

# Modbus 4CH Solid State Relay Datasheet



## 1 Introduction

Modbus 4CH **S**olid **S**tate **R**elay (SSR) incorporates 4 relay controllers with an AC load current handling capacity of 1.80A. The relays can switch AC loads between 50Hz and 60Hz. Additional zero-cross features are included in the Modbus 4CH solid state relay.

Modbus 4CH Solid State Relay controllers are ideal for forward and reverse motor control applications, switching loads on and off, and handling inrush current efficiently.

Enhance your illumination control with our cutting-edge product tailored for precise LED strip management. Engineered with meticulous technical precision, our solid-state relay incorporates zero-cross detection technology, providing a distinct advantage in efficiency and performance. This innovative feature ensures optimal synchronization with the AC power waveform, mitigating electrical stress during switching and minimizing potential flickering issues.

## 1.1 Features

- 4 Channels Solid State Relay
- Status LEDs indicate relay activation states.
- Supports AC loads up to 1.8A per relay channel.
- Supports AC (20VAC to 240VAC)
- Supports zero-cross turn-on circuitry.
- Fast-blow fuse protection
- Implements the Modbus RTU protocol.
- Low power consumption of 271mW (typical)
- Operating temperature from 0°C to 70°C
- Flush mount and DIN Rail mounting options.

Visit <https://brtsys.com/resources> for more information.



Neither the whole nor any part of the information contained in, or the product described in this manual, may be adapted, or Reproduced in any material or electronic form without the prior written consent of the copyright holder. This product and its documentation are supplied on an as-is basis and no warranty as to their suitability for any particular purpose is either made or implied. BRT Systems Pte Ltd (BRTSys) will not accept any claim for damages howsoever arising as a result of use or failure of this product. Your statutory rights are not affected. This product or any variant of it is not intended for use in any medical appliance, device, or System in which the failure of the product might reasonably be expected to result in personal injury. This document provides preliminary information that may be subject to change without notice. No freedom to use patents or other intellectual property rights is implied by the publication of this document. BRT Systems Pte Ltd, 1 Tai Seng Avenue, Tower A, #03-01 Singapore 536464. Singapore Registered Company Number: 202220043R.

## 2 Part Numbers / Ordering Information

Part Number	Description
MC-0102-01A	Modbus 4CH Solid State Relay
MA-0102-01A	Modbus RS485-RJ11 Cable (30cm)
LA-1201-01A	LDSBus DIN Rail Mount Set

**Table 1 - Part Numbers / Ordering Information**

## **Table of Contents**

<b>1</b>	<b>Introduction .....</b>	<b>1</b>
1.1	Features .....	1
<b>2</b>	<b>Part Numbers / Ordering Information .....</b>	<b>2</b>
<b>3</b>	<b>Specifications .....</b>	<b>5</b>
<b>4</b>	<b>FCC Compliance Statement.....</b>	<b>6</b>
<b>5</b>	<b>Hardware Features .....</b>	<b>7</b>
<b>6</b>	<b>Sensor Configuration and Installation .....</b>	<b>9</b>
6.1	Connection Diagram for Standard Modbus Power Supply ....	9
6.2	RS485-RJ11 Cable(30cm) .....	10
<b>7</b>	<b>Mounting Instructions .....</b>	<b>11</b>
7.1	Flush Mount.....	11
7.2	DIN Rail Mount.....	11
<b>8</b>	<b>Terminal Wiring Instruction SSR Channel.....</b>	<b>12</b>
8.1	Connection and Wire .....	12
8.2	Setup.....	13
<b>9</b>	<b>Modbus Registers .....</b>	<b>14</b>
<b>10</b>	<b>Mechanical Dimensions .....</b>	<b>16</b>
<b>11</b>	<b>System Status LED Indicators.....</b>	<b>17</b>
<b>12</b>	<b>Relay Channel Status LED Indicators.....</b>	<b>18</b>
<b>13</b>	<b>Contact Information .....</b>	<b>19</b>
	<b>Appendix A – References .....</b>	<b>20</b>
	Document References .....	20
	Acronyms and Abbreviations.....	20
	<b>Appendix B – List of Figures and Tables.....</b>	<b>21</b>
	List of Figures .....	21
	List of Tables.....	21

