



MCTC-KZ-B0S Series Encrypted Protocol Conversion Board

User Manual

MON-CM-A00-2025-0073

Preface

This guide describes the features, outline, terminals, wiring, and key settings of the MCTC-KZ-B0S encrypted protocol conversion board. Read this guide carefully before using this product, and keep it properly for future maintenance reference.

Precautions

- 1) The drawings in this guide are for illustration only. Actual products may vary.
- 2) The information in this guide is subject to change without notice due to product upgrades, specification modifications, as well as efforts to increase the accuracy and convenience of the guide.
- 3) If the guide is damaged or lost, order a replacement from your agent or the customer service center of Inovance.
- 4) Contact the customer service center of Inovance if you have problems during use.

Safety Disclaimer

- 1) Before installing, using, and maintaining this equipment, read the safety information and precautions thoroughly, and comply with them during operations.
- 2) Use this product according to the designated environment requirements. Damage caused by improper usage is not covered by the warranty.
- 3) Inovance shall take no responsibility for any personal injuries or property damage caused by improper usage.

 WARNING	
	◆ Installation, wiring, maintenance, inspection, or parts replacement must be performed only by professionals. ◆ Do not touch any terminals during operation. Failure to comply will result in an electric shock. ◆ During operation, signal detection must be performed only by professionals. Failure to comply may result in personal injury or equipment damage.

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Revision History

Date	Version	Change Description
March 2021	A00	First release.

1 Product Information

1.1 Introduction

MCTC-KZ-B0S protocol conversion board is an accessory of the integrated elevator controller. It provides a unified interface for remote access to the integrated controller for customer equipment, such as Internet of Things (IoT) monitoring equipment, residential monitoring equipment, automated guided vehicle (AGV), and visitor linkage equipment. The main functions of the MCTC-KZ-B0S are as follows:

- 1) Provides a set of open slave protocol, through which the customer equipment, as the master, can obtain elevator statuses and parameters, and control the car/hall call registration, enable, door open/close, remote lock, and remote fire fighting of an elevator.
- 2) Provides a set of configurable master protocol, through which the customer equipment, as the slave, can receive the data sent from the MCTC-KZ-B0S. This protocol sends protocol data to external equipment according to the configured frequency and parameters.
- 3) Integrates the functions of residential monitoring board MCTC-MIB-A.
- 4) Allows the simultaneous use of MNK IoT module protocol, open protocol, and residential monitoring protocol, as well as the connection of multiple equipment.

