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RS485 Demo Tool

Installation Guide

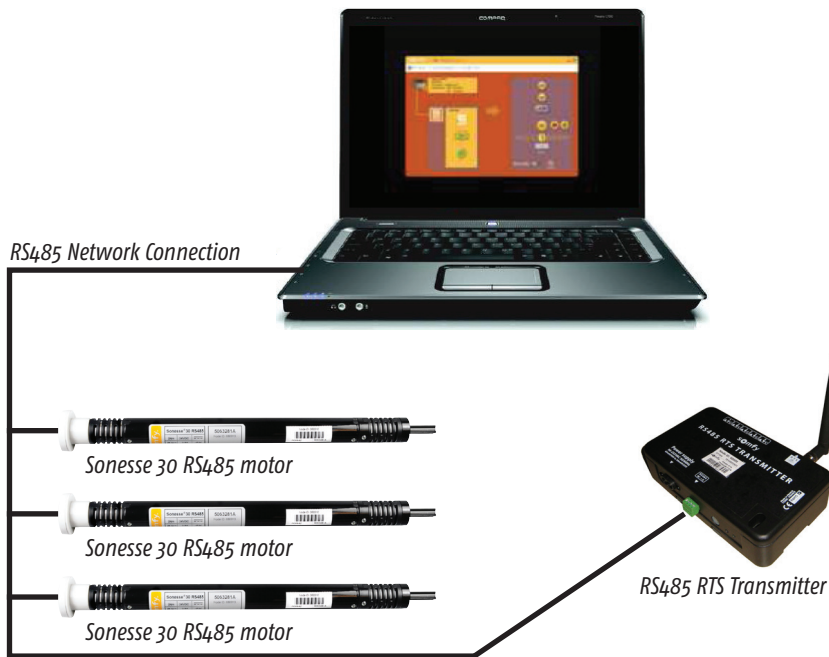
Version_0.01.10



RS485 Demo Tool – Overview

This guide will focus on connecting your laptop (or PC) with either the Sonesse 30 RS485 motor or RS485 RTS Transmitter – both or which operate on RS485 protocol.

We recommend you use a USB to RS485 lead to establish a communication link between your laptop and the Somfy RS485 products in your project. This is available to purchase from Somfy and is supplied with all relevant software, drivers and instruction manuals to provide the communication link and guidance for set up and commissioning.



The RS485 demo tool software is used to control, from a computer, Somfy motorised applications through a RS485 network. It is possible to control the Sonesse 30 RS485 motor directly, or control RTS devices via the RS485 RTS Transmitter.

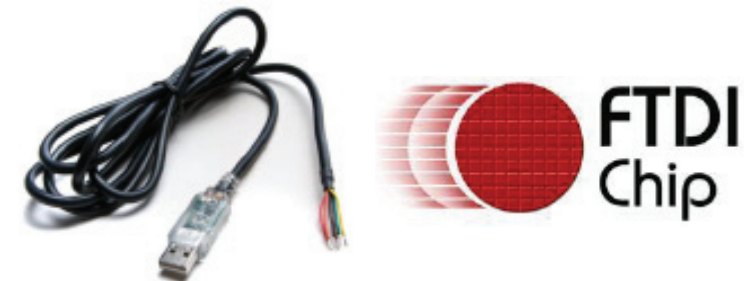
RS485 Demo Tool – Requirements

If commissioning for the first time, you will require the following hardware and software in order to communicate with the Somfy RS485 products:

Somfy RS485 Demo Tool Software



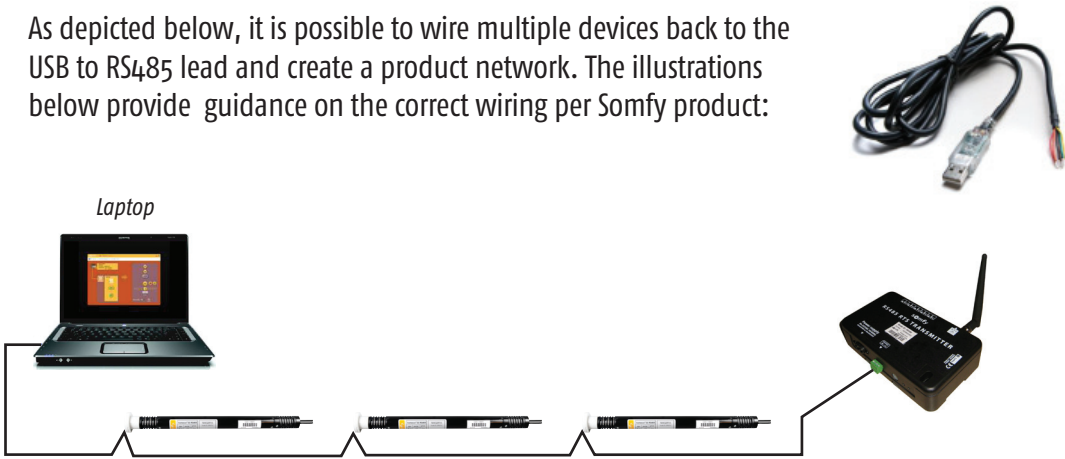
USB to RS485 lead and driver software



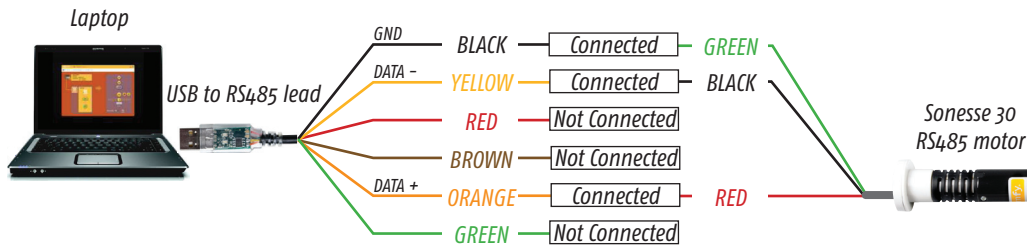
A Somfy RS485 commissioning kit is available to purchase (ref. xxxxxxxx), which includes the items described above. The software – Somfy RS485 Demo Tool & USB to RS485 lead driver software – is supplied on a USB stick along with the USB to RS485 lead.

Wiring

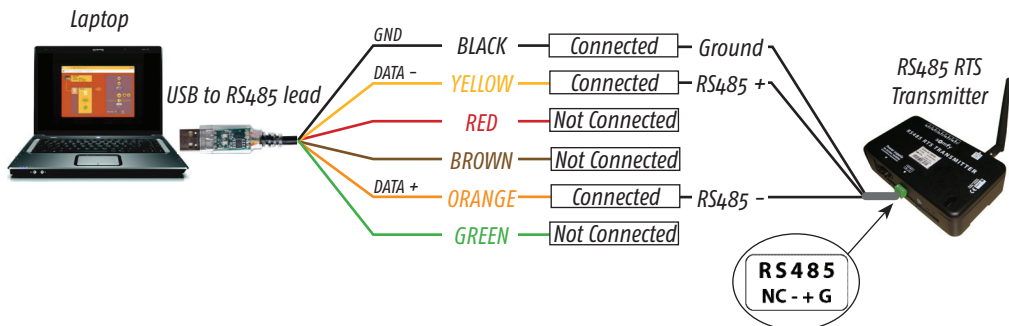
As depicted below, it is possible to wire multiple devices back to the USB to RS485 lead and create a product network. The illustrations below provide guidance on the correct wiring per Somfy product:



SONESSE 30 RS485 MOTOR WIRING – USE THE 3 CORE CABLE FROM THE MOTOR HEAD

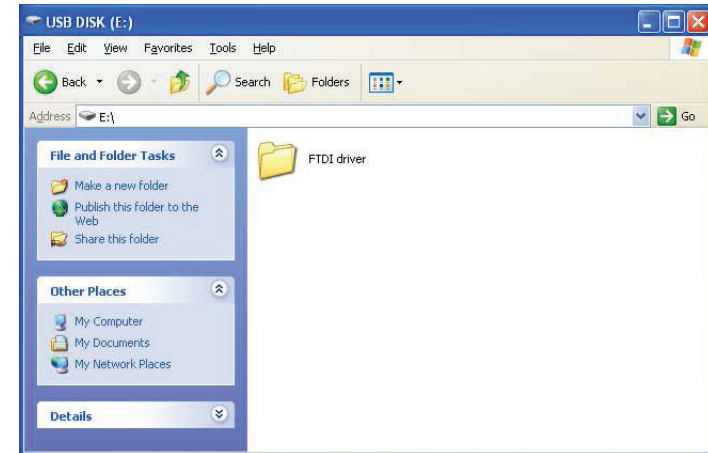


RS485 RTS TRANSMITTER WIRING – WIRE INTO THE 4 WAY GREEN TERMINAL BLOCK

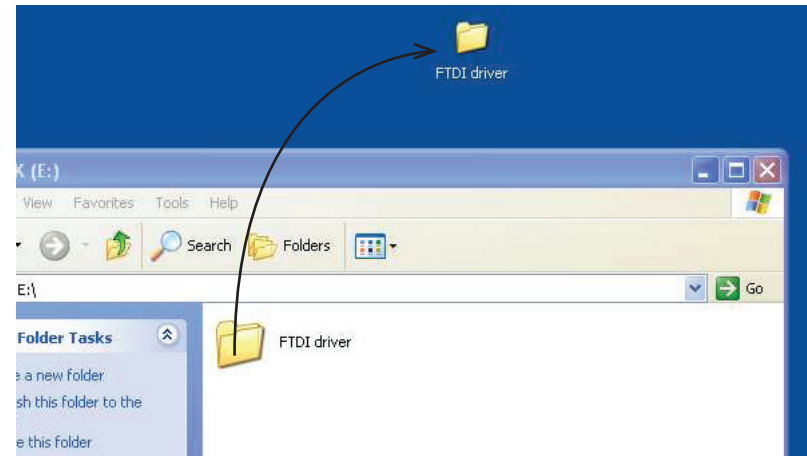


USB to RS485 Lead – Driver Installation

- Insert the USB stick from the Somfy RS485 commissioning kit into an empty USB port and locate the USB to RS485 lead driver software labelled – 'FTDI driver'




- Drag the 'FTDI driver' folder onto your laptop desktop.



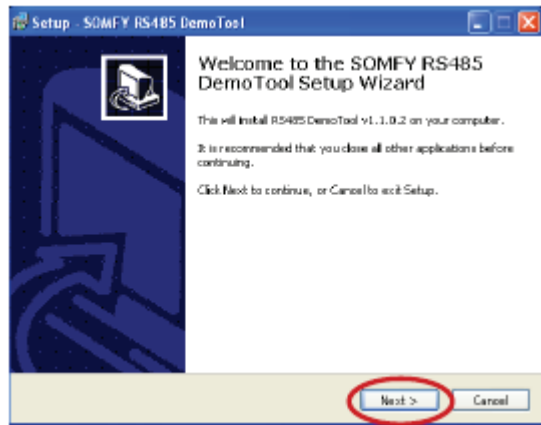
- This will ensure that the USB to RS485 lead recognised the driver software required to operate correctly.

