**485 relay product description**



Hardware resources: 1. RS485 communication interface 2. TTL communication interface 3. 1 input 4. 1 output 5. One user LED indicator 6. One STM32F030F4 microcontroller 7 1 relay status indicator LED 10. Power terminal interface (12V powered by)



Modbus RTU command baud rate: 9600 8 NONE 1 Hexadecimal sending and hexadecimal receiving operation steps: 1. Software sets the communication baud rate 2. Set the address (the device address used for communication, the default address is 01) /\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ Note: Only connect one device, otherwise the address will be set. Set the address to: 01 00 10 00 00 00 01 02 00 01 6A 00// Change to 01. Set the address to: 02 00 10 00 00 00 01 02 00 02 2A 01// Change to 02. Set the address to: 03 00 10 00 00 00 01 02 00 03 EB C1// Modify to 03 to read the address 00 03 00 00 00 01 85 db returns: 00 03 02 00 01 44 44 //01 is the address /\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ The meaning of each byte: [ Address No. 1] //---------- ---------------------------------- Relay No. 1 is on: 01 05 00 01 01 00 9d 9a byte 1 : Address byte 2: Function byte 3 4: Register address byte 5 6: Register data byte 7 8: CRC check //================== ============================================[ Address No. 1] / /-------------------------------------------------- Relay No. 0 is on: 01 05 00 00 FF 00 8C 3A Relay No. 0 is closed: 01 05 00 00 00 00 CD CA //--------------------------- ------------------ Relay No. 1 is on: 01 05 00 01 FF 00 DD FA Relay No. 1 is off: 01 05 00 01 00 00 9C 0A //----- ----------------------------------------------- Relay No. 2 is on: 01 05 00 02 FF 00 2D FA relay No. 2 is closed: 01 05 00 02 00 00 6C 0A //---------------------------------- ---------- Relay No. 3 is on: 01 05 00 03 FF 00 7C 3A Relay No. 3 is off: 01 05 00 03 00 00 3D CA //------------- ---------------------------------- Relay No. 4 is on: 01 05 00 04 FF 00 CD FB Relay No. 4 is off: 01 05 00 04 00 00 8C 0B //------------------------------------------------ --Relay No. 5 is on: 01 05 00 05 FF 00 9C 3B Relay No. 5 is off: 01 05 00 05 00 00 DD CB //-------------------- ----------------------- Relay No. 6 is on: 01 05 00 06 FF 00 6C 3B Relay No. 6 is off: 01 05 00 06 00 00 2D CB / /--------------------------------------------- Relay No. 7 is on: 01 05 00 07 FF 00 3D FB Relay No. 7 is closed: 01 05 00 07 00 00 7C 0B //------------------------------- --------------- /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ Read all relay status: 01 01 00 00 00 01 FD CA /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ Get out of the way command: Description: Close immediately after opening, 100MS is a unit [1 represents 100MS] Address No. 1 : Relay No. 0 is open: 01 05 02 00 07 00 CE 42 //700MS = 7\*100MS = 700MS Relay No. 1 is open: 01 05 02 01 08 00 9A 72 //800MS returns: the same as sending the command . Address No. 2 : Relay No. 0 is open: 02 05 02 00 05 00 CF 11 //500MS Relay No. 1 is open: 02 05 02 01 06 00 9E 21 //600MS //================================================ ====================== All out: 01 0F 00 00 00 08 01 00 FE 95 all on: 01 0F 00 00 00 08 01 FF BE D5 /\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ Single flip command: Relay No. 0 flips: 01 05 00 00 55 00 F2 9A Relay No. 1 flips: 01 05 00 01 55 00 A3 5A Relay No. 2 flips: 01 05 00 02 55 00 53 5A Relay No. 3 flips: 01 05 00 03 55 00 02 9A Relay No. 4 flips: 01 05 00 04 55 00 B3 5B Relay No. 5 flips: 01 05 00 05 55 00 E2 9B No. 6 relay flip: 01 05 00 06 55 00 12 9B No. 7 relay flip: 01 05 00 07 55 00 43 5B all flip command: 01 05 00 00 5A 00 F7 6A /\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*/ Read all interface input status and send: 01 02 00 00 00 08 79 CC //Read 8 input status and return: 01 02 01 00 A1 88