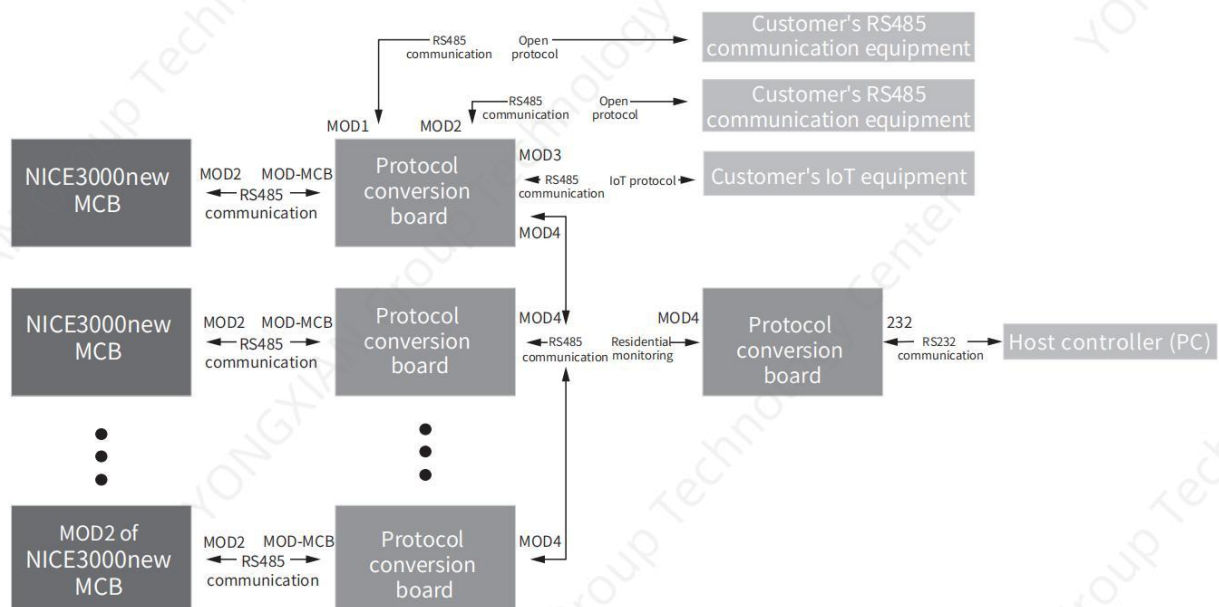


Figure 1-1 MCTC-KZ-B0S system connection

1.2 Dimensions

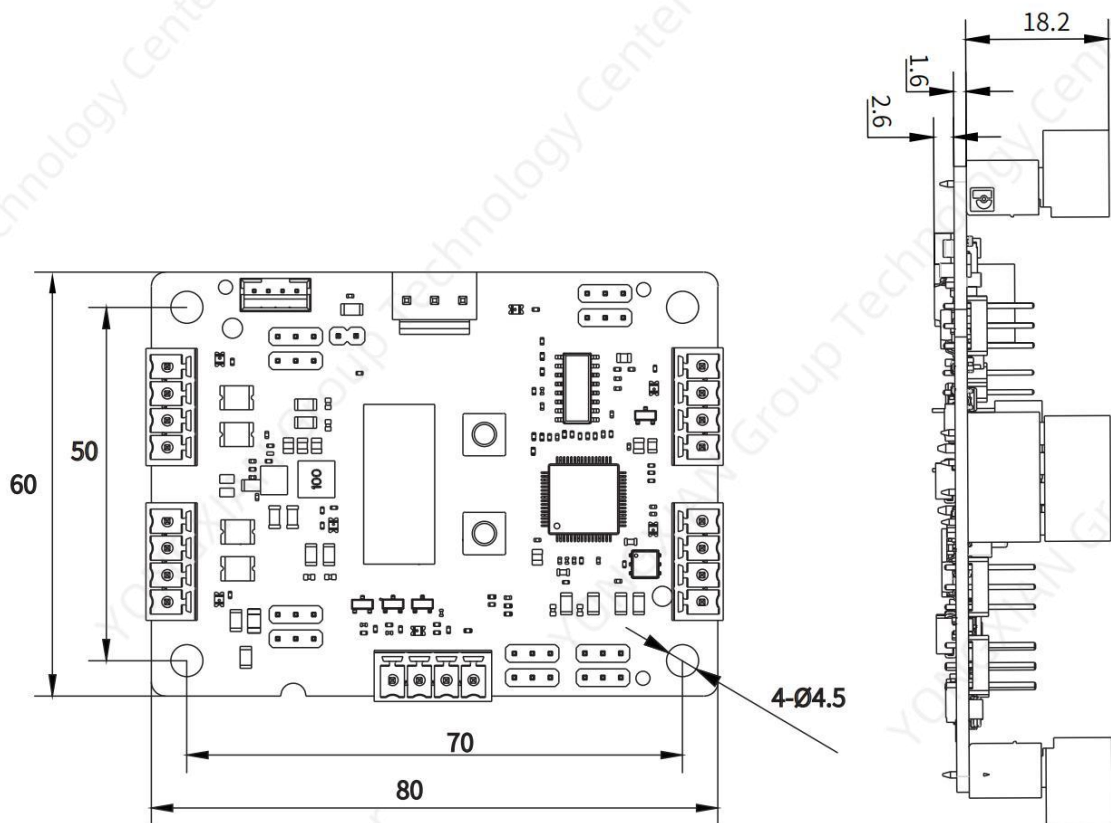


Figure 1-2 Dimensions of the MCTC-KZ-B0S (unit: mm)

1.3 Environmental Requirements

Requirements for installation environment are as follows.

Environmental requirements	Installation environment	Indoor, free from direct sunlight, dust, corrosive and combustible gases, oil mist, vapor, or salt.
	Ambient temperature	-10°C to +50°C
	Humidity	Less than 95% RH, without condensation
	Vibration	Less than 5.9 m/s ² (0.6 g)
	Storage temperature	-20°C to +60°C
	Cooling mode	Natural air cooling
	Storage location	Clean and dry indoor place
	Transportation	Transported in standard packing boxes by means of car, train, plane, ship, and other similar tools.
	Transportation vibration	Sinusoidal vibration at a frequency of 9–200 Hz: 15 m/s ² (1.5 g)

1.4 Ports

The terminal arrangement of the MCTC-KZ-B0S is shown in the following figure.

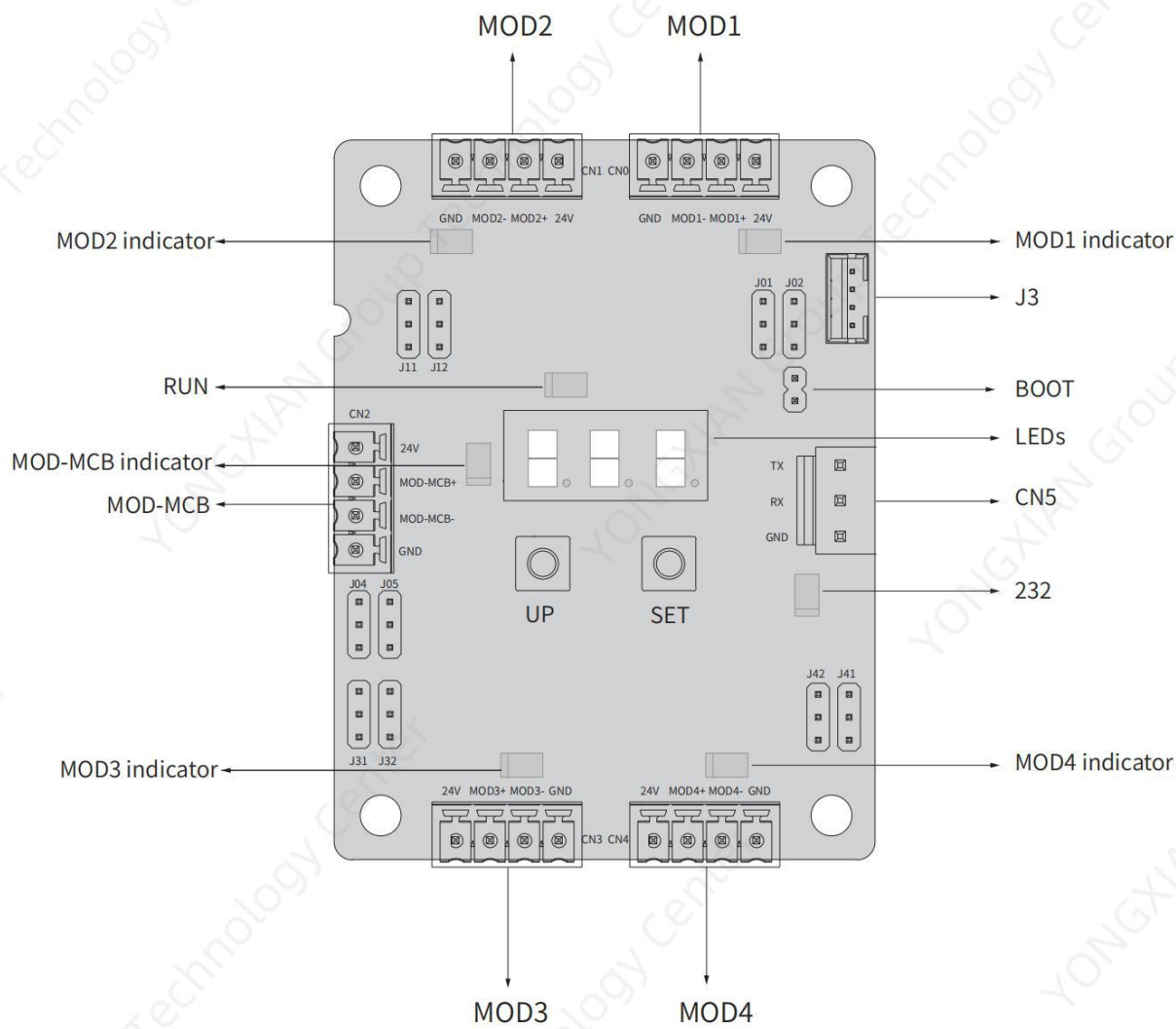


Figure 1-3 Ports on the MCTC-KZ-B0S

The following table describes each port on the MCTC-KZ-B0S.