## **Appendix C – Revision History ..... 22**

### 3 Specifications

<b>Features</b>	Interface	RS485 Modbus RTU
	System Status Indicator	1x RGB LED
	Relay Status Indicator	2x RG LEDs
	Power Indicator	1x Green LED
	Mounting	Flush Mount DIN-Rail Mount
<b>Power</b>	Modbus Voltage	9-24V DC Bus Power
	Device Input Voltage	5V DC
	Operating Power	Typ:271mW Max:421mW
<b>Relay</b>	Number of SSR Channel	4
	Relay Type	AC Solid State Switch, dual power SCR thyristor outputs, Zero-Cross Detection
	Contact arrangement	Solid State Switch
	Rated voltage	20VAC~ 240VAC
	Max. switching voltage	240VAC
	Rated power	1.80A @240VAC / 440W @240VAC
	Load continuous current	1.80A
<b>Physical Characteristics</b>	Maximum Surge Current	30A, t<16ms
	Colour	White
	Housing	Polycarbonate
	Dimension	L138.2mm x W76.0mm x H31.9mm
<b>Environmental Limits</b>	Operating Temperature	0 to 70°C
	Storage Temperature	-20 to 85°C
	Ambient Relative Humidity	5 to 95% (non-condensing)
<b>Package Contents</b>	Device	1x Modbus 4CH Solid State Relay
	Wire Assembly	1x Modbus RS485-RJ11 Cable(30cm)
<b>Optional</b>	Mounting Accessories	1x LDSBus DIN Rail Mount Set

**Table 2 - Modbus 4CH Solid State Relay Specifications**

## 4 FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) These devices may not cause harmful interference, and
- (2) These devices must accept any interference received, including interference that may cause undesired operation.

**NOTE:** The equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF exposure guidelines, at least 20cm of separation distance between the device and the user's body must be always maintained.

### FCC Radiation Exposure Statement

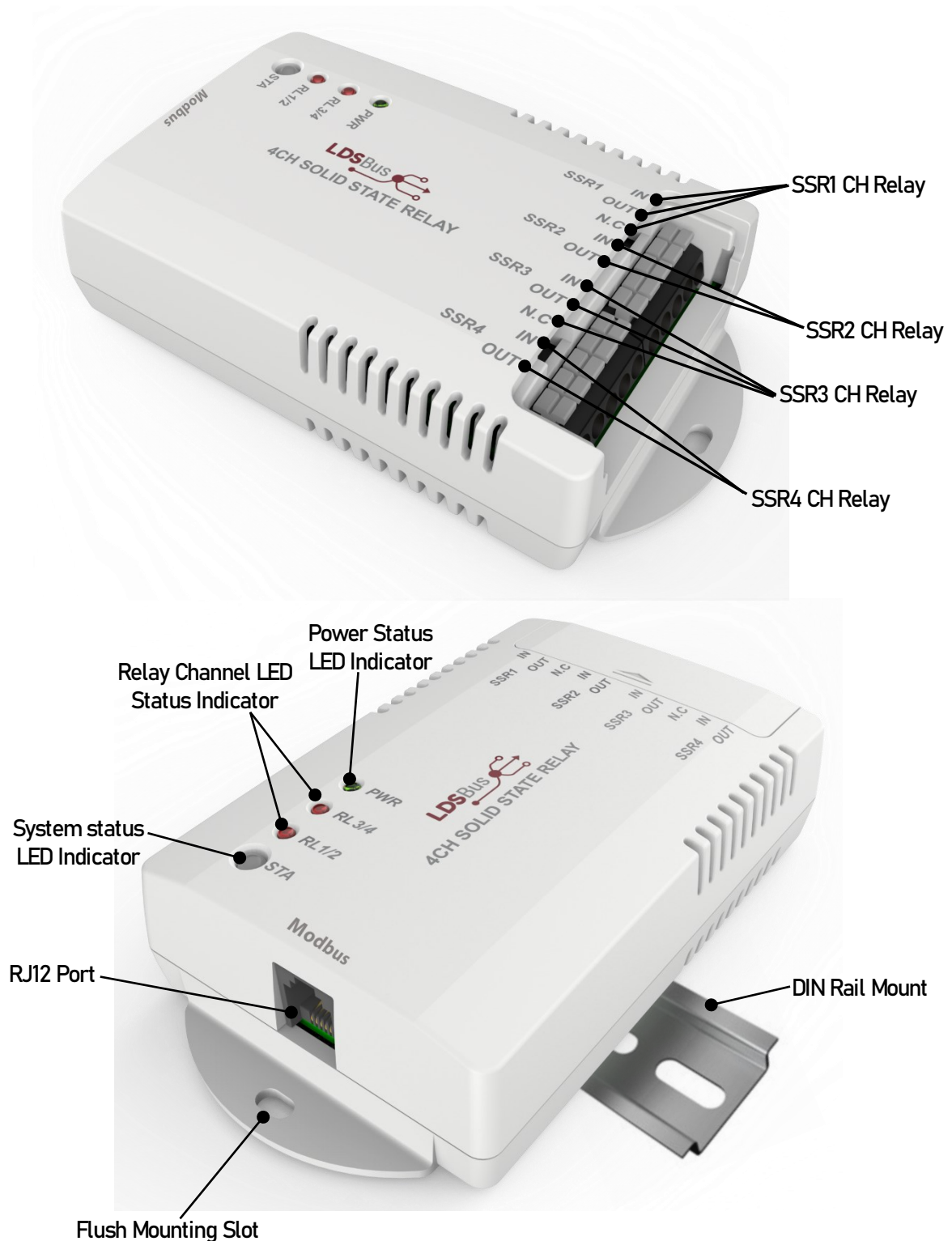
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with the instructions provided, and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

### Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



## 5 Hardware Features



**Figure 1 - Modbus 4CH Solid State Relay Hardware Features**

Function	Labels	Description
SSR1 CH Relay	IN	Solid State Relay Channel 1 Input
	OUT	Solid State Relay Channel 1 Output
	NC	No Connection
SSR2 CH Relay	IN	Solid State Relay Channel 2 Input
	OUT	Solid State Relay Channel 2 Output
SSR3 CH Relay	IN	Solid State Relay Channel 3 Input
	OUT	Solid State Relay Channel 3 Output
	NC	No Connection
SSR4 CH Relay	IN	Solid State Relay Channel 4 Input
	OUT	Solid State Relay Channel 4 Output
Power Status LED Indicator	PWR	Power status LED
Relay Channel LED Status Indicator	RL 1/2	Solid State Relay 1 & 2 status LED
	RL 3/4	Solid State Relay 3 & 4 status LED. Refer to section 12 for more details
System Status LED Indicator	STA	Modbus status LED. Refer to section 11 for more details
RJ12 Port	Modbus	Modbus data and power interface port

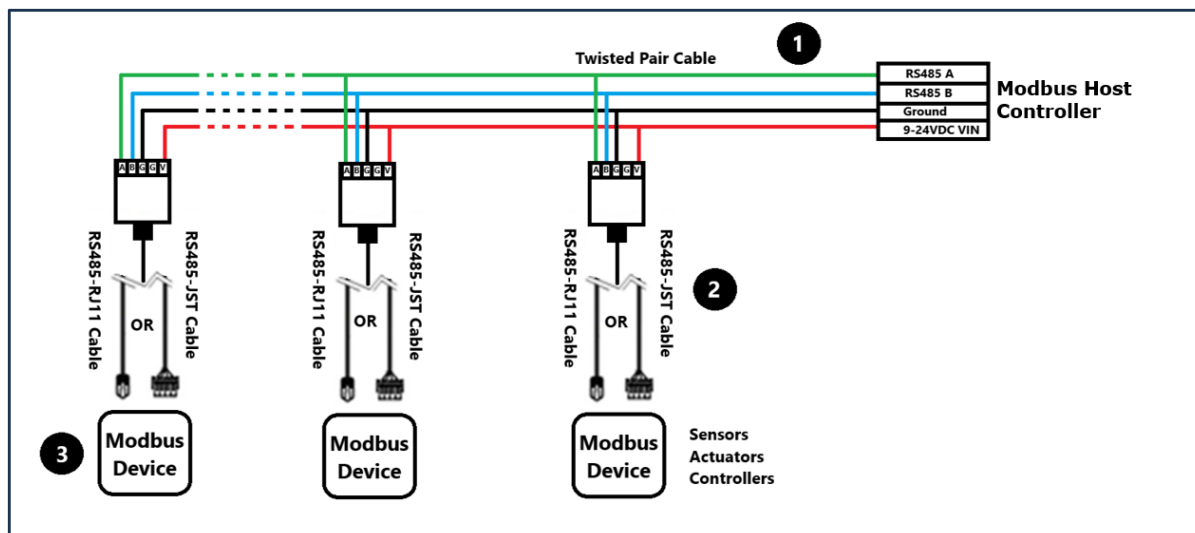
**Table 3 - Hardware Labels & Description**



## 6 Sensor Configuration and Installation

Please visit <https://brtsys.com/resources/software/utility-tools> to access the Modbus Configuration Utility guide on how to configure the device name, device address and termination settings before using it for your specific application.

### 6.1 Connection Diagram for Standard Modbus Power Supply

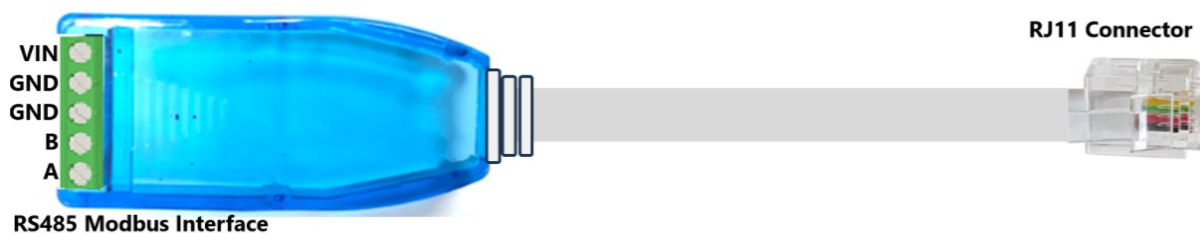


**Figure 2 - Connection Diagram for Standard Modbus Power Supply**

#### Setup Instructions:

1. Use a Cat5e/Cat6e RJ45 Twisted Pair Cable to connect the Modbus controller (Host) to the network for RS485 communication and power.
2. Connect each Modbus device to the network using either an RS485-JST cable or an RS485-RJ11 cable, as provided with the device.
3. BRTSys Modbus devices have built-in bus termination resistors. These resistors can be enabled or disabled by using the BRTSys [Modbus Configuration Utility](#). When installing the device as the last device on the bus, these terminations may be used to terminate the bus.