Software Installation 1/4

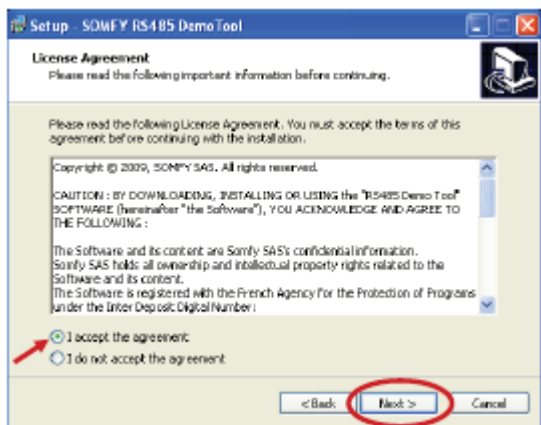
- Access the USB stick and locate – Setup_RS485_DemoTool_v1102.exe.

 Setup_RS485_DemoTool_v1102.exe

- Double-click to execute the setup
- Click on 'Next >'

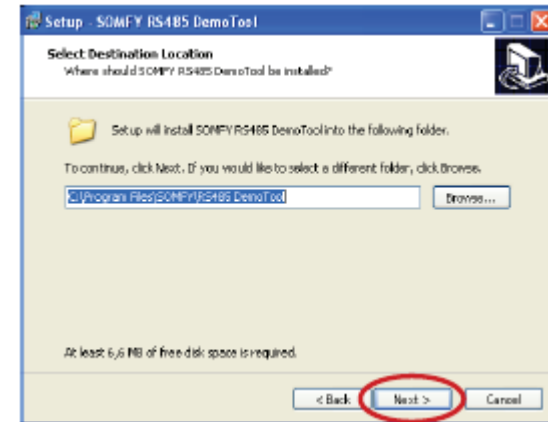


- Select 'I accept the agreement', then click on 'Next >'

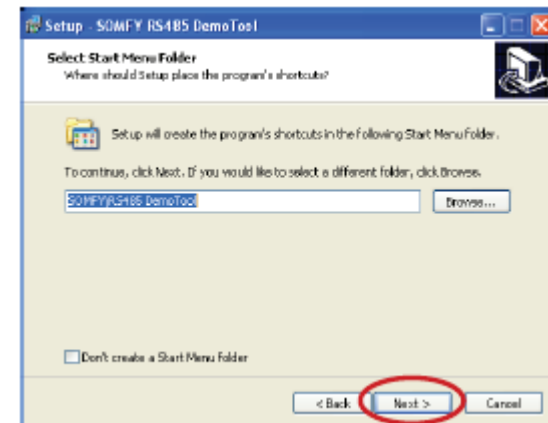


Software Installation 2/4

- Select the Destination Location, then click on 'Next >'

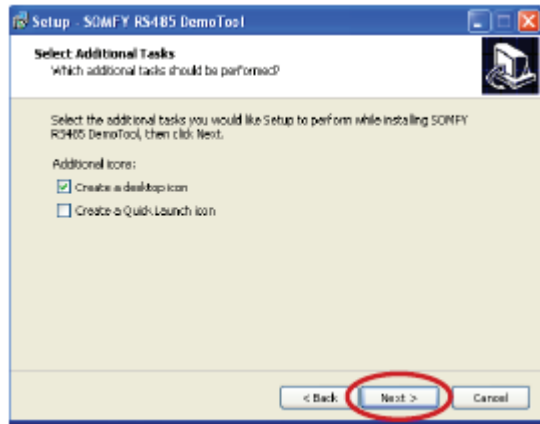


- Select the Start Menu Folder, then on 'Next >'



Software Installation 3/4

- Select Additional tasks, then click on 'Next >'

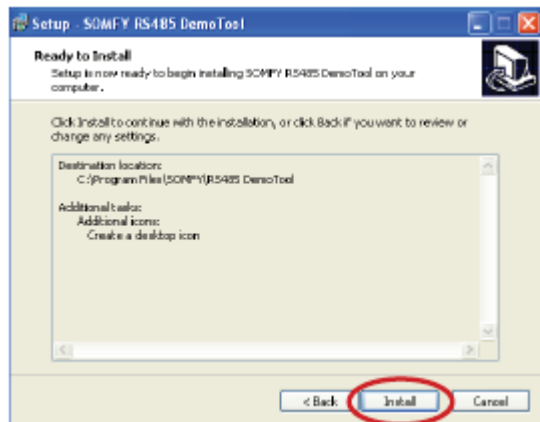


Software Installation 4/4

- Click on 'Finish'

