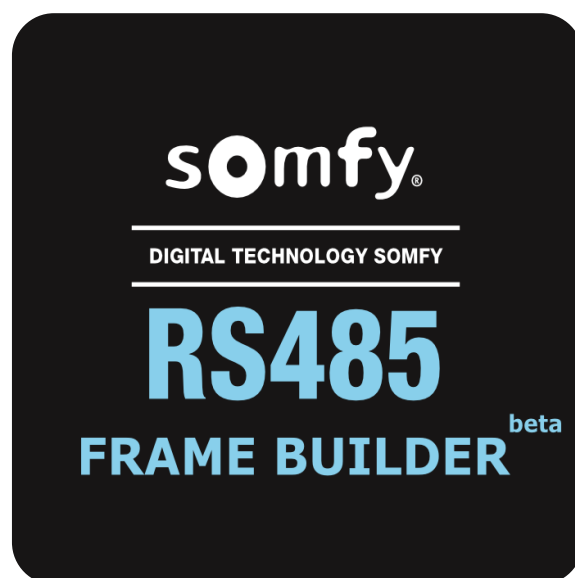


RS485 Frame Builder



Quick Guide

1. Objective

- The goal of this tool is to help system integrators, by avoiding to calculate in hexadecimal, to know which datas to send, to control Somfy RS485 products.
- No need to connect the PC to an RS485 network.

2. Configuration

- Windows XP

3. Installation

- Download the application:

RS485FrameBuilder Setup.1.1.1.33722.exe

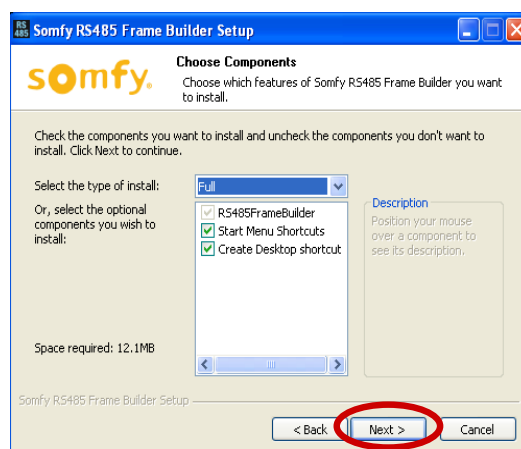
- Double-click to execute the installation



- Click on 'I Agree'

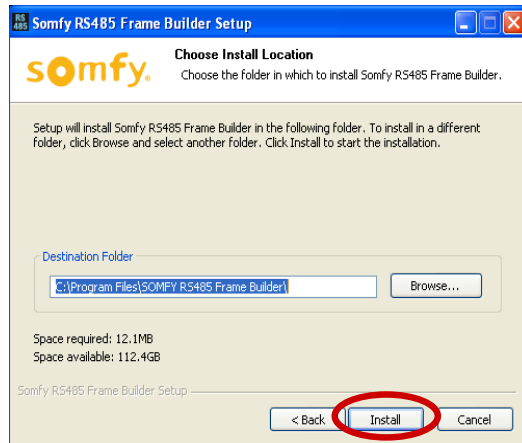


- Choose components, then click on 'Next >'

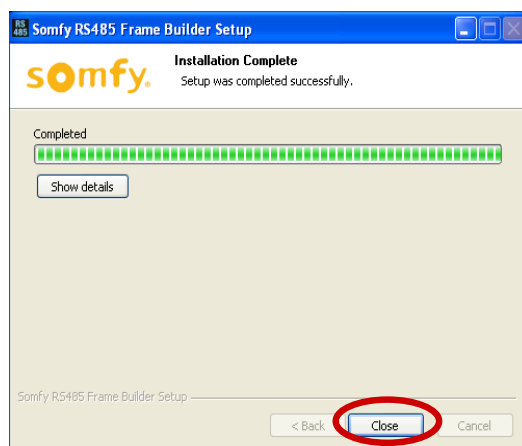


RS485 Frame Builder

- Select the destination folder, then click on '**Install**'