## 6.2 RS485-RJ11 Cable(30cm)



**Figure 3 - RS485-JST Cable(30cm)**

PIN Legend	Function
VIN	Modbus Input Voltage 9-24VDC
GND	Ground
GND	Ground
B	RS485-B
A	RS485-A

**Table 4 - RS485-RJ11 Cable(30cm) Pin Configuration**

## 7 Mounting Instructions

### 7.1 Flush Mount

The Modbus 4CH Solid State Relay can be flush mounted directly on a wall or any flat surface using 2 M3.5\*16mm (thread) screws.



**Figure 4 - Modbus 4CH Solid State Relay Flush Mount**

### 7.2 DIN Rail Mount

The Modbus 4CH Solid State Relay can be mounted on a DIN Rail using the Modbus DIN Rail Mount set. This set is optional and includes the bracket and mounting screws.

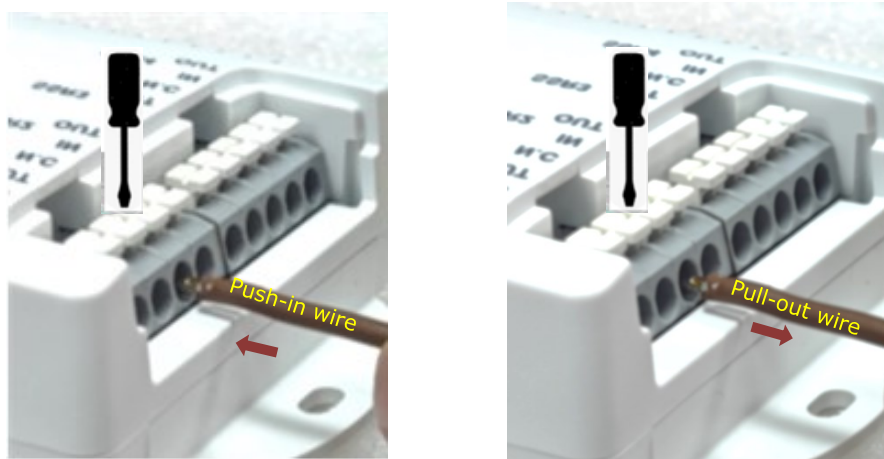


**Figure 5 - Modbus 4CH Solid State Relay DIN Rail Mount**

## 8 Terminal Wiring Instruction SSR Channel

### 8.1 Connection and Wire

Connections are made with Push-in CAGE CLAMP technology. If using solid conductor wire / clamp with insulation ferrule, the stripped conductor is easily inserted into the clamp until it hits the backstop without the need for a screwdriver. If you use soft conductor wire, use a flat head screwdriver to press down the push button and push in the wire, as shown, until it hits the backstop. To remove the conductor wire from its connector, use a flat head screwdriver to press down the push button and pull out the wire as shown in Figure 6.



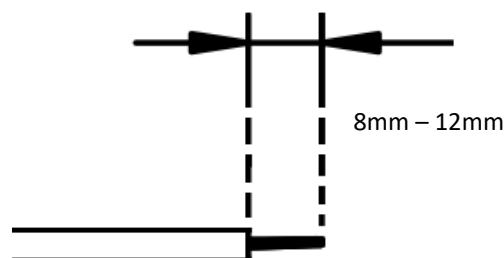
**Figure 6 - Terminal Wiring on SSR Channel (Push-in wire & Pull-out wire)**

Table 5 provides a list of American Wire Gauges (AWGs) that can be used in Terminal Blocks.

Conductor Type	Wire diameter/AWG
Solid conductor	0.25~2.5mm <sup>2</sup> /20~12 AWG
Stranded conductor	0.25~2.5mm <sup>2</sup> /20~12 AWG
Stranded conductor; with insulated ferrule	0.25~1.5mm <sup>2</sup>

**Table 5 - AWG to use in Terminal Block**

As shown in Figure 7, the wire strip may be 8mm to 12mm long. For safety, ensure that the striped conductor is always fully inserted, and no part of the conducting surface is exposed.



