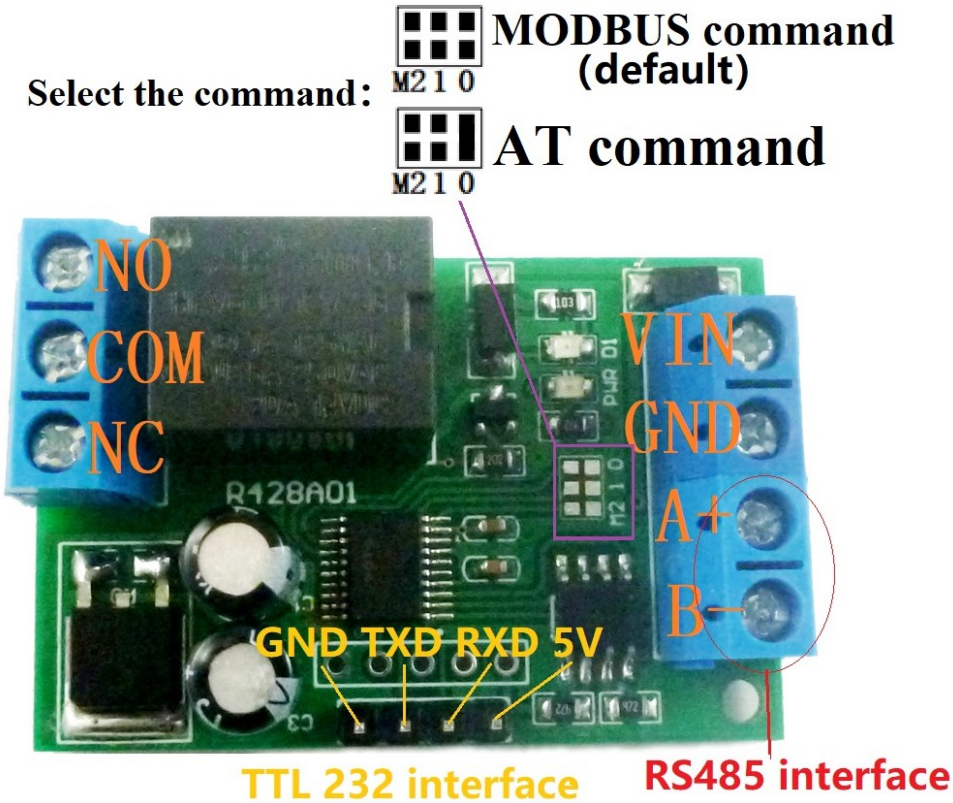
1 Channel RS485 Relay Manual

- 2CH RS485 Relay Serial HyperTerminal Enter(Usage 2-channel and 1-channel is the same):
  http://v.youku.com/v_show/id_XMTM0ODY4NzkxMg==.html
- 2CH RS485 Relay Modbus Poll Enter(Usage 2-channel and 1-channel is the same):
  http://v.youku.com/v_show/id_XMTM0ODY4OTg5Mg==.html

Features:

1: DC 12V power supply (voltage range 9-13V)
2: Standby current (all relays closed) 11-13MA, relay open 43MA
3: "open" "close" "Momentary" "Self-locking" "Interlock" "Delay" 6 Commands
4: Two instruction-control mode : AT command and MODBUS command
5: Under the AT command ,the maximum delay is 9999 seconds
Under the MODBUS command ,the maximum delay is 255 seconds
6 AT commands can be made serial HyperTerminal (serial assistant) Enter;
MODBUS commands can be made serial HyperTerminal (serial assistant) OR "Modbus Poll" Enter;
7 Under the MODBUS command mode, it can support up to 32 devices in parallel
8 Size: 45 * 30 * 18mm
9 Weight: 18.5g
10 Maximum load: 20A 14VDC;20A/125VAC;10A/250VAC



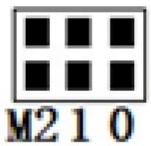
Glossary:

NO : Relay normally open contact
COM : Relay common contact
NC : Relay normally closed contact
Open : NO connection COM, NC disconnect COM
Close : NO disconnect COM, NC connection COM
Momentary : Enter the Momentary command, the Rreceiver Relay is Open, delay of 0.5 seconds after, Relay is Close;

Toggle : Enter the Toggle command, the Rreceiver Relay is Open, Enter the Toggle command again, Relay is Close;

Latched : Enter the Channel 1 Latched command, the receiver Channel 1 is Open, the Channel 2 is Close.
Enter the Channel 2 Latched command the receiver Channel 2 is Open, the Channel 1 is Close.
Enter the Channel 3 Latched command the receiver Channel 1 is Close, the Channel 2 is Close.

Delay : Enter the Delay command, the Rreceiver Relay is Open, delay of 0-9999 seconds(MODBUS command is 0-255 seconds)after, Relay is Close;
During the delay, Eter the Close command, immediately close the relay



MODBUS command (default)

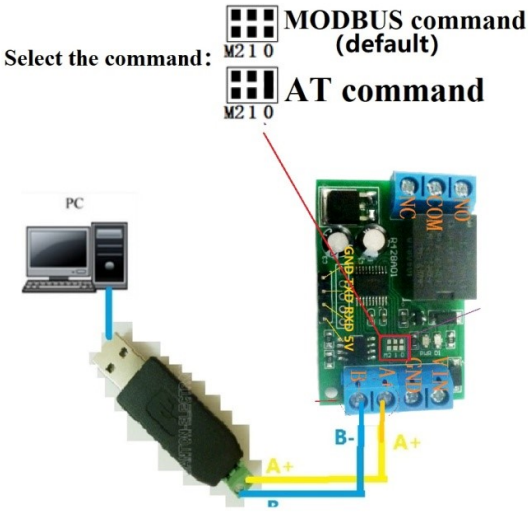
AT command

Command mode selection :(figure above) M0 disconnect is MODBUS command mode. M0 Connect is AT command mode.

