QUICK START GUIDE – AUTOMATE™ CONTROL4
INTEGRATION SUPPORT

HUB OVERVIEW

Take your Automate experience to the next level by integrating Automate™ motorized shades into Savant's industry-leading smart home control systems. TSS's rich integration supports discrete shade control and features a two-way communication system offering real time shade position and battery level status.

The Pulse Hub supports plug 'n play RS485 or RS232 Serial integration through a RJ9 port conveniently located on the back of the hub. Each hub can support integration of up to 30 shades.

Pro Tip: Serial via 3.5mm jack is NOT supported.

CONTROL4 HUB DRIVER INSTALLATION

1. Connect the Rollease Acmeda Pulse Bridge to an available Control4 serial port.
2. Download the Automate™ Pulse Hub Serial Driver (here).
3. In Composer software, place the Automate™ Pulse Hub driver into the project.
4. Navigate to the connections tab and bind proper serial connection binding to the driver.
   a. The driver will automatically find the hubs on the serial connection.
   b. If there is only 1 hub, the driver will automatically select the hub and find all shades for the hub and create bindings for them.
5. Select a hub from the 'Hub Address' property.
   a. The driver will automatically find the shades available for the hub and create connections for them.
6. The "Automate Pulse Hub" driver is now fully functioning.

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CONTROL4 MOTOR DRIVER INSTALLATION

7. For each shade that the "Automate™ Pulse Hub" has added to the connections, add an "Automate™ Pulse Shade" driver to the project
8. Bind the "Automate™ Pulse Shade" drivers to the "Automate™ Pulse Hub"
   a. You can use the "Jog" action to more easily identify shades
   b. Once the connection has been bound, the driver will automatically populate shade properties
9. Set the 'Shade Movement Type' to 'Move' or 'Rotate' in order to determine what the driver should Control.
   a. 'Move' will control basic shade movement
   b. 'Rotate' will control the motor rotation
10. Run the 'Calibrate' action on the shade, this will inform the driver of how long it takes for the shade to open and close
11. Refresh Navigators

AUTOMATE™ CONTROL4 DRIVER GUIDE

■ Simple installation of the hub driver, connect the serial binding and select the hub

■ Responsive serial communication

■ Automatically calculates the travel time of the motors accurate to within 50ms

PROPERTIES

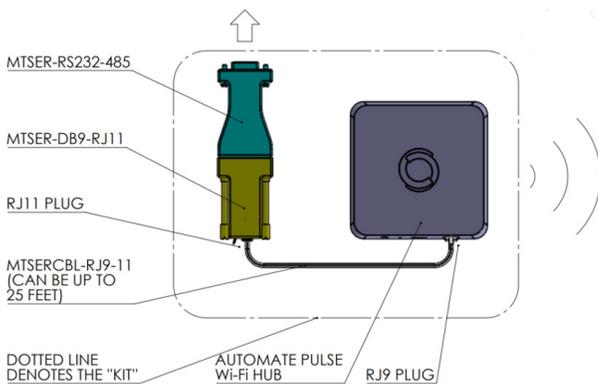| Property	Description		
Auto Update	Enables or disables real time updates of the driver		
	For support of this property the annex4 LiNK driver is required		
Driver Version	The current version of the driver		
Properties	The server version of the driver		
	For support of this property the annex4 LiNK driver is required		
Debug Mode	Reports information to the log and Lua output window		
	Modes		
	Debug	Reports the data being moved around	
	Trace	Reports the flow of the driver	
	Info	Reports important pieces of information	
	Warning	Reports any small issues that arise	
	Error	Reports any large issues that arise	
	Fatal	Reports issues that cause the driver to fail	
Hub Address	The hub address that the driver is primarily communicating to		
	If only 1 hub is on the serial connection it will be automatically selected when the serial connection is bound		
Detected Shades	Lists the addresses of all shades discovered on the hub		
Terminal	Allows the dealer to manually send commands to the automate hub		
	Commands should be formatted with a starting ! and an ending ;		
	Responses will show in the property after a couple hundred milliseconds		

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ACTIONS

Action Name	Description
Retrieve Shades	Create bindings for paired shades on the serial connection
Clear Shades	Clear the bindings created for shades on the serial connection
Retrieve Hubs	Retrieves the available hubs on the serial connection
Calibrate All	Informs each motor endpoint to calibrate its motor travel times
Update Now	Updates the driver to the latest version
Open All	Opens all shades
Close All	Closes all shades