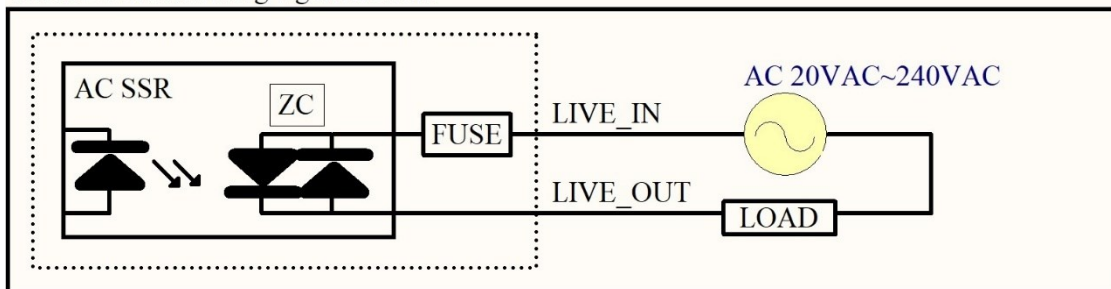
**Figure 7 - Wire Strip Length**

## 8.2 Setup

### **WARNING:**

Please ensure that the power to the AC load device is turned off before initiating the setup process to prevent any potential hazards. Prioritize safety by disconnecting power sources before proceeding with installation or configuration.

An AC SSR switching a generic load



Consider the Modbus 4CH Solid State Relay, Channel 1, as an illustration. The Modbus 4CH Solid State Relay is designed to facilitate the control of AC loads, capable of managing a maximum load of 240VAC/1.80A per channel. Provided below are recommended wiring configurations and wire specifications for optimal usage.

The following is the connection diagram:



Use AWG 20~12; A Brown wire indicates that it comes from an AC Source line

→ Connect to SSR 'IN'

Use AWG 20~12; A Brown wire indicates that it comes to an AC load line

→ Connect to SSR 'OUT'

## 9 Modbus Registers

Parameter	Starting Address	Quantity of Registers	Supported Function Code	Parameter Range and Description	Default
<b>Address<sup>(1)</sup></b>	0000H	1	0x03/0x10	1 to 126	126
<b>RS485 Termination<sup>(1)</sup></b>	0001H	1	0x03/0x10	0 - Termination OFF 1 - Termination ON	Termination OFF
<b>Baud Rate<sup>(1)</sup></b>	0002H	1	0x03/0x10	0 - 1200 bps 1 - 2400 bps 2 - 4800 bps 3 - 9600 bps 4 - 19200 bps 5 - 38400 bps 6 - 115200 bps	9600 bps
<b>Parity<sup>(1)</sup></b>	0003H	1	0x03/0x10	0 - None 1 - Odd 2 - Even	Even
<b>Status LED Enable<sup>(1)</sup></b>	0004H	1	0x03/0x10	0 - LED OFF 1 - LED ON	LED ON
<b>RESERVED</b>	0005H	1	N/A	N/A	N/A
<b>REG_SSR1_CONTROL</b>	0006H	1	0x03/0x10	SSR 1 control 0 - Deactivate 1 - Activate	0x00FF
<b>REG_SSR1_MODE</b>	0007H	1	0x03/0x10	SSR 1 mode 0 - Level Mode 1 - Pulse Mode	0x0000 (Level Mode)
<b>RESERVED</b>	0008H	1	N/A	N/A	N/A
<b>REG_SSR1_DEACTIVATION_MODE</b>	0009H	1	0x03/0x10	Deactivation mode for SSR 1 0 - Deactivation None 1 - Immediate 2 - Immediate After T <sub>1</sub> <sup>(2)</sup>	0x0000 (Deactivation None)
<b>REG_SSR1_T1</b>	000AH	1	0x03/0x10	SSR 1 timing T <sub>1</sub> <sup>(2)</sup>	0x0000 (0 Second)
<b>REG_SSR1_T2</b>	000BH	1	0x03/0x10	SSR 1 timing T <sub>2</sub> <sup>(3)</sup>	0x0000 (0 Second)
<b>REG_SSR1_NO_OF_CYCLES</b>	000CH	1	0x03/0x10	Number of cycles for SSR 1 (write 1 always)	1
<b>REG_SSR2_CONTROL</b>	000DH	1	0x03/0x10	SSR 2 control 0 - Deactivate 1 - Activate	0x00FF
<b>REG_SSR2_MODE</b>	000EH	1	0x03/0x10	SSR 2 mode 0 - Level Mode 1 - Pulse Mode	0x0000 (Level Mode)
<b>RESERVED</b>	000FH	1	N/A	Reserved	N/A
<b>REG_SSR2_DEACTIVATION_MODE</b>	0010H	1	0x03/0x10	Deactivation mode for SSR 2 0 - Deactivation None 1 - Immediate 2 - Immediate After T <sub>1</sub> <sup>(2)</sup>	0x0000 (Deactivation None)
<b>REG_SSR2_T1</b>	0011H	1	0x03/0x10	SSR 2 timing T <sub>1</sub> <sup>(2)</sup>	0x0000 (0 Second)
<b>REG_SSR2_T2</b>	0012H	1	0x03/0x10	SSR 2 timing T <sub>2</sub> <sup>(3)</sup>	0x0000 (0 Second)
<b>REG_SSR2_NO_OF_CYCLES</b>	0013H	1	0x03/0x10	Number of cycles for SSR 2 (write 1 always)	1
<b>REG_SSR3_CONTROL</b>	0014H	1	0x03/0x10	SSR 3 control 0 - Deactivate 1 - Activate	0x00FF
<b>REG_SSR3_MODE</b>	0015H	1	0x03/0x10	SSR 3 mode 0 - Level Mode	0x0000 (Level Mode)