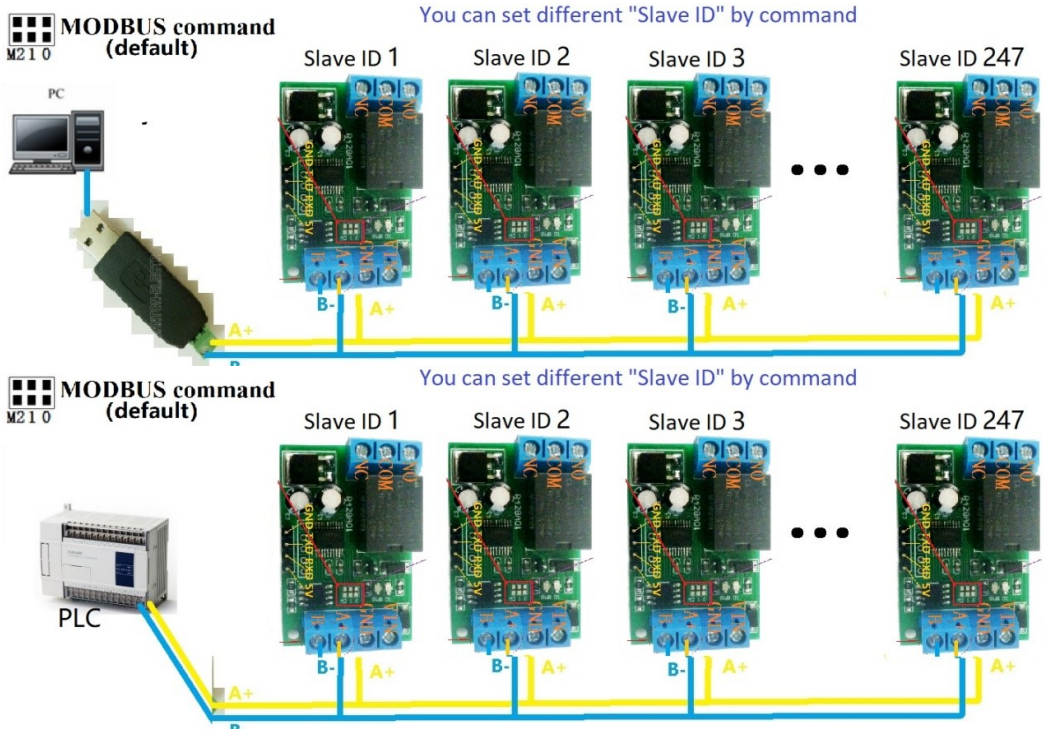
Slave ID: Different "Sliver ID" can be set by command, the maximum number is 247
Under the MODBUS command mode,the slave ID must be correct

command Description, Please refer to "1 Channel RS485 Relay Command"

Typical applications:



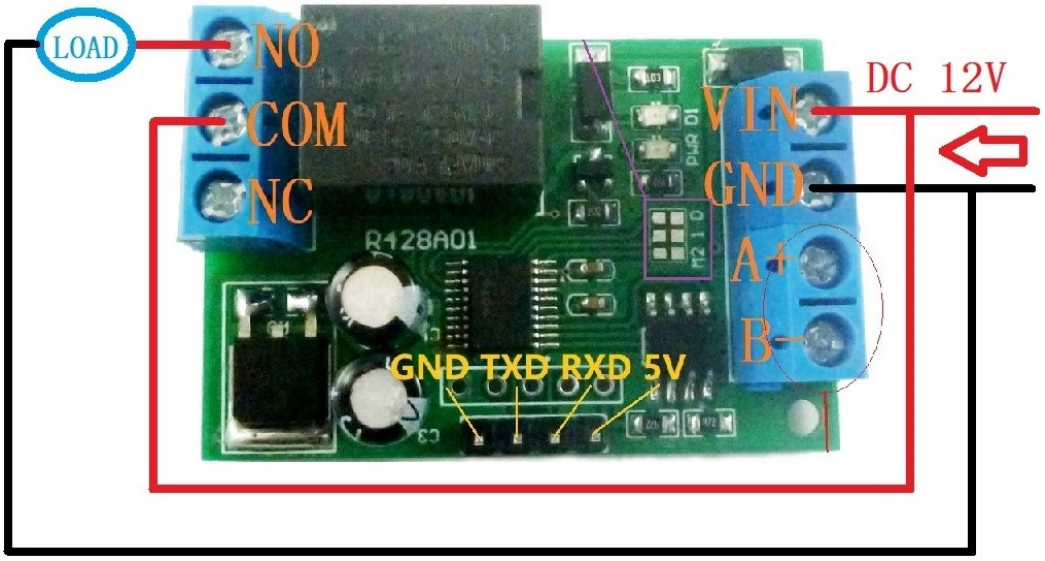
1 AT command mode (M0 Connect), in this mode can be through the serial HyperTerminal (serial assistant) enter a simple AT command control relay. AT command mode time up to 9999 seconds



2 MODBUS command mode (M0 disconnect), you can control a variety of ways: Serial Hyper Terminal Control (need to manually add the CRC), Modbus Poll software control (software automatically add the CRC), PLC or MCU process control

Wiring Diagram:

1 DC 12V control circuit,Wiring diagram below. "LOAD" may be camera,LED lights, fans, motors and other DC 12V equipment



2 DC 1-100VAC 85-265V control circuit,Wiring diagram below(Note:If not DC 12V load, need another DC 12V power supply). "LOAD" may be LED lights, fans, motors Lights, fluorescent lights, solar water heaters and other DC AC equipment