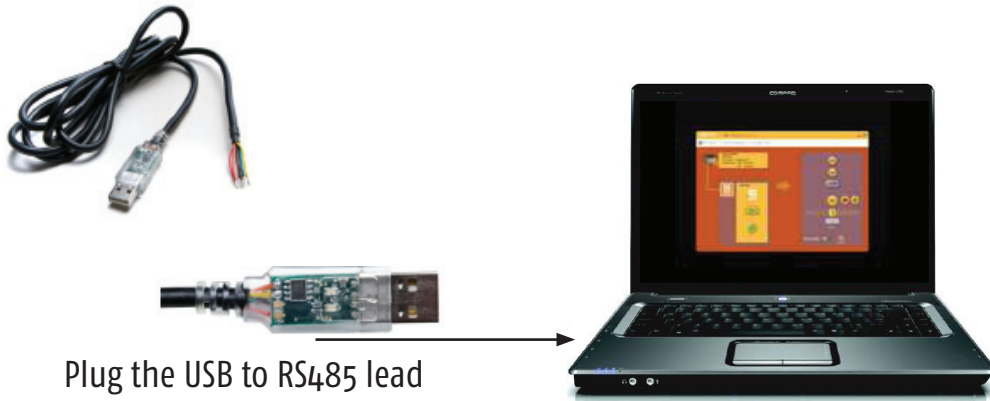


- Click on 'Install' to continue

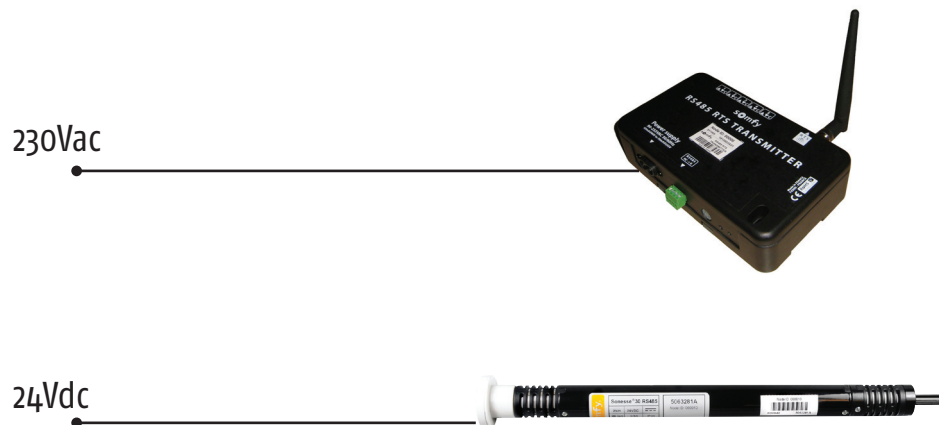


Power Up

- Power up all devices ready for the commissioning process:



Plug the USB to RS485 lead into the laptop



Launching

- Launch the application 'RS485 DemoTool' from the start menu of Microsoft Windows



- Or double-click on desktop icon »