				1 – Pulse Mode	
<b>RESERVED</b>	0016H	1	N/A	N/A	N/A
<b>REG_SSR3_DEACTIVATION_MODE</b>	0017H	1	0x03/0x10	Deactivation mode for SSR 3 0 - Deactivation None 1 - Immediate 2 – Immediate After T <sub>1</sub> <sup>(2)</sup>	0x0000 (Deactivation None)
<b>REG_SSR3_T1</b>	0018H	1	0x03/0x10	SSR 3 timing T <sub>1</sub> <sup>(2)</sup>	0x0000 (0 Second)
<b>REG_SSR3_T2</b>	0019H	1	0x03/0x10	SSR 3 timing T <sub>2</sub> <sup>(3)</sup>	0x0000 (0 Second)
<b>REG_SSR3_NO_OF_CYCLES</b>	001AH	1	0x03/0x10	Number of cycles for SSR 3 (write 1 always)	1
<b>REG_SSR4_CONTROL</b>	001BH	1	0x03/0x10	SSR 4 control 0 - Deactivate 1 - Activate	0x00FF
<b>REG_SSR4_MODE</b>	001CH	1	0x03/0x10	SSR 4 mode 0 - Level Mode 1 - Pulse Mode	0x0000 (Level Mode)
<b>RESERVED</b>	001DH	1	N/A	N/A	N/A
<b>REG_SSR4_DEACTIVATION_MODE</b>	001EH	1	0x03/0x10	Deactivation mode for SSR 4 0 - Deactivation None 1 - Immediate 2 – Immediate After T <sub>1</sub> <sup>(2)</sup>	0x0000 (Deactivation None)
<b>REG_SSR4_T1</b>	001FH	1	0x03/0x10	SSR 4 timing T <sub>1</sub> <sup>(2)</sup>	0x0000 (0 Second)
<b>REG_SSR4_T2</b>	0020H	1	0x03/0x10	SSR 4 timing T <sub>2</sub> <sup>(3)</sup>	0x0000 (0 Second)
<b>REG_SSR4_NO_OF_CYCLES</b>	0021H	1	0x03/0x10	Number of cycles for SSR 4 (write 1 always)	1
<b>Device UUID</b>	0026H	8	0x03	MCxxxxxxxxxxxxyy where x is ASCII character and yy is 16-bit running number	N/A
<b>Device Firmware Version</b>	002EH	1	0x03	0xXXMN XX – Not concerned M – Major N – Minor	N/A
<b>Device Part Number</b>	002FH	1	0x03	Device ID	0x4002
<b>Reserved</b>	0030H	N/A	N/A	Reserved	N/A
<b>SSR CH1_CH2_CH3_CH4_STATUS</b>	0031H	1	0x03	SSR channel 1, 2, 3 and 4 statuses	N/A
<b>SSR BOARD TEMPERATURE</b>	0032H	1	0x03	Board temperature -- 5500 to 12500 (-55 to 125 in degrees)	N/A
<b>Reset</b>	0150H	1	0x06	Write 1 to reset	N/A
<b>Reserved</b>	0151H	N/A	N/A	Reserved	N/A
<b>Identify</b>	0152H	1	0x06	Write 1 to start blinking the device @1Hz for 10 seconds	N/A