Table 1-1 Port description

Type	Silkscreen	Description
Human-machine interface (HMI)	UP	Keys and LEDs, used for setting and viewing certain parameters
	SET	
	LEDs	
	RS232 indicator	Port communication indicators, indicating the communication status of corresponding ports
	MOD1 indicator	
	MOD2 indicator	
	MOD-MCB indicator	
	MOD3 indicator	
	MOD4 indicator	
	RUN	Running status indicator, flashes when the system is powered on
Communication port	MOD1	Customer equipment communication port MOD1, with port protocol not configurable
	MOD2	Customer equipment communication port MOD2, with port protocol configurable
	MOD3	Customer equipment communication port MOD3, with port protocol configurable
	MOD4	Customer equipment communication port MOD4, with port protocol configurable
	MCTC-MCB	Controller communication port, connected to the MOD2 port of the MCTC-MCB
	CN5	Connects the external PC when the MCTC-KZ-B0S is used as the residential monitoring board and connected to the PC.
	BOOT	BOOT pin
	J3	Tooling port, used for programming and mobile app connection

The following table describes the states of each indicator.

Indicator	State	Description
Running status (RUN) indicator	Flashing	The system is working properly.
	Steady ON/ OFF	The system is not powered on or working improperly.
Communication indicators	Flashing	Port communication is normal.
	Steady ON	Port communication is abnormal. (There is data but the data is wrong.)
	Steady OFF	Port communication is abnormal. (The equipment is not connected or the communication link is unavailable, resulting in a lack of data.)



◆ When an open master protocol is set for a port, data is being sent if the corresponding indicator flashes continuously.

1.5 Keys

1) UP key

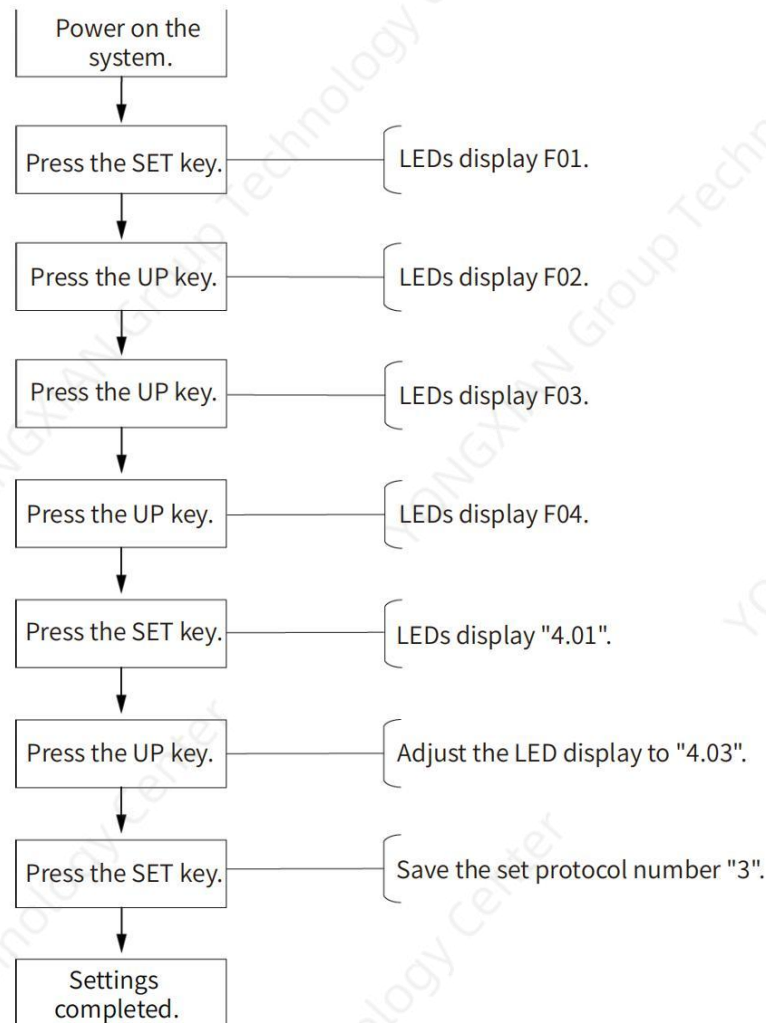
- a) In the parameter selection interface, it is used to switch the parameters.
- b) In the parameter setting interface, it is used to set the value of the current parameter.
- c) In some parameter setting interfaces, long-press this key to switch the current value upwards.

2) SET key

- a) In the default interface, it is used to enter the parameter selection interface.
- b) In the parameter selection interface, it is used to confirm the selected parameter and enter the corresponding parameter setting interface.
- c) In the parameter setting interface, it is used to save the set value of the current parameter.

Example: After power-on, change the value of F04 to 3.

Operation procedure:



- Power on the system. Then, the system enters the default display interface.
- Press the SET key to enter the parameter selection interface.
- Press the UP key to switch the current parameter until the LEDs display F04.
- Press the SET key to enter the F04 setting interface.
- Short-press or Long-press the UP key to switch the value of F04 to 3.
- Press the SET key to save the current value.
- The system automatically returns to the parameter selection interface.