CONNECTIONS

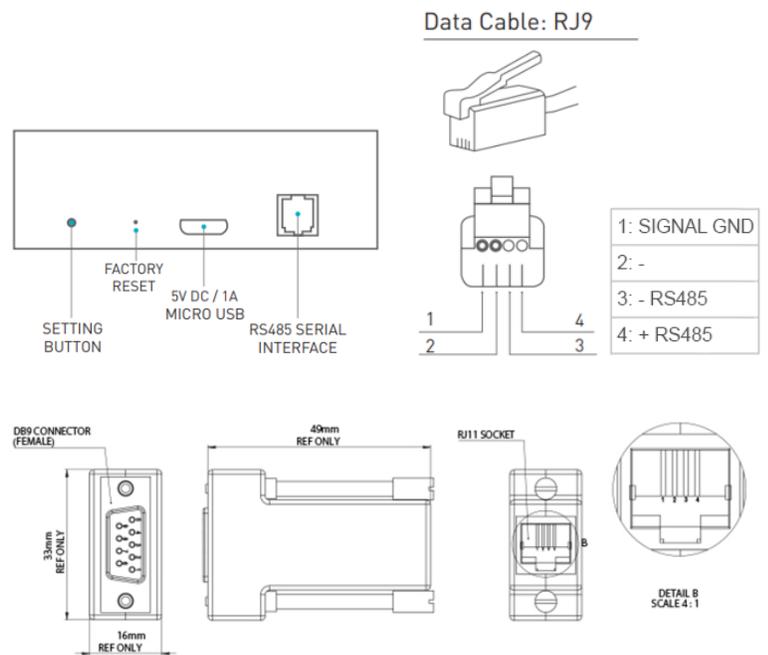| Control Name	Connection Type	Description
Serial RS-232	RS_232	The communication binding to the hub
<Shade Address>	AUTOMATE_SHADE	The communication binding to blind shade endpoint
LiNK Reveal	LINK_REVEAL	This connection is used for annex4's notification and display type devices. By using this binding you can get notifications on display type devices with minimal programming.

INTEGRATION DIAGRAM

MTSER-RS232-485

MTSER-DB9-RJ11

RJ11 PLUG

MTSERCBL-RJ9-11 (CAN BE UP TO 25 FEET)

DOTTED LINE DENOTES THE "KIT"

AUTOMATE PULSE Wi-Fi HUB

RJ9 PLUG

SERIAL CONNECTION KIT PART #: MT02-0406-000001

PULSE HUB CONNECTIONS

Data Cable: RJ9

FACTORY RESET

SETTING BUTTON

5V DC / 1A MICRO USB

RS485 SERIAL INTERFACE

1: SIGNAL GND
2: -
3: - RS485
4: + RS485

DB9 CONNECTOR (FEMALE)

49mm REF ONLY

RJ11 SOCKET

33mm REF ONLY

16mm REF ONLY

DETAIL B SCALE 4 : 1

PIN CONNECTION DEFINITION

RJ11 PIN	DB9 PIN	RS-485 INTERFACE
4	1	+RS485
3	2	-RS485
1-2	3-9	Not used

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FREQUENTLY ASKED QUESTIONS

Q No Pulse hub detected.

A Make sure that your serial binding is assigned to the correct serial output of the Control4 controller.
Confirm you are using a Rollease Acmeda approved RS232 adapter. Serial connection kit part number is: MT02-0406-000001

Q Shade limits are not set properly.

A Calibrate shade limits with your Rollease Acmeda remote before setting the appropriate open and close time within Control4.

Q Shade is not moving at all.

A Make sure the selected Pulse Hub is the correct Pulse Hub for the shade to be controlled. Confirm the correct bindings are set in the Control4 connections tab between the Pulse Hub and Shade drivers.

Q I have multiple Pulse Hub's, what do I do?

A Load two Pulse Hub drivers. After selecting "Retrieve Hubs" located in the driver actions tab , you will see different Pulse Hubs - select the desired one.

Q I don't see any shade bindings in the Pulse Hub driver?

A Select "Retrieve Shades" located in the driver actions tab.

Q How do I scan for available Pulse Hubs?

A Once the Pulse Hub is properly connected via the RS232 to RS485 adapter, navigate to the Pulse Hub Properties page within Composer. Select "Retrieve Hubs" located in the driver actions tab.

Q We get unexpected responses from the Control4 system, or "?" symbols

A Ensure connections use DB9 ports on Control4. The 3.5mm port is not supported, and has been known to yield unwanted or unexpected results.

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