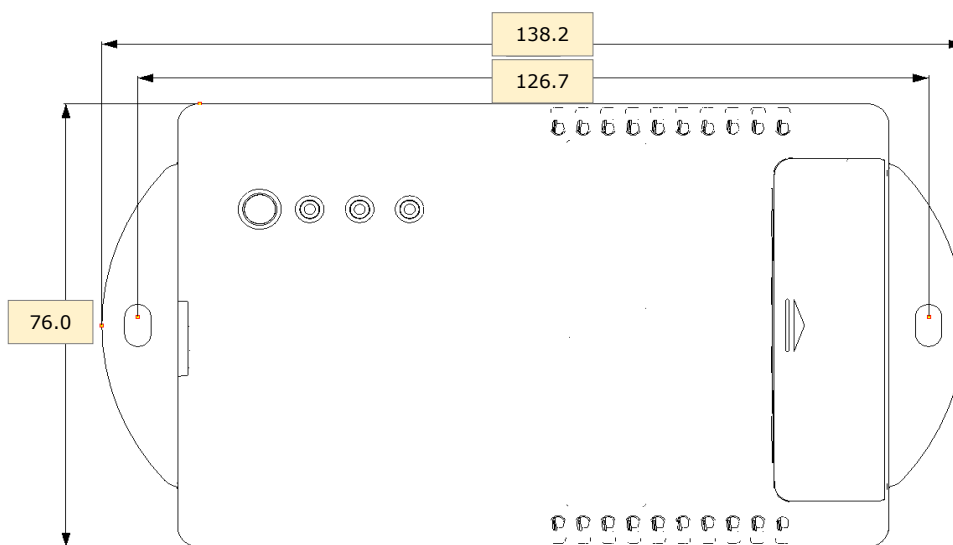
**Table 6 - Modbus Registers**

<sup>(1)</sup>This indicates that any updates to these communication/status register(s) will only take effect after the device has been rebooted.

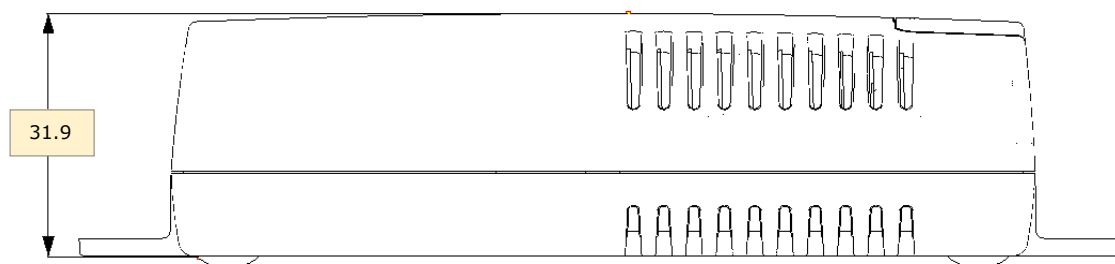
<sup>(2)</sup>T<sub>1</sub> – Enabled duration of the control signal in pulse mode

<sup>(3)</sup>T<sub>2</sub> – Disabled duration of the control signal in pulse mode

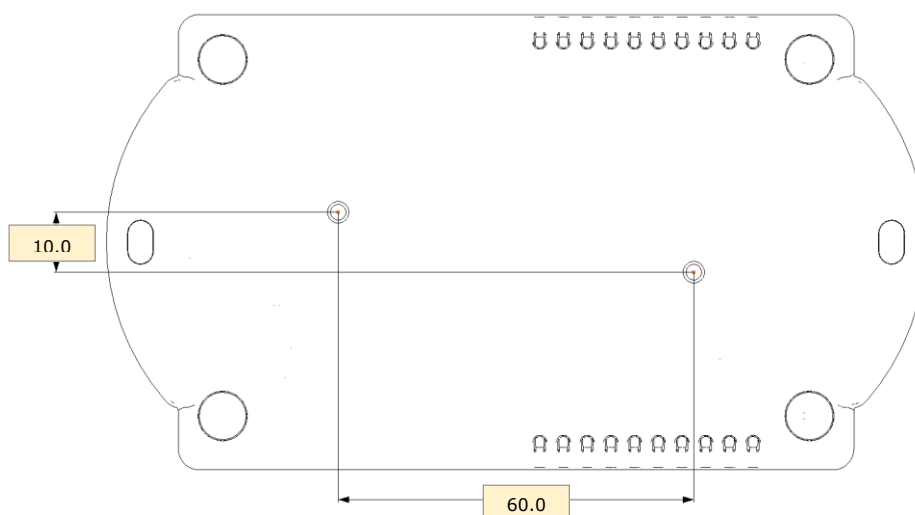
## 10 Mechanical Dimensions



**Figure 8 - Modbus 4CH Solid State Relay Dimension – Top View**



**Figure 9 - Modbus 4CH Solid State Relay Dimension – Side View**







**Figure 10 - Modbus 4CH Solid State Relay Dimension – Bottom View**

**Note:** All dimensions are in millimeters.



## 11 System Status LED Indicators

Device Status	LED Color		Flashing Frequency	Description
Termination ON	BLUE		Steady – Non- flashing	
Termination OFF	GREEN		Steady – Non- flashing	
Device Configuration Error	YELLOW		Steady – Non- flashing	Device configuration error
Communication	RED/GREEN/ BLUE/YELLOW	-	Blink twice (Short blink)	Device in communication
Firmware update	YELLOW		Steady – Non- flashing	Device firmware update.