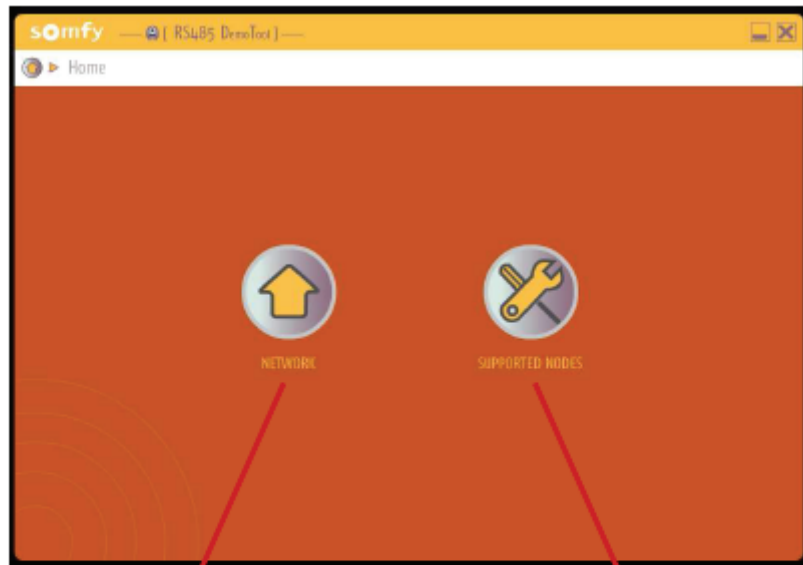


- The Welcome page appears with SOMFY agreements. Click anywhere on the yellow screen to continue



Home

- Home page:

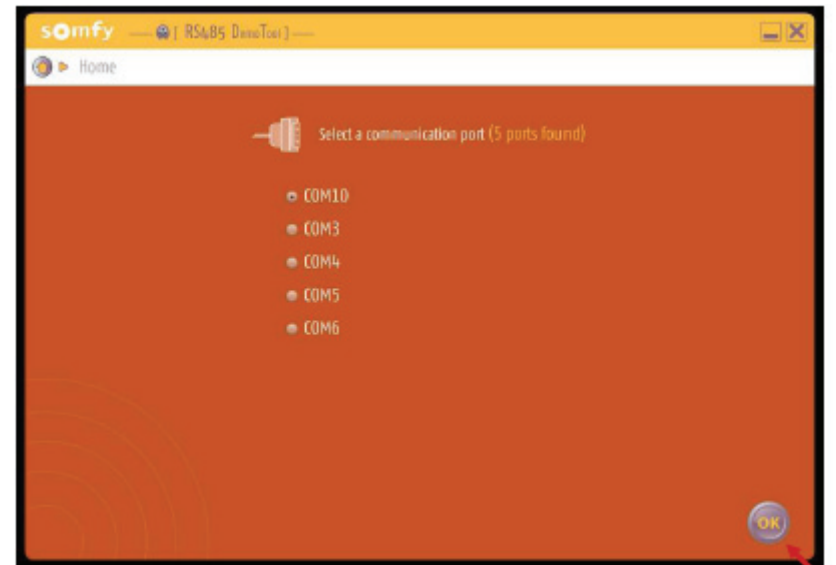


Click on **NETWORK**, to connect the computer to an RS485 Somfy network

Click on **SUPPORTED NODES**, to know the product's compatibility of the demo tool

Connection

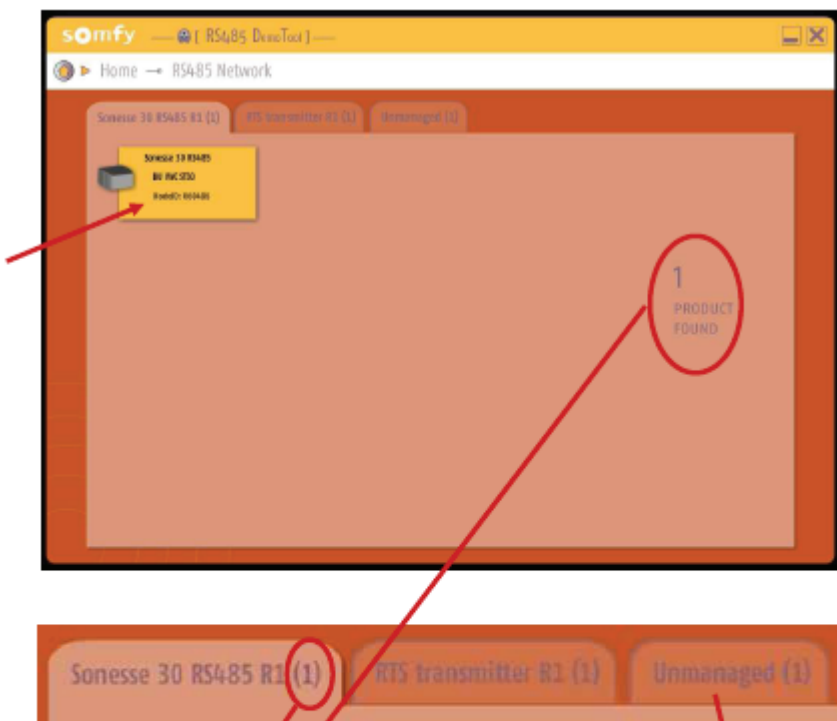
- After clicking on 'NETWORK', select the corresponding COM port, that the USB to RS485 lead is connected to and click on 'OK'