**NOTE**

- ◆ Other parameters can be modified in the same way. Some parameters are read-only and cannot be modified, so the UP key is invalid under these parameters. You can exit the current read-only parameters by pressing the SET key.
- ◆ If there is no key operation for more than one minute, the system automatically returns to the default interface.

1.6 LED Displays

1.6.1 Parameters

Commonly-used parameters can be set through the keypad and LEDs, and detailed parameters can be set through the mobile app Monarch. This section only introduces the parameters supported by LEDs. For detailed parameters, see ["Appendix B Parameter Table"](#).

Parameter	Meaning	Setting Range	Default	Read/Write (R/W) Property
F00	Default menu, port protocol display	Not modifiable	1.01-2.01-3.03-4.04	Read-only
F01	MOD1 protocol	Not modifiable	1.01	Read-only
F02	MOD2 protocol	2.00 to 2.04	2.01	R/W
F03	MOD3 protocol	3.00 to 3.04	3.03	R/W
F04	MOD4 protocol	4.00 to 4.04	4.04	R/W
F05	Residential monitoring mode selection	0 to 2	0	R/W
F06	Number of monitored elevator	1 to 64	1	R/W
F07	Controller address display	Not modifiable	0	Read-only
F08	Software version	Not modifiable	xx.xx-Fxx.xx-Lxx.xx	Read-only

F00 (port protocol display interface)

The LEDs scroll 1.01-2.XX-3.XX-4.XX which indicates the protocols currently used by ports MOD1 to MOD4 respectively. The specific protocol numbers are as follows.

Protocol No.	Protocol Description
00	No protocol
01	Open slave protocol
02	Open master protocol
03	IoT transparent transmission protocol
04	Residential monitoring slave protocol
...	More protocols may be added later. For the latest information, see the parameter table in the mobile app Monarch.

F01 to F04 (configuration of port protocol number)

F01 is read-only and cannot be changed. You can select proper protocols for F02 to F04 according to working conditions.

F05 (MCTC-KZ-B0S type selection)

F05 is set to 0 by default, which means the MCTC-KZ-B0S is used as a protocol conversion board. If the MCTC-KZ-B0S is used for residential monitoring, set F05 to 1 or 2 according to the selected monitoring mode (see ["2.2 Residential Monitoring Function"](#)).

F06 (number of monitored elevator)

Used only when the residential monitoring function is enabled (see ["2.2 Residential Monitoring Function"](#)).

F07 (controller address display)

Used to view the address set by FD-02 of the controller.

F08 (software version)

The LEDs scroll the software version in a format of xx.xx-Fxx.xx-Lxx.xx.

1.6.2 Fault Codes

The MCTC-KZ-B0S is designed with simple fault codes for reporting system abnormality. They are described as follows.

Fault Code	Fault Description	Possible Cause	Solution
E01	Encryption self-authentication failure	The BOOT is erased or the session key is not programmed into the MCTC-KZ-B0S.	Return to the factory for maintenance.
E02	Authentication failure of the unencrypted main control board (MCB)	The actual controller password is inconsistent with the controller password stored in the MCTC-KZ-B0S.	Set F0-07 of the MCTC-KZ-B0S to the actual controller password using the mobile app Monarch.
E03	Authentication failure of the encrypted MCB	Authentication of the encrypted MCB failed.	Update the controller software to V52.00 or later versions.

2 Function Description

2.1 Protocol Conversion Function

The basic function of the MCTC-KZ-B0S is acting as an open protocol. This section introduces a universal MCTC-KZ-B0S scheme that can meet the requirements of most applications. Use this scheme when F05 is set to 0.

1) Scope of scheme application

The universal scheme applies to equipment that needs an open protocol to connect the integrated elevator controller (including AGV, face recognition elevator call, visitor linkage, and elevator status monitoring) and equipment that needs to use IoT module and open protocol simultaneously.

