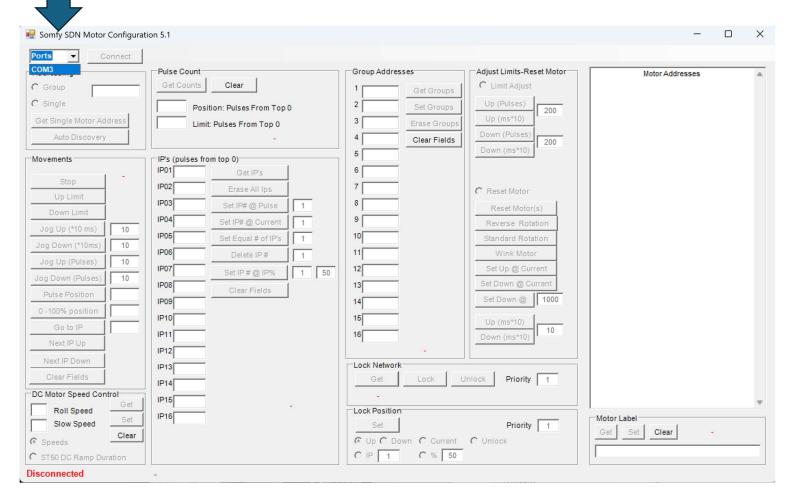
### **LIMITATOR LM-1**

### **USB to RS-232/485**

### SOFTWARE: Somfy® SDN® Motor Configuration Software

Configure Any Somfy® SDN® Motor

Click here to find the com port for Limitator





+1 (844) 771-8725

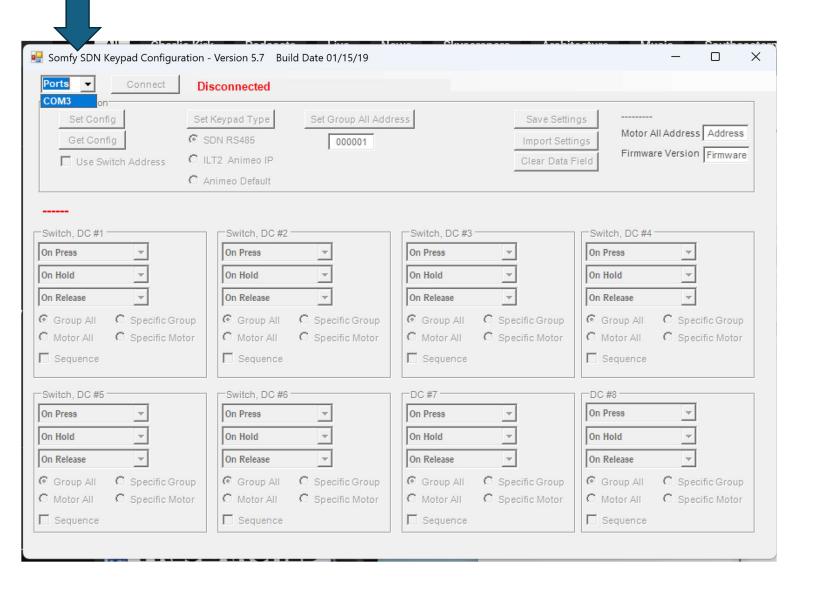
### **LIMITATOR LM-1**

### **USB to RS-232/485**

### SOFTWARE: Somfy® SDN® Keypad Configuration Software

Configure Any Somfy® Decoflex® Keypad

Click here to find the com port for Limitator





+1 (844) 771-8725