

KCM6S8IO
User Manual



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Serial port parameters

1, Default parameters: 9600, 8, 1, N
SLAVE ID = 255
2, Supports function codes 06/03/10.
3, Register address

Loop	Read and write	Register	Value
OUT1	06/03/10	40001	0/1
OUT2	06/03/10	40002	0/1
OUT3	06/03/10	40003	0/1
OUT4	06/03/10	40004	0/1
OUT5	06/03/10	40005	0/1
OUT6	06/03/10	40006	0/1
DO1	06/03/10	40007	0/1
DO2	06/03/10	40008	0/1
DO3	06/03/10	40009	0/1
DO4	06/03/10	40010	0/1
DO5	06/03/10	40011	0/1
DO6	06/03/10	40012	0/1
DO7	06/03/10	40013	0/1
DO8	06/03/10	40014	0/1
DI1	03	40015	0/1/8/9
DI2	03	40016	0/1/8/9
DI3	03	40017	0/1/8/9
DI4	03	40018	0/1/8/9
DI5	03	40019	0/1/8/9
DI6	03	40020	0/1/8/9
DI7	03	40021	0/1/8/9
DI8	03	40022	0/1/8/9
ID	06/03/10	40251	0-255

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Safety instructions

- Before installation, please read user manual carefully and observe relevant standards, directives, regulations and instructions.
- Electrical equipment must be installed and programmed by qualified technicians only.
- This device is manufactured according to the relevant technical specifications and have CE.
- For more information of this product, please contact the technical engineer of manufacturer.
- Users are not permitted to alter and maintain the product without the authorization of manufacturer.
- Failure to observe the instructions may cause damage to the device and result in fire or other hazards.

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Product Overview

The KCM6S8IO driver realizes the output of the relay, the output of the DO signal, and the input of external dry contact points through the standard Modbus RTU protocol. The driver executes the control commands sent by Modbus instructions or dry contact signals to achieve the switching actions of the load. It can be applied to the control of lighting, underfloor heating ( on-off type), as well as the input and output control of dry contact signals.

Product Features

- Realize the opening and closing actions of a single loop or multiple loops of the driver through the standard Modbus RTU protocol.
- Manually control the opening and closing of all output loops.
- Select high-quality bistable relays, which can maintain the current state when the bus power is cut off or a fault occurs.
- Each loop has an independent status instruction.
- The maximum impact current resistance can reach up to 100A.

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Product parameters

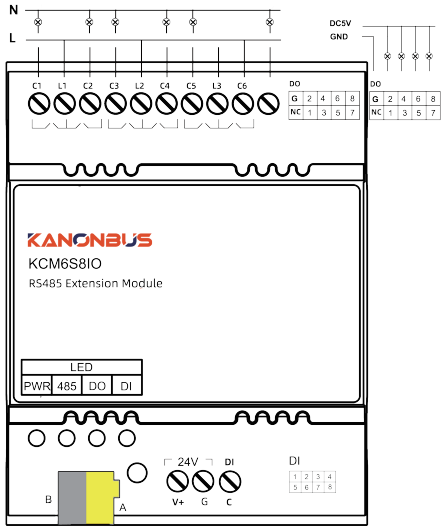
- 1.Power supply mode: DC24V wide voltage input.
- 2.Communication mode: Standard MODBUS RTU.
- 3.Relay: AC 250V, 10A, wire diameter 0.5-2mm.
- 4.DI input mode: Network port plug-in type.
- 5.DO output mode: Wired connection type, 5V.
- 6.Power consumption: 4W.
- 7.Product dimensions: 7292.565.5MM.

Debugging method

- 1.Open the serial port software, set the serial port parameters, and connect to the Modbus system via the USB-to-485 interface.
- 2.Set the ID of each device: Light up the programming indicator light. Send the setting command to register 40251 through the serial port software. The indicator light will automatically turn off after the setting is successful. For example, to set the ID to 1, the command is FF 06 00 FA 00 01 7D E5.
- 3.Set the single-loop switch command. For example, to turn on the OUT1 loop of the device with ID 1, the command is 01 06 00 00 00 01 48 0A.
- 4.Read the status of multiple loops. For example, to read all switch loops, the command is 01 03 0000 00 06 C5 C8.
- 5.The DI input signal commands are divided into two types. It sends 0/1 when pressed briefly and 8/9 when pressed for a long time.

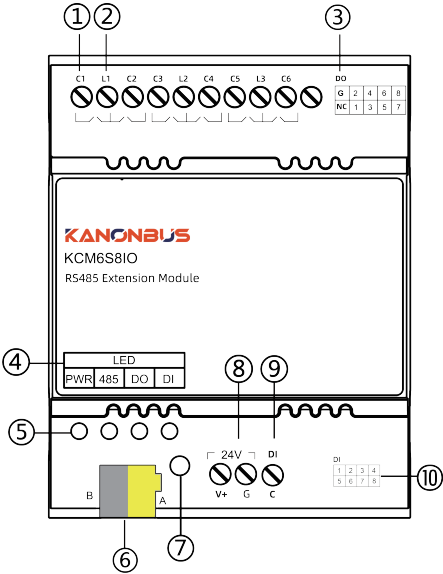
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Product Wiring



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Operating instructions



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Operating instructions

- ① 220V power supply input.
- ② Lighting control wire (live wire).
- ③ DO output interface.
- ④ Operation indicator identification.
- ⑤ Operation indicators: Power supply indicator, RS485 communication indicator, relay and DO port operation indicator, DI input signal indicator.
- ⑥ RS485 interface for connecting to the Modbus system.
- ⑦ Programming button switch/Manual all - on and all - off button: A short press indicates programming, and a long press is for manual all - on and all - off.
- ⑧ Auxiliary power supply interface, 24V.
- ⑨ DI input signal common terminal.
- ⑩ DI input signal interface. The value is 1/0 for a short press and 8/9 for a long press.

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