

Description

Report Item / Suspicious Activity

1. Product Overview

- 1) Adapted sensor: 10K NTC
- 2) The NTC B value can be configured through the Modbus RUT protocol(default: B=3950)
- 3) resolution :0.1°C
- 4) measurement range: -20 ° C to + 120 ° C.
- 5) The module adopts RS485 modbus rtu standard communication
- 6) The communication format of this module can be set by software





2. Main technical parameters

Item	Parameter
Communication output	1. Communication protocol: <u>Modbus Rtu</u> 2. Interface type: RS485 communication, output interface has over-voltage and over-current dual protection design. 3. Baud rate: 4800bps, 9600bps, 19200bps, 38400bps, 57600bps, 115200bps 4. Check digit: no check 5. Stop bits: 1bit 6. Setting method: module address, baud rate can be set by software
Module size	Dimensions: 100*54*32mm
Working environment	Temperature: -20 ~ +60 ℃
Working power	1. Power supply voltage: DC12V-24V wide range power supply, with power polarity protection 2. Power consumption: less than 1W
Module net weight	100g

3 The interface definition

Terminal name	Explanation
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VCC	Positive input of external power supply
GND	Negative terminal of external power input
N1	NTC Channel 1
N2	NTC Channel 2
N3	NTC Channel 3
N4	NTC Channel 4
G	NTC End
A	RS485 signal A+
B	RS485 signal B-

4 Holding registers (function codes: 0x03H, 0x06H, 0x10H)

Address	Parameter	Length	Read/Write	MIN	MAX	Description
40001	Device address	2	Read/Write	1	247	1(default)
40002	Baud rate	2	Read/Write	0	6	0:4800 1:9600(default) 2:14400 3:19200 4:38400 5:57600 6:115200
40003	NTC B value	2	Read/Write	0		B=3950(default)
41025	Channel 1	2	Read	0		Channel 1 temperature
41026	Channel 2	2	Read	0		Channel 2 temperature
41027	Channel 3	2	Read	0		Channel 3 temperature
41028	Channel4	2	Read	0		Channel 4 temperature

NOTE: Resolution is 0.1 ,If register = 311, the temperature = 31.1°C (311/10)

Description of communication parameters (factory value): 9600, N, 8, 1, B=3950

Modbus Poll - Mbpoll1

File Edit Connection Setup Functions Display View Window Help

05 06 15 16 17 22

Tx = 146: Err = 69: ID = 1: F = 03: SR = 1000ms

Alias	00000
0	1
1	1
2	3950
3	
4	
5	
6	
7	
8	
9	

For Help, press F1.

Port 3: 9600-8-N-1

MODSCAN32 For OPTO22 - 工控技术交流...

文件(F) 连接设置(C) 配置(S) 查看(V) 窗口(W) 帮助(H)