- Click on '**Close**' to finish the installation



RS485 Frame Builder

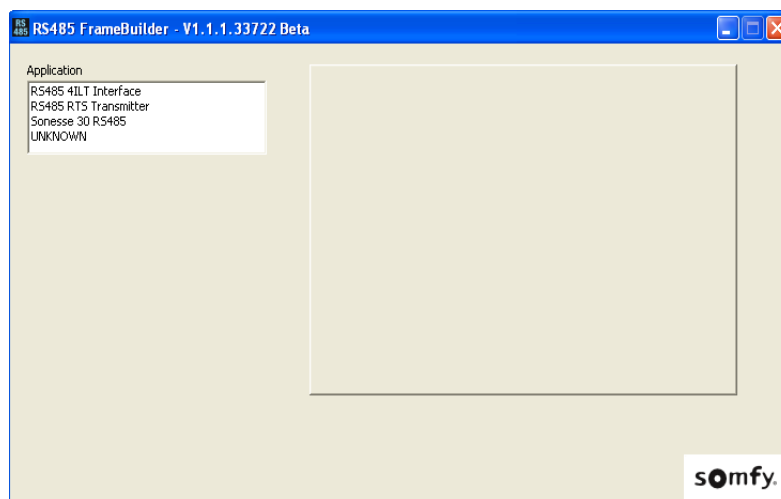
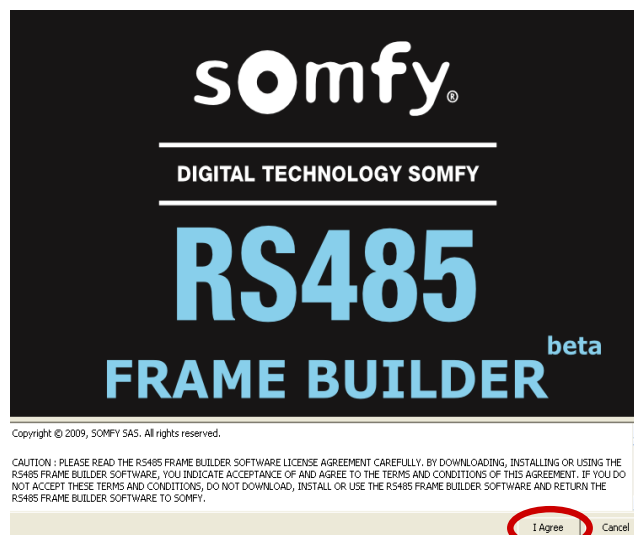
4. Use

- Launch the application 'RS485 Frame Builder'



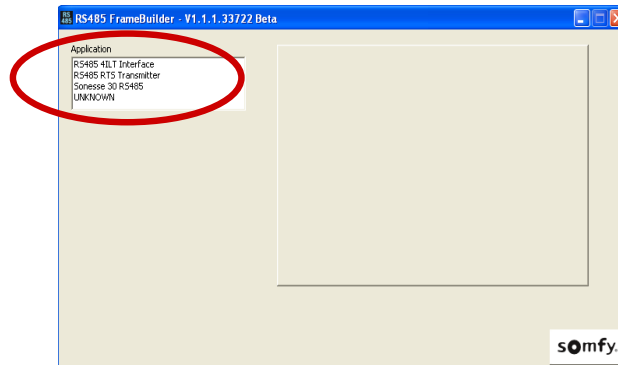
RS485 Frame
Builder

- A black window appears ; click on '**I Agree**' to continue or on '**Cancel**' to close



RS485 Frame Builder

- Select the concerned RS485 Somfy product



- List of managed RS485 products by the software:

- RS485 RTS TRANSMITTER



- RS485 4ILT INTERFACE



- SONESSE 30 RS485 (not launched internationally)



5. RS485 4ILT Interface



RS485 FrameBuilder - V1.1.1.33722 Beta

Application
 RS485 4ILT Interface
 RS485 RTS Transmitter
 Sonnesse 30 RS485
 UNKNOWN

Profiles / Product Revision
 0

IDs
 Sender Node ID 000001
 Dest Node ID 000002

Node Type 4

Addressing Modes
☒ Point To Point
☐ Group
☐ Broadcast

Acknowledgement ☐

Format String: ##
 Output Frame: BF F4 FB FE FF FF FD FF FF 08 A5

Messages box

Standard settings control status

GET_NODE_ADDRESS

somfy

Standard messages:

