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EN: This Datasheet is presented by the manufacturer.

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REL485-4CH-12V

Baud rate: 9600,8,1,none

Set device address:

Set device address to 0x01	00 10 00 00 00 01 02 00 01 6A 00
Set device address to 0x02	00 10 00 00 00 01 02 00 02 2A 01
Set device address to 0x03	00 10 00 00 00 01 02 00 03 EB C1

Command format:

Example (Relay 0 ON)	01 05 00 00 FF 00 8C 3A
Byte1 (0x01)	Device address
Byte2 (0x05)	Function code
Byte 3,4 (0x00 0x00)	Register address
Byte 5,6 (0xFF 0x00)	Register data
Byte 7,8 (0x8C 0x3A)	CRC check

Turn ON/OFF relays:

Turn ON Relay 0	01 05 00 00 FF 00 8C 3A
Turn OFF Relay 0	01 05 00 00 00 00 CD CA
Turn ON Relay 1	01 05 00 00 FF 00 DD FA
Turn OFF Relay 1	01 05 00 00 00 00 9C 0A
Turn ON Relay 2	01 05 00 00 FF 00 2D FA
Turn OFF Relay 2	01 05 00 00 00 00 6C 0A
Turn ON Relay 3	01 05 00 00 FF 00 7C 3A
Turn OFF Relay 3	01 05 00 00 00 00 3D CA

Read relays status:

Read all relay status	01 01 00 00 00 08 3D CC
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Toggle Relay:

Toggle Relay 0	01 05 00 00 55 00 F2 9A
Toggle Relay 1	01 05 00 01 55 00 A3 5A
Toggle Relay 2	01 05 00 02 55 00 53 5A
Toggle Relay 3	01 05 00 03 55 00 02 9A
Toggle All	01 05 00 00 5A 00 F7 6A

Read Inputs:

Read inputs	01 02 00 00 00 08 79 CC
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Examples:

Set the 2nd relay ON (1st relay start address is 0x00 and the 2nd relay is 0x01!):

The screenshot shows the QModBus interface with the following configuration:

- Modbus Request: Slave ID: 1, Function code: Write Single Coil (0x05), Start address: 1, Num of coils: 8.
- Registers table:

Data type	Register	Data
Coil (binary)	1	1

A red arrow points to the 'Data' column for Register 1, with the text: **Relay ON: Change this value to 1**
RelayOFF: Change this value to 0

Bus Monitor shows raw data received: 01 05 00 01 FF 00 dd Fa

ModBus requests/responses table:

I/O	Slave ID	unction cod	Start address	Num of coils	CRC
1 Req >>	1	5	1	8	0000
2 << Resp	1	5	1	1	ddfa

Read relay status:

The screenshot shows the QModBus interface with the following configuration:

- Modbus Request: Slave ID: 1, Function code: Read Coils (0x01), Start address: 0, Num of coils: 8.
- Registers table:

Data type	Register	Data
Coil (binary)	0	0
Coil (binary)	1	1
Coil (binary)	2	0
Coil (binary)	3	1
Coil (binary)	4	0
Coil (binary)	5	0
Coil (binary)	6	0
Coil (binary)	7	0

Red text annotations next to the registers table:

- 1st Relay OFF
- 2nd Relay ON
- 3rd Relay OFF
- 4th Relay ON

Bus Monitor shows raw data received: 01 01 01 0a d1 8f

ModBus requests/responses table:

I/O	Slave ID	unction cod	Start address	Num of coils	CRC
1 Req >>	1	1	0	8	0000
2 << Resp	1	1	0	8	d18f

Read Inputs states (for activation it must be pulled to GND, in the default state it is pulled up to 3.3V):

The screenshot shows the QModBus interface with the following configuration:

- Modbus Request: Slave ID: 1, Function code: Read Discrete Inputs (0x02), Start address: 0, Num of coils: 8.
- Registers table:

Data type	Register	Data
Discrete Input (binary)	0	1
Discrete Input (binary)	1	1
Discrete Input (binary)	2	0
Discrete Input (binary)	3	1
Discrete Input (binary)	4	0
Discrete Input (binary)	5	0
Discrete Input (binary)	6	0
Discrete Input (binary)	7	0