2) System wiring

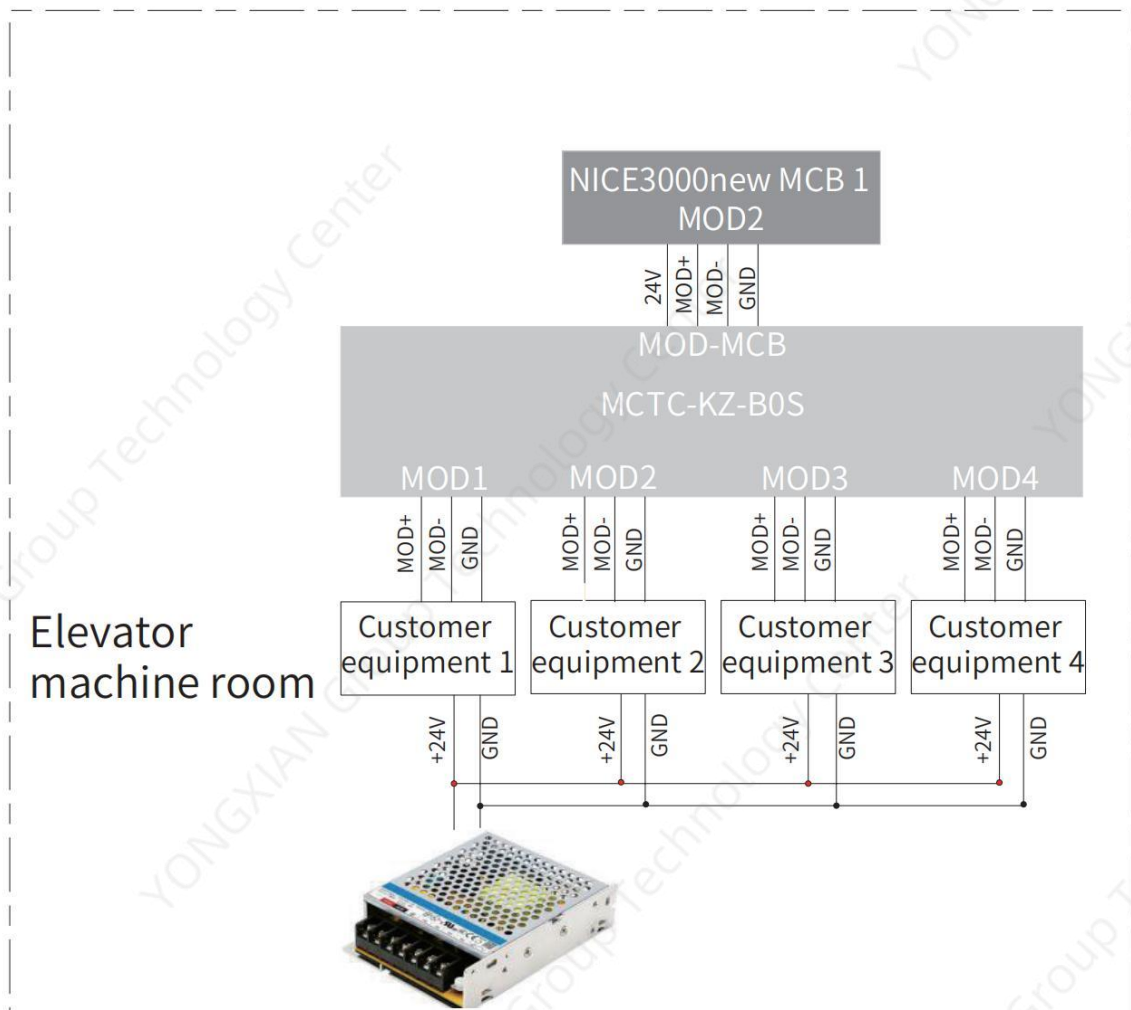


Figure 2-1 System wiring

**NOTE**

- ◆ Cable: RS485 bus must be shielded multi-core stranded wire.
- ◆ Termination resistor: For a long RS485 bus, it is recommended to short pins 2 and 3 of the bus connection port (pins 1 and 2 shorted by default, NO).
- ◆ Terminals +24V of MOD1 to MOD4 do not support external output. It is recommended that customer equipment be equipped with a separate power supply.

Wiring description: The MOD2 port of the controller MCB is connected to the MOD-MCB port of the MCTC-KZ-B0S, and other equipment are connected to MOD1 to MOD4 ports.

3) Protocol setting

MOD1 is fixed as open slave protocol 1 which cannot be modified. You can set required protocols in MOD2 to MOD4 and connect the ports to corresponding equipment.

Default protocols:

Port	Protocol No.	Protocol Description
MOD1	1	Open Modbus RTU protocol
MOD2	1	Open Modbus RTU protocol
MOD3	3	IoT transparent transmission protocol
MOD4	4	Residential monitoring slave protocol

2.2 Residential Monitoring Function

2.2.1 Monitoring of Multiple Elevators (F05 = 2 or F0-05 = 2)

Parameter setting

Elevator No.	Address	Controller Parameter	MCTC-KZ-B0S Parameter	MCTC-KZ-B0S Parameter on the Host Controller (PC) Side	Host Controller (PC)
1	1	FD-02 = 1	F05 = 0, MODn = 4 (n = 2, 3, 4)	F05 = 2 F06 = N	Baud rate: 38400 bps
2	2	FD-02 = 2	F05 = 0, MODn = 4 (n = 2, 3, 4)		
3	3	FD-02 = 3	F05 = 0, MODn = 4 (n = 2, 3, 4)		
...	...	...	F05 = 0, MODn = 4 (n = 2, 3, 4)		
N	N	FD-02 = N	F05 = 0, MODn = 4 (n = 2, 3, 4)		

System wiring

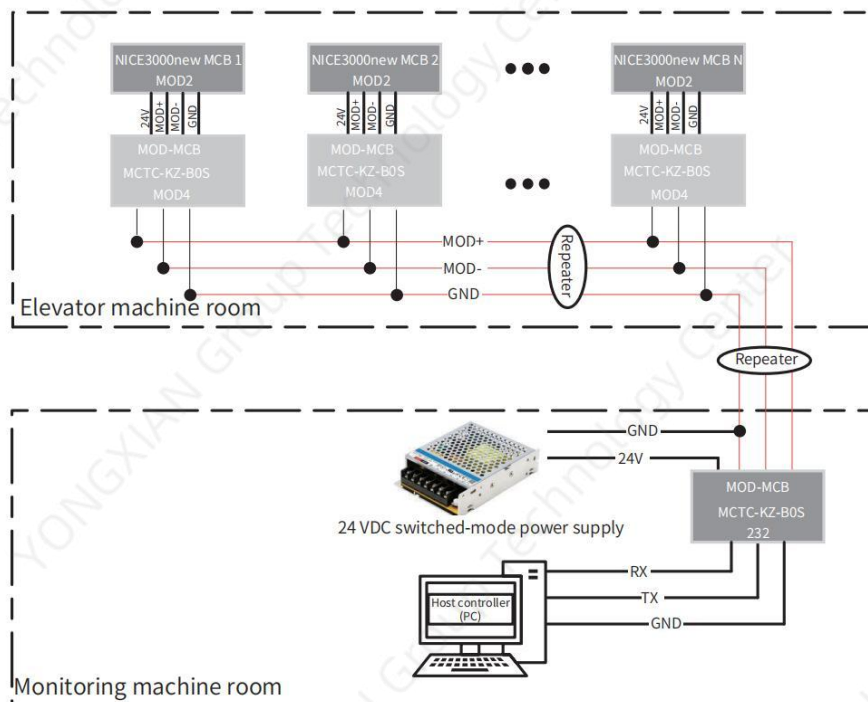


Figure 2-2 System wiring for the residential monitoring function

Cable: RS485 bus (especially red long cables shown in the figure) must be shielded multi-core stranded wire. Use matching cable 15041138 (need to order separately) to connect the 232 port in the monitoring machine room.

Networking: It is recommended to connect several MCTC-KZ-B0S boards to RS485 bus in a "hand in hand" manner. Branch connection will reduce the signal quality. The branch cables must be as short as possible.