Standard

GET_NODE_ADDRESS

GET_NODE_ADDRESS
 GET_GROUP_ADDR
 SET_GROUP_ADDR
 GET_NODE_SW_INFO
 GET_NETWORK_STAT
 SET_NETWORK_STAT
 GET_MOTOR_SETTINGS
 GET_MOTOR_IP
 GET_MOTOR_POSITION
 GET_NODE_LABEL
 GET_MOTOR_INFO
 GET_DIAG
 GET_MOTOR_STATUS
 GET_IR_CONFIG
 GET_MOTOR_CONFIG
 GET_LOCK_STATUS
 GET_NODE_SW_BITS
 SET_MOTOR_SETTINGS
 SET_MOTOR_IP
 SET_MOTOR_POSITION
 SET_NODE_LABEL
 SET_MOTOR_INFO
 SET_IR_CONFIG
 SET_MOTOR_CONFIG
 SET_LOCK_STATUS
 SET_MOTOR_LIMITS

Settings messages:

settings

SET_FORMAT

SET_FORMAT
 RESET_FORMAT
 SET_SCREEN_POSITION

Control messages:

control

GOTO_FORMAT

GOTO_FORMAT

Status messages:

status

GET_SCREEN_STATUS

GET_SCREEN_STATUS

Addressing mode

★ Host address (master)

Slave address (= Node ID of the interface)

Output Frame = Data to send

! Red text means something is not correct !

★ Host@ = FF:FF:00 (FF FF 00 <= @ <= FF FF FE for a non-SOMFY host)
 Slave@ = 05:00:02 (See NodeID label on product)

- Standard messages supported by the RS485 4ILT Interface

Message's number	Message's name	Compatibility	Message's description
40	GET_NODE_ADDRESS	√	Ask all online nodes to send their NodeID
41	GET_GROUP_ADDR	√	Read one entry of groups table
51	SET_GROUP_ADDR	√	Define one entry in the group address table
70	GET_NODE_SW_INFO	√	Read software information
4E	GET_NETWORK_STAT	√	Request to send network communication statistics
5E	SET_NETWORK_STAT	√	Configure and reset network communication statistics

- Settings messages supported by the RS485 4ILT Interface

Message's number	Message's name	Compatibility	Message's description
90	SET_FORMAT	√	Store current position of each motor in the selected format definition
91	RESET_FORMAT	√	Erase definition of selected format
98	SET_SCREEN_POSITION	√	Send Up/Down/Stop order to the selected motor output

- Control messages supported by the RS485 4ILT Interface

Message's number	Message's name	Compatibility	Message's description
80	GOTO_FORMAT	√	Change position of all motors following selected format definition

- Status messages supported by the RS485 4ILT Interface

Message's number	Message's name	Compatibility	Message's description
88	GET_SCREEN_STATUS	√	Read all information available for the selected motor output

6. RS485 RTS Transmitter



Product version

RS485 FrameBuilder - V1.1.1.33722 Beta

Application
 RS485 4ILT Interface
 RS485 RTS Transmitter
 Sonesse 30 RS485
 UNKNOWN

Profiles / Product Revision
 No Rev / X01
 RL / X02

IDs
 Sender Node ID 000001
 Dest Node ID 000002

Node Type 5

Addressing Modes
☒ Point To Point
☐ Group
☐ Broadcast

Format String: #*
 Output Frame: BF F4 FA FE FF FF FD FF FF 08 A4

Messages box

Standard settings control status

GET_NODE_ADDRESS

somfy

Addressing mode

★ Host address (master)
 Slave address (= Node ID of the transmitter)

Output Frame = Data to send

Standard

Standard

GET_NODE_ADDRESS

GET_NODE_ADDRESS
 GET_GROUP_ADDR
 SET_GROUP_ADDR
 GET_NETWORK_STAT
 GET_NETWORK_ERROR_STAT
 SET_NETWORK_STAT
 GET_NODE_SERIAL_NUMBER
 GET_NODE_APP_VERSION
 GET_NODE_LABEL
 SET_NODE_LABEL

Settings messages:

settings

SET_CHANNEL_MODE

SET_CHANNEL_MODE
 SET_TILT_FRAMECOUNT
 SET_DIM_FRAMECOUNT
 SET_SUN_AUTO
 SET_DCT_LOCK
 SET_CHANNEL
 SET_OPEN_PROG
 SET_RTS_ADDRESS_CHANGE
 SET_IP

Control messages:

control

CTRL_POSITION

CTRL_POSITION
 CTRL_TILT
 CTRL_DIM

Status messages:

status

GET_CHANNEL_MODE

GET_CHANNEL_MODE
 GET_TILT_FRAMECOUNT
 GET_DIM_FRAMECOUNT
 GET_DCT_LOCK
 GET_RTS_ADDRESS

! Red text means something is not correct !