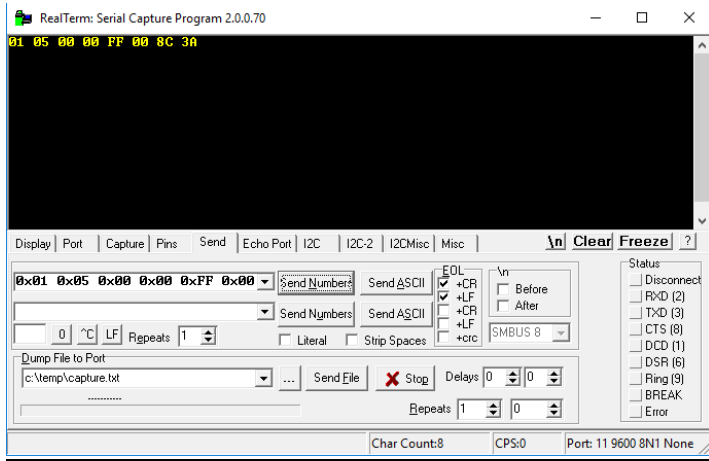
A red arrow points to the 'Data' column for Register 3, with the text: **IN3 pull down to GND**

Bus Monitor shows raw data received: 01 02 01 0b e0 4f

ModBus requests/responses table:

I/O	Slave ID	unction cod	Start address	Num of coils	CRC
1 Req >>	1	2	0	8	0000
2 << Resp	1	2	0	8	e04f

Turn ON the 1st relay in Realterm:



Copyable formats:

Set device address:

Set device address to 0x01	0x00 0x10 0x00 0x00 0x00 0x01 0x02 0x00 0x01 0x6A 0x00
Set device address to 0x02	0x00 0x10 0x00 0x00 0x00 0x01 0x02 0x00 0x02 0x2A 0x01
Set device address to 0x03	0x00 0x10 0x00 0x00 0x00 0x01 0x02 0x00 0x03 0xEB 0xC1

Command format:

Example (Relay 0 ON)	0x01 0x05 0x00 0x00 0xFF 0x00 0x8C 0x3A
Byte1 (0x01)	Device address
Byte2 (0x05)	Function code
Byte 3,4 (0x00 0x00)	Register address
Byte 5,6 (0xFF 0x00)	Register data
Byte 7,8 (0x8C 0x3A)	CRC check

Turn ON/OFF relays:

Turn ON Relay 0	0x01 0x05 0x00 0x00 0xFF 0x00 0x8C 0x3A
Turn OFF Relay 0	0x01 0x05 0x00 0x00 0x00 0x00 0xCD 0xCA
Turn ON Relay 1	0x01 0x05 0x00 0x00 0xFF 0x00 0xDD 0xFA
Turn OFF Relay 1	0x01 0x05 0x00 0x00 0x00 0x00 0x9C 0x0A
Turn ON Relay 2	0x01 0x05 0x00 0x00 0xFF 0x00 0x2D 0xFA
Turn OFF Relay 2	0x01 0x05 0x00 0x00 0x00 0x00 0x6C 0x0A
Turn ON Relay 3	0x01 0x05 0x00 0x00 0xFF 0x00 0x7C 0x3A
Turn OFF Relay 3	0x01 0x05 0x00 0x00 0x00 0x00 0x3D 0xCA

Read relays status:

Read all relay status	0x01 0x01 0x00 0x00 0x00 0x08 0x3D 0xCC
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Toggle Relay:

Toggle Relay 0	0x01 0x05 0x00 0x00 0x55 0x00 0xF2 0x9A
Toggle Relay 1	0x01 0x05 0x00 0x01 0x55 0x00 0xA3 0x5A
Toggle Relay 2	0x01 0x05 0x00 0x02 0x55 0x00 0x53 0x5A
Toggle Relay 3	0x01 0x05 0x00 0x03 0x55 0x00 0x02 0x9A
Toggle All	0x01 0x05 0x00 0x00 0x5A 0x00 0xF7 0x6A

Read Inputs:

Read inputs	0x01 0x02 0x00 0x00 0x00 0x08 0x79 0xCC
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