Repeater: The number of monitorable MCB is related to the networking mode and bus length. You can use an isolated RS485 repeater with surge and electrostatic discharge (ESD) protection to enhance signal strength.

Termination resistor: For the MCTC-KZ-B0S on the two ends of the bus (MCTC-KZ-B0S with black background shown in the figure), pins 2 and 3 of the bus connection port are shorted (pins 1 and 2 shorted by default, NO). The intermediate MCTC-KZ-B0S boards keep default settings.

Power supply for the MCTC-KZ-B0S in the monitoring machine room: Normally, red cables shown in the figure are thousands of meters long. Direct use of these cables will cause a 24 V voltage drop in the machine room and interfere. It is recommended to provide the MCTC-KZ-B0S in the monitoring machine room with an independent switched-mode power supply.

Detailed operations:

Step 1: Set FD-02 of elevator 1, F05 of connected MCTC-KZ-B0S, and corresponding MOD port protocol to 1, 0, and 4 respectively.

Step 2: Set FD-02 of elevator 2, F05 of connected MCTC-KZ-B0S, and corresponding MOD port protocol to 2, 0, and 4 respectively.

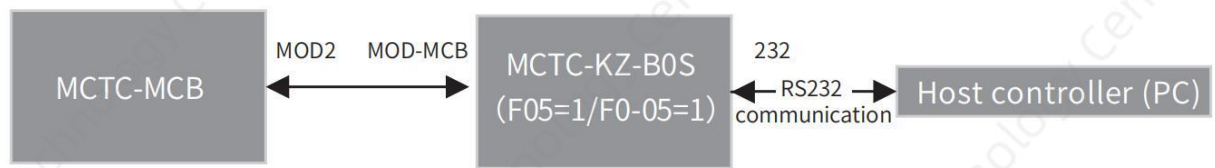
Step 3: Repeat Step 2, and set all controller and MCTC-KZ-B0S parameters. (The value of FD-02 is "1-N" for all controllers, and the values cannot be repeated.)

Step 4: Set F05 and F06 of the MCTC-KZ-B0S connected to PC (N is the number of elevators monitored) to 2 and N respectively.

Step 5: Set the communication baud rate to 38400 bps using the host controller software.

2.2.2 Monitoring of A Single Elevator (F05 = 1 or F0-05 = 1)

1) System wiring

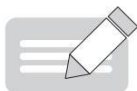


2) Parameter setting

Parameter	Value	Description
F05	1	Monitoring mode for a single elevator

3) Host controller communication

Set the baud rate to 38400 bps (cannot be changed) through the residential monitoring software.



NOTE

- ◆ After monitoring of a single elevator (F05 = 1 or F0-05 = 1) is selected, the protocols defined by MOD1 to MOD4 will be invalid. The MOD-MCB and 232 ports of the MCTC-KZ-B0S are connected to the controller MCB and host controller (PC) respectively. If you want to use both open protocol and residential monitoring function, see section 2.2.1.

3 Commissioning Using Mobile Phone

The MCTC-KZ-B0S can be used to read and modify relevant extension parameters by connecting the mobile app Monarch through the MNKlink tooling and cables (Inovance material code: 1504AV49).

3.1 Equipment Connection



Figure 3-1 Physical drawing of equipment connection

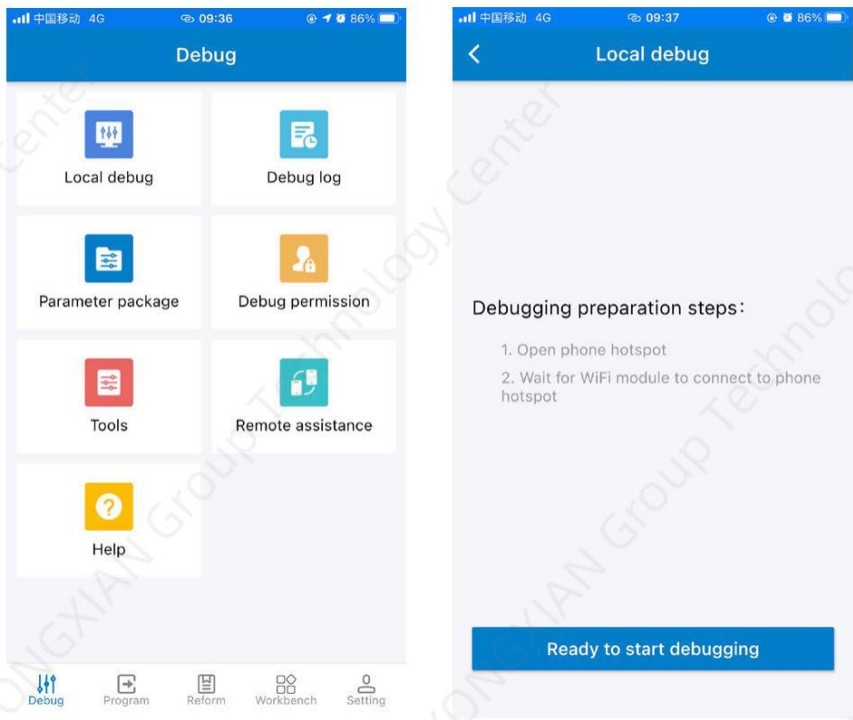
Port RS232/TTL is the Wi-Fi module port connected to the MCTC-KZ-B0S.

3.2 Commissioning Procedure

Step 1: Turn on the hotspot on your mobile phone, set the hotspot name and password (default name: lift; default password: 12345678), and wait for MNKLINK to connect to your mobile phone. (After successful connection, the RUN indicator of MNKLINK becomes steady on.)

Step 2: Open the mobile app Monarch (V2.04 or later), and tap **Local debug** to start commissioning.

(For details, see **Help** shown in the following figure.)