**Table 7 - System Status LED Indicators**

**Note:**

1. For reliable communication, ensure that the power supply and the RS485 termination settings are correct.
2. Ensure that the Modbus address and baud rate are configured correctly before deployment.

## 12 Relay Channel Status LED Indicators

There are 2 channel status LEDs, and these LEDs are dual-color LEDs. RL1/2 indicates the status of relay channels 1 and 2 and RL3/4 indicates the status of channels 3 and 4.

Device Status	LED Color		SSR1	SSR2	Description
RL1/2	OFF		OFF	OFF	SSR1 and SSR2 both are Inactive
	Red		ON	OFF	SSR1 Active and SSR2 Inactive
	Green		OFF	ON	SSR2 Active and SSR1 Inactive
	Yellow		ON	ON	SSR1 and SSR2 both are Active
			SSR3	SSR4	
RL3/4	OFF		OFF	OFF	SSR3 and SSR4 both are Inactive
	Red		ON	OFF	SSR3 Active and SSR4 Inactive
	Green		OFF	ON	SSR4 Active and SSR3 Inactive
	Yellow		ON	ON	SSR3 and SSR4 both are Active
PWRGreen	Green		-	-	SSR All Channel Power Enabled

**Table 8 - Relay Channel Status LED Indicators**

## 13 Contact Information

Refer to <https://brtsys.com/contact-us/> for contact information.

System and equipment manufacturers and designers are responsible to ensure that their systems, and any BRT Systems Pte Ltd (BRTSys) devices incorporated in their systems, meet all applicable safety, regulatory and system-level performance requirements. All application-related information in this document (including application descriptions, suggested BRTSys devices and other materials) is provided for reference only. While BRTSys has taken care to assure it is accurate, this information is subject to customer confirmation, and BRTSys disclaims all liability for system designs and for any applications assistance provided by BRTSys. Use of BRTSys devices in life support and/or safety applications is entirely at the user's risk, and the user agrees to defend, indemnify, and hold harmless BRTSys from any and all damages, claims, suits, or expense resulting from such use. This document is subject to change without notice. No freedom to use patents or other intellectual property rights is implied by the publication of this document. Neither the whole nor any part of the information contained in, or the product described in this document, may be adapted, or reproduced in any material or electronic form without the prior written consent of the copyright holder. BRT Systems Pte Ltd, 1 Tai Seng Avenue, Tower A, #03-01, Singapore 536464. Singapore Registered Company Number: 202220043R.

## Appendix A – References

### Document References

[Modbus Configuration Utility User Guide](#)

### Acronyms and Abbreviations

Terms	Description
AC	Alternating Current
AWG	American Wire Gauges
DC	Direct Current
IoT	Internet of Things
LED	Light Emitting Diode
SSR	Solid State Relay
4CH	4 Channels
RL1/RL2/RL3/RL4	Solid State Relay Channel 1/2/3/4
PWR	Power
N.C	No Connection

## **Appendix B – List of Figures and Tables**

### **List of Figures**

Figure 1 - Modbus 4CH Solid State Relay Hardware Features .....	7
Figure 2 - Connection Diagram for Standard Modbus Power Supply .....	9
Figure 3 - RS485-JST Cable(30cm) .....	10
Figure 4 - Modbus 4CH Solid State Relay Flush Mount .....	11
Figure 5 - Modbus 4CH Solid State Relay DIN Rail Mount .....	11
Figure 6 - Terminal Wiring on SSR Channel (Push-in wire & Pull-out wire).....	12
Figure 7 - Wire Strip Length .....	12
Figure 8 - Modbus 4CH Solid State Relay Dimension – Top View .....	16
Figure 9 - Modbus 4CH Solid State Relay Dimension – Side View .....	16
Figure 10 - Modbus 4CH Solid State Relay Dimension – Bottom View .....	16

### **List of Tables**

Table 1 - Part Numbers / Ordering Information .....	2
Table 2 - Modbus 4CH Solid State Relay Specifications .....	5
Table 3 - Hardware Labels & Description .....	8
Table 4 - RS485-RJ11 Cable(30cm) Pin Configuration .....	10
Table 5 - AWG to use in Terminal Block .....	12
Table 6 - Modbus Registers .....	15
Table 7 - System Status LED Indicators .....	17
Table 8 - Relay Channel Status LED Indicators.....	18

## Appendix C – Revision History

Document Title: Modbus 4CH Solid State Relay Datasheet

Document Reference No.: BRTSYS\_000161

Clearance No.: BRTSYS#095

Product Page: <https://brtsys.com/product-category/actuators/>

Document Feedback: [Send Feedback](#)

Revision	Changes	Date
Version 1.0	Initial Release	03-01-2025
Version 1.1	Updated release	22-05-2025
Version 1.2	Added a note (under Modbus Registers table) to highlight that that any updates to some of the communication/status register(s) will only take effect after the device has been rebooted.	09-07-2025