5V 1Channel Relay Module With Modbus RTU Input Optocoupler Isolation

Modbus RTU Command

Suppose the device address is 0xFF so return 00 10 00 00 00 01 02 00 FF EB 80 and the 9th btye is the devices address.

Turn ON CH_1 Relay(Normal Mode)

- Send: FF 05 00 00 FF 00 99 E4
- Return: FF 05 00 00 FF 00 99 E4
- The 3rd and 4th byte are relay addresses. So it can be 0x0000,0x0001,0x0002,0x0003
- The 5th and 6th byte are relay data .0xFF00 means turn ON relay and 0x0000 means turn OFF relay

Turn OFF CH_1 Relay(Normal Mode)

- Send: FF 05 00 00 00 00 D8 14
- Return: FF 05 00 00 00 00 D8 14

Turn ON All relays

- Send: FF 0F 00 00 00 08 01 FF 30 1D
- Return: FF 0F 00 00 00 08 41 D3

Turn OFF All relays

- Send: FF 0F 00 00 00 08 01 00 70 5D
- Return: FF 0F 00 00 00 08 41 D3

Set device address to 0x01

- Send: 00 10 00 00 00 01 02 00 01 6A 00
- Return: 00 10 00 00 00 01 02 00 01 6A 00
- **Note**: The 9th btye is the device address

Set device address to 0xFF

- Send: 00 10 00 00 00 01 02 00 FF EB 80
- Return: 00 10 00 00 00 01 02 00 FF EB 80

Read device address

- Send: 00 03 00 00 00 01 85 DB
- Return: 00 03 02 00 FF C5 C4
- **Note**: The 5th btye is the device address

Read relay status

- Send: FF 01 00 00 00 08 28 12
- Return: FF 01 01 01 A1 A0
- **Note**: The 4th means which one relay.0 means OFF and 1 means ON

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Read optocoupler input staturs

- Send: FF 02 00 00 00 08 6C 12
- Return: FF 02 01 01 51 A0
- **Note**: The 4th means which one input.0 means low level signal input and 1 means high level signal input

Set baud rate 4800bps

- Send: FF 10 03 E9 00 01 02 00 02 4A 0C
- Return: FF 10 03 E9 00 01 C5 A7
- **Note**: The 9th btye is baud rate value.0x02 is 4800bps.0x03 is 9600bps.0x04 is 19200bps

Set baud rate 9600bps

- Send: FF 10 03 E9 00 01 02 00 03 8B CC
- Return: FF 10 03 E9 00 01 C5 A7

Set baud rate 19200bps

- Send: FF 10 03 E9 00 01 02 00 04 CA 0E
- Return: FF 10 03 E9 00 01 C5 A7

Turn ON CH_1 Relay(2S Flashing Mode)

- Send: FF 10 00 03 00 02 04 00 04 00 14 C5 9F
- Return: FF 10 00 03 00 02 A4 16
- **Note**: The 3rd and 4th byte are relay addresses.So CH1~CH4 can be 0x0003,0x0008,0x000D,0x0012 The 10th and 11th byte are delay time in second.The minimum delay time is 0.1s.Relay will OFF after delay time.So the delay time in this command is : 0x0014*0.1=2S

Turn OFF CH_1 Relay(3S Flashing Mode)

- Send: FF 10 00 03 00 02 04 00 02 00 1E A5 99
- Return: FF 10 00 03 00 02 A4 16
- **Note**: Relay will ON after delay time.So the delay time in this command is : 0x001E*0.1=3S

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