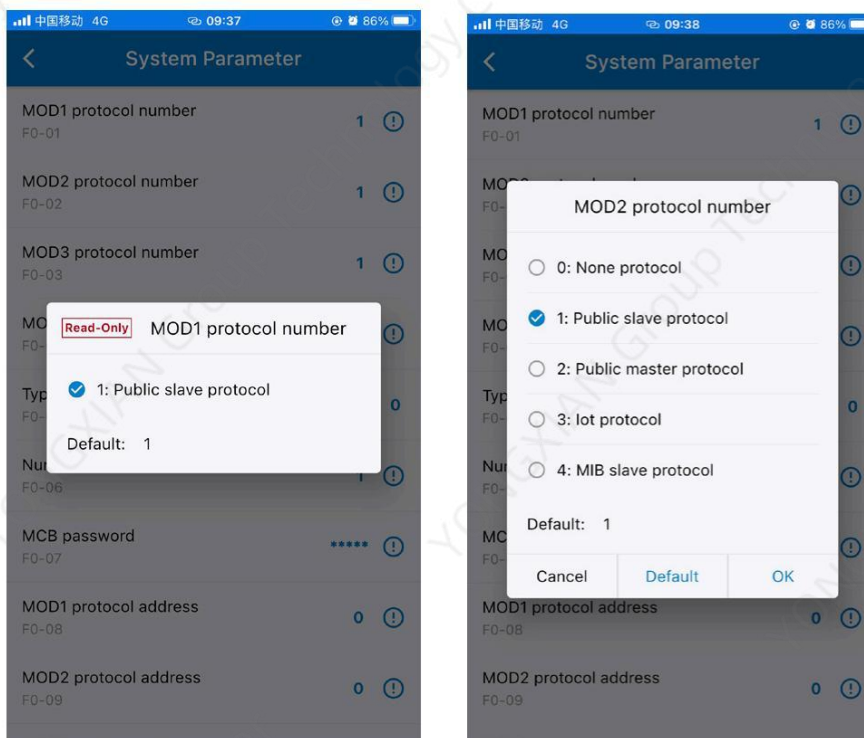


Step 3: Enter the commissioning interface (shown as follows), which includes four menus: **Parameter**, **Fault**, **Functions**, and **Records**.



1) **Parameter** menu: Supports the commissioning of parameters in groups F0 to F3.

Group F0 includes system parameters. You can view and set relevant parameters according to the use of the MCTC-KZ-B0S.



Groups F1 to F3 are used for the configuration of parameters related to the open master protocol.

2) **Fault** menu: Used to view the displayed faults of the MCTC-KZ-B0S.

3) **Functions** menu: Used to import, export, and factory reset the parameters, as well as view parameters different from factory values.

View the changed parameters in the **Compare** interface.



You can export the table of changed parameters to your mobile phone through parameter export.

When you want to set the same parameters on another MCTC-KZ-B0S, you can directly search the exported parameter table in the parameter import interface and tap **Import** to import the same parameters.



To quickly restore the factory parameters, tap **Recovery**.

- 4) **Records** menu: Records the commissioning process. The parameters set during commissioning can be restored.

Appendix A Frequently Asked Questions (FAQs)

Q: Which MCBs does the MCTC-KZ-B0S apply to?

A: At present, all MCBs with port MOD2 support the MCTC-KZ-B0S. For a NICE3000new system (encrypted and unencrypted controller are both included), the MCB software needs to be 20.00 or later versions.

Q: Does the MCTC-KZ-B0S support a dedicated product with a customized MOD2 port protocol? Is MT modification required?

A: Yes, the MCTC-KZ-B0S supports it. MT modification is not required.

Q: Which parameter query and modification methods are supported by the MCTC-KZ-B0S?

A: Two methods are available to modify and view parameters: on-board LEDs and the mobile app Monarch. The onboard LEDs only support the display and setting of commonly-used parameters, and the mobile app Monarch can be used to view and modify more parameters.

Q: Does the MCTC-KZ-B0S support an MCB with level 1 and level 2 passwords? How to set the passwords?

A: For an encrypted system, there is no need to set the MCTC-KZ-B0S password. For a non-encrypted system, the MCTC-KZ-B0S password must be consistent with the MCB password. You can use the mobile app Monarch to set the password via F0-07.

If a level 1 password is set for the MCB, enter the level 1 password. Likewise, if a level 2 password is set, enter the level 2 password. If level 1 and level 2 passwords are both set, enter any one of the level 1 and level 2 passwords.

Q: Can the Modbus addresses for MOD1 to MOD4 be set to different values?

A: By default, the Modbus addresses for MOD1 to MOD4 are set by FD-02 of the controller. But, you can modify the address for a certain port using the mobile app Monarch (see ["Appendix B Parameter Table" on Page 24](#)).

Q: Residential monitoring supports the monitoring of a single elevator or multiple elevators. How to choose the monitoring mode?

A: When two or more elevators are monitored, only multi-elevator monitoring can be selected. When a single elevator is monitored, you can select multi-elevator monitoring (two MCTC-KZ-B0S required) or single-elevator monitoring (one MCTC-KZ-B0S required).

Appendix B Parameter Table

Parameter No.	Parameter Name	Setting Description	Setting Range	Default	R/W Property
Group F0					
F0-01	MOD1 protocol number	MOD1 protocol number	1	1	R
F0-02	MOD2 protocol number	MOD2 protocol number	0-4	1	R/W
F0-03	MOD3 protocol number	MOD3 protocol number	0-4	1	R/W
F0-04	MOD4 protocol number	MOD4 protocol number	0-4	1	R/W
F0-05	Type of control board	0: Protocol conversion board - elevator 1: Residential monitoring board 2: Residential monitoring board (N+1 topology)	0-2	0	R/W
F0-06	Number of monitored elevator	Number of elevator being monitored	1-64	1	R/W
F0-07	MCB password	Used in unencrypted systems	0-65535	0	R/W
F0-08	MOD1 address	0: MCB address Non-zero: Address set by parameter corresponding to the port	0-255	0	R/W
F0-09	MOD2 address		0-255	0	R/W
F0-10	MOD3 address		0-255	0	R/W
F0-11	MOD4 address		0-255	0	R/W
F0-12	MCB address	Address of the elevator MCB connected to the MCTC-KZ-B0S	0-255	0	R
F0-13	Software version V	Major version x 100 + Minor version	0-65535	0	R
F0-14	Software version F	Major version x 100 + Minor version	0-65535	0	R