★ Host@ = FF:FF:00 (FF FF 00 <= @ <= FF FF FE for a non-SOMFY host)
 Slave@ = 05:00:02 (See NodeID label on product)

- Standard messages supported by the RS485 RTS Transmitter

Message's number	Message's name	Compatibility	Message's description
40	GET_NODE_ADDRESS	√	Ask all online nodes to send their NodeID
41	GET_GROUP_ADDR	√	Read one entry of groups table
51	SET_GROUP_ADDR	√	Define one entry in the group address table
4E	GET_NETWORK_STAT	√	Request to send network communication statistics
4D	GET_NETWORK_ERROR_STAT	√	Read error counter of the stack
5E	SET_NETWORK_STAT	√	Configure and reset network communication statistics
4C	GET_NODE_SERIAL_NUMBER	√	Read serial number of the node
74	GET_NODE_APP_VERSION	√	Read version of the software
45	GET_NODE_LABEL	√	Read label of the node
55	SET_NODE_LABEL	√	Write label of the node

- Settings messages supported by the RS485 RTS Transmitter

Message's number	Message's name	Compatibility	Message's description
90	SET_CHANNEL_MODE	√	Set the modes to use
91	SET_TILT_FRAMECOUNT	√	Set the number of RTS frames the product should send on a CTRL_TILT order
92	SET_DIM_FRAMECOUNT	√	Set the number of RTS frames the product should send on a CTRL_DIM order
93	SET_SUN_AUTO	√	Activate/Deactivate the sun protection
94	SET_DCT_LOCK	√	Lock/Unlock Dry Contact inputs
97	SET_CHANNEL	√	Validate an addition or a deletion of an RTS channel's address
98	SET_OPEN_PROG	√	Open the programming mode of a receiver
9A	SET_IP	√	Record/Delete Intermediate Position

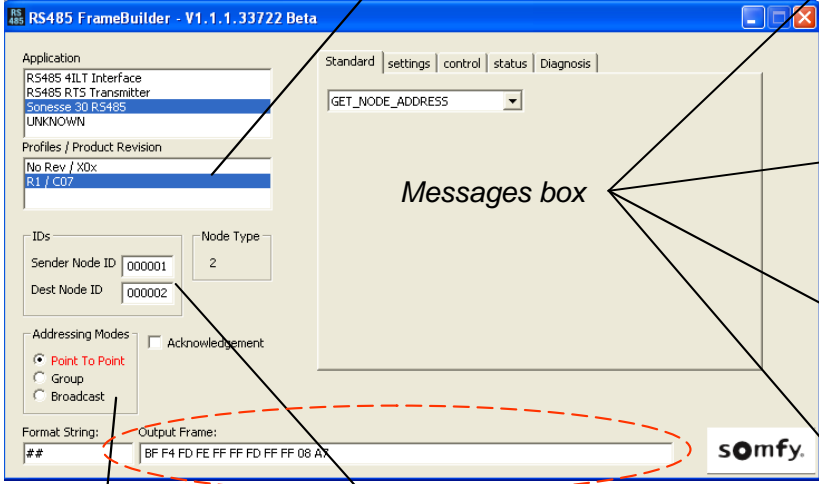
- Control messages supported by the RS485 RTS Transmitter

Message's number	Message's name	Compatibility	Message's description
80	CTRL_POSITION	√	Send orders to open (or ON), stop a movement, go to the favorite position and to close (or OFF)
81	CTRL_TILT	√	Send orders to tilt slats of venetian blinds
82	CTRL_DIM	√	Send orders to dim the light on RTS receivers with dimming function

- Status messages supported by the RS485 RTS Transmitter

Message's number	Message's name	Compatibility	Message's description
A0	GET_CHANNEL_MODE	√	Get the modes used for the selected channel
A1	GET_TILT_FRAMECOUNT	√	Get the number of RTS frames the product should send on a CTRL_TILT order (=accuracy)
A2	GET_DIM_FRAMECOUNT	√	Get the number of RTS frames the product should send on a CTRL_DIM order (=accuracy)
A4	GET_DCT_LOCK	√	To know which Dry Contact inputs are locked or not

7. Sonesse 30 RS485 *



Product version

Messages box

Addressing mode

Host address (master)

Slave address (= Node ID of the motor)