无标题

Device Id: 1

Address: 0001

Length: 3

MODBUS Point Type: 03: HOLDING REGISTER

40001: <00001>

40002: <00001>

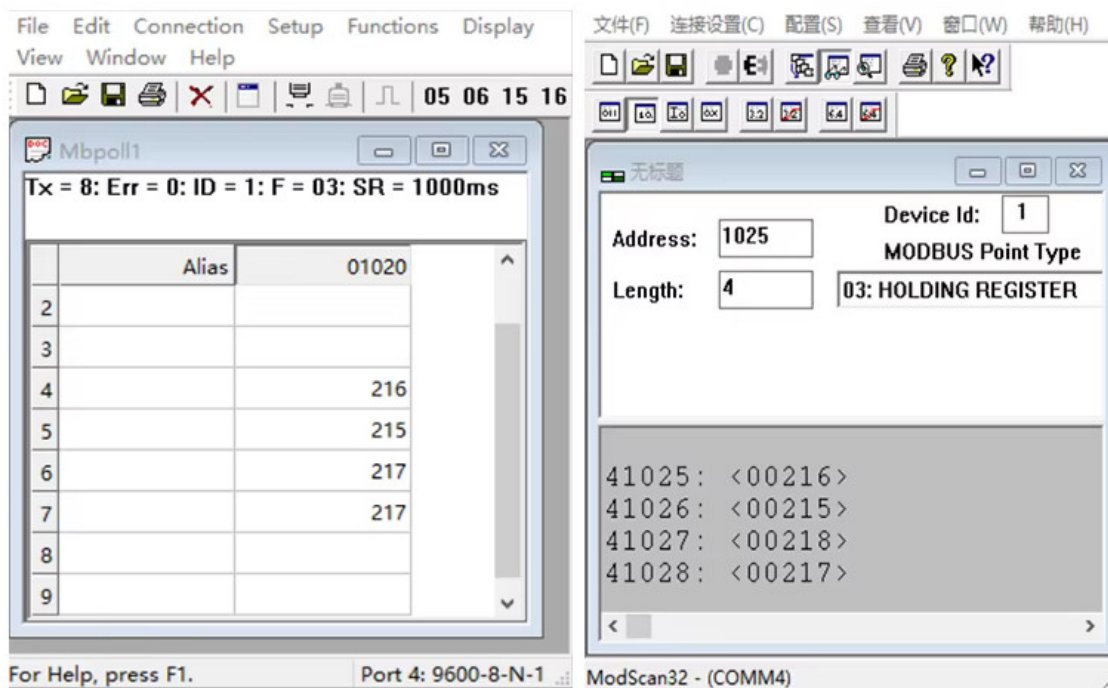
40003: <03950>

ModScan32 - (COMM3)

Read4-channel NTC

Modbus Poll - Mbpoll1

MODSCAN32 For OPTO22 - 工控技术交流...



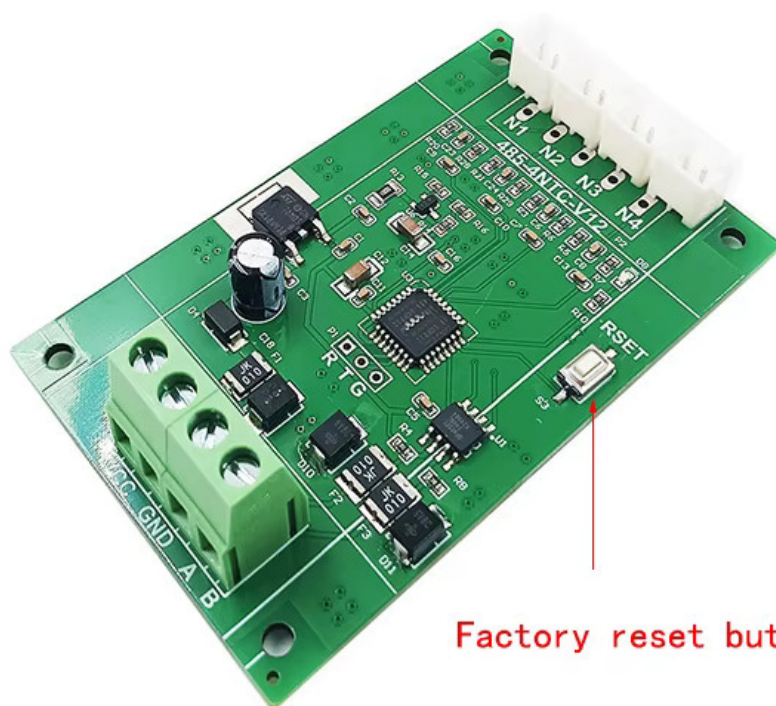
5 Restore factory settings

Press the restore factory button continuously for more than 5 seconds, The module will return to factory settings;

The communication parameters : 9600, N, 8, 1,

The device address : 1

NTC B=3950



Factory reset button

Package includes:

controller * 1

Power adapter NOT included.

NTC NOT included