- If you don't know which COM port the lead is connected to, try each one in turn (select the COM port and click 'OK') until the correct COM port is selected

Nodes discovery

- The Demo Tool shows nodes, discovered on the RS485 network, and identifies them per type of product (one tab per type of product). Click on the desired node (yellow box).



Number of discovered nodes with the same profile

Unmanaged : Somfy nodes discovered by the tool, but not supported by the current software version

Sonesse 30 RS485 Motor

- Sonesse 30 RS485 configuration overview:

Click on **tools**, to set the motor

Informations about the node : type of product, name, stack version, application version, serial number

Click on the **'Blind'** to have access to the control box. If not, it means the motor is not set

Control box : See next page

Click on the **'Refresh'** button to know the current position of the motor (in %)

Sonesse 30 RS485 Motor

- Sonesse 30 RS485 control box:

Open button

Close button

Stop button

Intermediate Position button

Record the current position as an Intermediate Position

Delete the selected Intermediate Position

Select an Intermediate Position by clicking on a number, or by using LEFT-RIGHT arrows

Current selected Intermediate Position

Value (in%) of the Intermediate Position

Status of end-limits

Click on **tools**, to re-adjust end-limits

End Limits : SET Re-adjust

My value 13%

my

14 15 16 1 2 3 4

RS485 RTS Transmitter

- RS485 RTS transmitter configuration overview:

Click on **tools**, to set the interface (name and dry contact inputs locking)

Information about the node : type of product, name, stack version, application version, serial number

Click on **tools**, to set the selected RTS channel

Control box : See next page

Click on the **Blind** to have access to the control box of the current selected channel

Use UP and DOWN arrows to select the desired channel

RTS Transmitter
RS485 Interface
Serial number : RS013 00 0000
Software Version : 0045 106240004
APP : 000111000

Blind Blind
Address 0000
Blind Blind

RS485 DataTool

Home → RS485 Network → BU NYC Interface

my

Stop

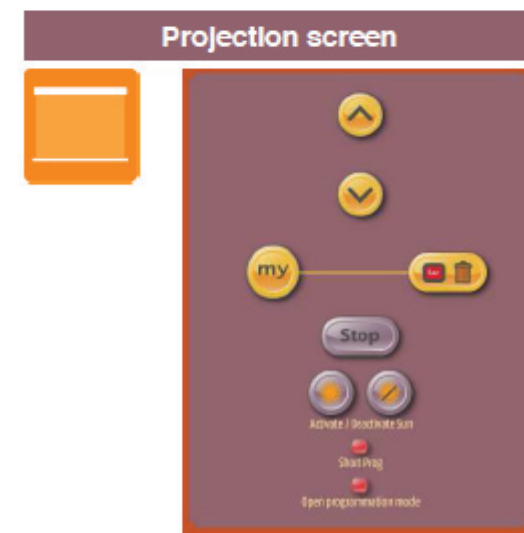
13%

my value

End Limits : SET Re-adjust

RS485 RTS Transmitter – Control Box

- RS485 RTS Transmitter : The control box functions may vary depending on the application selection:



RS485 RTS Transmitter – Control Box