Output Frame = Data to send

Output Frame: BF F4 FD FE FF FF FD FF FF 08 A7

Standard

Standard settings control status Diagnosis

GET_NODE_ADDRESS

GET_NODE_ADDRESS

GET_GROUP_ADDR

SET_GROUP_ADDR

GET_NETWORK_STAT

GET_NETWORK_ERROR_STAT

SET_NETWORK_STAT

GET_NODE_SERIAL_NUMBER

GET_NODE_APP_VERSION

GET_NODE_LABEL

SET_NODE_LABEL

Settings messages:

Standard settings control status Diagnosis

SET_MOTOR_LIMITS

SET_MOTOR_LIMITS

SET_MOTOR_DIRECTION

SET_MOTOR_ROLLING_SPEED

SET_MOTOR_IP

SET_DCT_LOCK

SET_FACTORY_DEFAULT

Control messages:

Standard settings control status Diagnosis

CTRL_MOVE

CTRL_MOVE

CTRL_STOP

CTRL_MOVE_TO

CTRL_MOVE_EOF

CTRL_WINK

Status messages:

Standard settings control status Diagnosis

GET_MOTOR_POSITION

GET_MOTOR_POSITION

GET_MOTOR_STATUS

GET_MOTOR_LIMITS

GET_MOTOR_DIRECTION

GET_MOTOR_ROLLING_SPEED

GET_MOTOR_IP

GET_DCT_LOCK

GET_FACTORY_DEFAULT

! Red text means something is not correct !

★ Host@ = FF:FF:00 (FF FF 00 <= @ <= FF FF FE for a non-SOMFY host)
 Slave@ = 05:00:02 (See NodeID label on product)

* : Not launched internationally

- Standard messages supported by the Sonesse 30 RS485

Message's number	Message's name	Compatibility	Message's description
40	GET_NODE_ADDRESS	√	Ask all online nodes to send their NodeID
41	GET_GROUP_ADDR	√	Read one entry of groups table
51	SET_GROUP_ADDR	√	Define one entry in the group address table
4E	GET_NETWORK_STAT	√	Request to send network communication statistics
4D	GET_NETWORK_ERROR_STAT	√	Read error counter of the stack
5E	SET_NETWORK_STAT	√	Configure and reset network communication statistics
4C	GET_NODE_SERIAL_NUMBER	√	Read serial number of the node
74	GET_NODE_APP_VERSION	√	Read version of the software
45	GET_NODE_LABEL	√	Read label of the node
55	SET_NODE_LABEL	√	Write label of the node

- Settings messages supported by the Sonesse 30 RS485

Message's number	Message's name	Compatibility	Message's description
11	SET_MOTOR_LIMITS	√	Set or adjust UP and DOWN motor limits
12	SET_MOTOR_DIRECTION	√	Set the rotation direction of the motor
13	SET_MOTOR_ROLLING_SPEED	√	Set the motor speed for rolling application
15	SET_MOTOR_IP	√	Set or delete Intermediate Positions
17	SET_DCT_LOCK	√	Lock/Unlock local dry contact inputs
1F	SET_FACTORY_DEFAULT	√	Recall factory default for all or selected parameters

- Control messages supported by the Sonesse 30 RS485

Message's number	Message's name	Compatibility	Message's description
01	CTRL_MOVE	√	Start a UP or DOWN movement in momentary mode (for settings)
02	CTRL_STOP	√	Stop all movement
03	CTRL_MOVE_TO	√	Move to an absolute position: Up end-limit, Down end-limit, one of the 16 th Favourite Intermediate Position, Position in pulses, Position in %
04	CTRL_MOVE_OF	√	Relative movement from current position: Next IP up, Next IP down, Jog up (in pulses or msec), Jog down (in pulses or msec)
05	CTRL_WINK	√	Move the blind for visual identification: Up and down movement

- Status messages supported by the Sonesse 30 RS485

Message's number	Message's name	Compatibility	Message's description
0C	GET_MOTOR_POSITION	√	Request current position of the motor
0E	GET_MOTOR_STATUS	√	Request current status of the motor
21	GET_MOTOR_LIMITS	√	Request values of UP and DOWN end-limits
22	GET_MOTOR_DIRECTION	√	Request motor rotation direction
23	GET_MOTOR_ROLLING_SPEED	√	Request motor speed values for the rolling mode
25	GET_MOTOR_IP	√	Request position of an Intermediate Position (in pulses or %)
27	GET_DCT_LOCK	√	Request the status of a DCT input: Lock or unlock
2F	GET_FACTORY_DEFAULT	√	Request if specified function has its default value