

S3303

16 Channels Isolated Open-collector Output Module

User's Manual



SHJ

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S3303 has total 16 channels isolated open-collector output. Output BUS is RS485 with surge protection, to reduce interference by serial port communication, the output is isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.

Highlights:

- Isolated open-collector output can drive power relay directly
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules via ISP through RS485 BUS.

Application:

- ✓ Remote data acquisition
- ✓ Process monitoring
- ✓ Industrial process control
- ✓ Energy management
- ✓ Supervisory control
- ✓ Security systems
- ✓ Laboratory automation
- ✓ Building automation
- ✓ Product testing
- ✓ Direct digital control

Technical data:

Output channel number-----	16
Output signal-----	open-collector
Output current-----	maximum 40mA
Output BUS-----	RS485 with Standard Modbus protocol
Output Protection-----	Lightning,static
Power input-----	9~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	0~70°C (32~158°F)
Storage-----	-20~85°C (-4~185°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31

Colour-----Ice Blue
 Size-----100*69*25 mm

Wiring diagram and description:

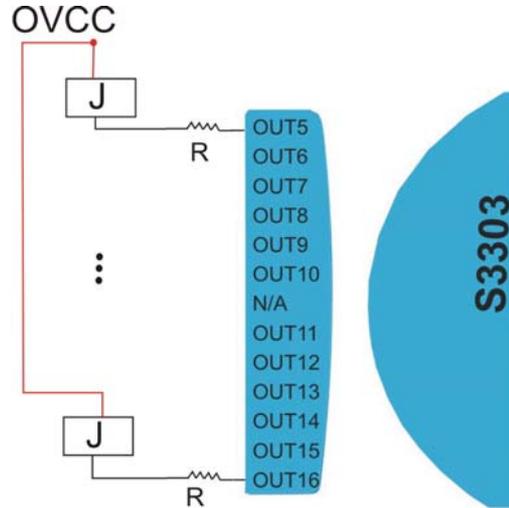


Figure 1 Output for driving relays

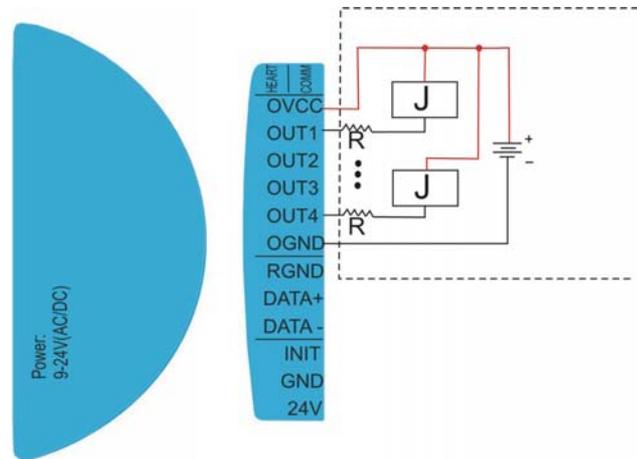


Figure 2 Output wiring,R is limited current resistor

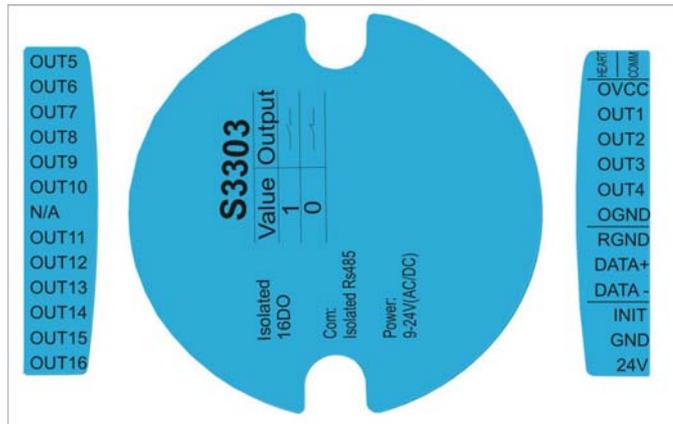


Figure 3 terminal definition

1、 Output wiring

OUT1~OUT16: Open-collector output channel 1 through 16

OVCC: Power source for output

OGND: Ground for output

2、 Power wiring

DC: 24V, positive end

GND, negative end

AC: 24V, hot line

GND, neutral line

3、 RS485 wiring

DATA+: connect to A end of RS485

DATA-: connect to B end of RS485

RGND: connect to earth if necessary

4、 Reset parameter to default

Put the jumper at INIT ,the following parameters back to default.

■ Address of device: 254

■ Baudrate:19200

5、 LEDs indication

Heart: Flashing when the system is working

Comm: Flashing when serial port communication is working

Modbus register list: Note: * means default value

Address	Bytes	Value range		Description	Property																		
		Min	Max																				
0-3	4	1	4294967295	Serial number,unique for each product	R																		
4-5	2	100	65535	Firmware version number	R																		
6	1	1	254	Device address	R/W																		
7	2	3303	3303	Product model	R																		
8	1	1	255	Hardware version	R																		
9	2	12	1152	Baudrate setting	R																		
				<table border="1"> <thead> <tr> <th>Value</th> <th>Buadrate</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>1200</td> </tr> <tr> <td>24</td> <td>2400</td> </tr> <tr> <td>48</td> <td>4800</td> </tr> <tr> <td>96</td> <td>9600</td> </tr> <tr> <td>192*</td> <td>19200</td> </tr> <tr> <td>384</td> <td>38400</td> </tr> <tr> <td>576</td> <td>57600</td> </tr> <tr> <td>1152</td> <td>115200</td> </tr> </tbody> </table>		Value	Buadrate	12	1200	24	2400	48	4800	96	9600	192*	19200	384	38400	576	57600	1152	115200
				Value		Buadrate																	
				12		1200																	
				24		2400																	
				48		4800																	
				96		9600																	
				192*		19200																	
				384		38400																	
576	57600																						
1152	115200																						
For example:write 96 to register 9 to set the baudrate 9600.																							
10-99	-	-	-	Reserved	-																		
100	2	0	65535	Open-collector output, 0 = active,1 = inactive.Bit0 correspond to channel 1,bit1 correspond to channel2,etc.	R/W																		
101	1	1	100	Respond delay for serial communication, the units is ms and default is 10ms	R/W																		