Parameter No.	Parameter Name	Setting Description	Setting Range	Default	R/W Property
F0-15	Software version L	Major version x 100 + Minor version	0-65535	0	R
F0-16	Manufacturer function selection	Select the manufacturer function.	0-65535	0	R
F0-17	Elevator communication number	Elevator communication number	0-65535	0	R
F0-18	Elevator manufacturer number	Manufacturer number	0-65535	0	R
F0-19	Master protocol sending interval	Interval between master protocol frames	20-60000	50	R/W
Group F1: Open master protocol configuration parameters 1					
F1-00	Number of frame header byte	-	0-10	2	R/W
F1-01	Number of frame trailer byte	-	0-4	0	R/W
F1-02	Number of data area register	-	0-16	10	R/W
F1-03	Sending of data area byte length	0: The length of data area bytes is not sent in the last byte before the data area. 1: The length of data area bytes is sent in the last byte before the data area.	0-1	1	R/W
F1-06	Frame header register 1	High bytes indicate frame header 1. Low bytes indicate frame header 2.	0-65535	21930	R/W
F1-07	Frame header register 2	High bytes indicate frame header 3. Low bytes indicate frame header 4.	0-65535	0	R/W

Parameter No.	Parameter Name	Setting Description	Setting Range	Default	R/W Property
F1-08	Frame header register 3	High bytes indicate frame header 5. Low bytes indicate frame header 6.	0–65535	0	R/W
F1-09	Frame header register 4	High bytes indicate frame header 7. Low bytes indicate frame header 8.	0–65535	0	R/W
F1-10	Frame header register 5	High bytes indicate frame header 9. Low bytes indicate frame header 10.	0–65535	0	R/W
F1-11	Data 1 address	Address of data area 1 register	40001–49999	40001	R/W
F1-12	Data 2 address	Address of data area 2 register	40001–49999	40002	R/W
F1-13	Data 3 address	Address of data area 3 register	40001–49999	40003	R/W
F1-14	Data 4 address	Address of data area 4 register	40001–49999	40004	R/W
F1-15	Data 5 address	Address of data area 5 register	40001–49999	40005	R/W
F1-16	Data 6 address	Address of data area 6 register	40001–49999	40006	R/W
F1-17	Data 7 address	Address of data area 7 register	40001–49999	40007	R/W
F1-18	Data 8 address	Address of data area 8 register	40001–49999	40008	R/W
F1-19	Data 9 address	Address of data area 9 register	40001–49999	40009	R/W
F1-20	Data 10 address	Address of data area 10 register	40001–49999	40010	R/W
F1-21	Data 11 address	Address of data area 11 register	40001–49999	40001	R/W

Parameter No.	Parameter Name	Setting Description	Setting Range	Default	R/W Property
F1-22	Data 12 address	Address of data area 12 register	40001–49999	40001	R/W
F1-23	Data 13 address	Address of data area 13 register	40001–49999	40001	R/W
F1-24	Data 14 address	Address of data area 14 register	40001–49999	40001	R/W
F1-25	Data 15 address	Address of data area 15 register	40001–49999	40001	R/W
F1-26	Data 16 address	Address of data area 16 register	40001–49999	40001	R/W
F1-27	Frame trailer register 1	High bytes indicate frame trailer 1. Low bytes indicate frame trailer 2.	0–65535	0	R/W
F1-28	Frame trailer register 2	High bytes indicate frame trailer 3. Low bytes indicate frame trailer 4.	0–65535	0	R/W
Group F2: Open master protocol configuration parameters 2					
F2-00	Number of frame header byte	-	0–10	0	R/W
F2-01	Number of frame trailer byte	-	0–4	0	R/W
F2-02	Number of data area register	-	0–16	0	R/W
F2-03	Sending of data area byte length	0: The length of data area bytes is not sent in the last byte before the data area. 1: The length of data area bytes is sent in the last byte before the data area.	0–1	1	R/W

Parameter No.	Parameter Name	Setting Description	Setting Range	Default	R/W Property
F2-06	Frame header register 1	High bytes indicate frame header 1. Low bytes indicate frame header 2.	0–65535	0	R/W
F2-07	Frame header register 2	High bytes indicate frame header 3. Low bytes indicate frame header 4.	0–65535	0	R/W
F2-08	Frame header register 3	High bytes indicate frame header 5. Low bytes indicate frame header 6.	0–65535	0	R/W
F2-09	Frame header register 4	High bytes indicate frame header 7. Low bytes indicate frame header 8.	0–65535	0	R/W
F2-10	Frame header register 5	High bytes indicate frame header 9. Low bytes indicate frame header 10.	0–65535	0	R/W
F2-11	Data 1 address	Address of data area 1 register	40001–49999	40001	R/W
F2-12	Data 2 address	Address of data area 2 register	40001–49999	40001	R/W
F2-13	Data 3 address	Address of data area 3 register	40001–49999	40001	R/W
F2-14	Data 4 address	Address of data area 4 register	40001–49999	40001	R/W
F2-15	Data 5 address	Address of data area 5 register	40001–49999	40001	R/W
F2-16	Data 6 address	Address of data area 6 register	40001–49999	40001	R/W
F2-17	Data 7 address	Address of data area 7 register	40001–49999	40001	R/W

Parameter No.	Parameter Name	Setting Description	Setting Range	Default	R/W Property
F2-18	Data 8 address	Address of data area 8 register	40001–49999	40001	R/W
F2-19	Data 9 address	Address of data area 9 register	40001–49999	40001	R/W
F2-20	Data 10 address	Address of data area 10 register	40001–49999	40001	R/W
F2-21	Data 11 address	Address of data area 11 register	40001–49999	40001	R/W
F2-22	Data 12 address	Address of data area 12 register	40001–49999	40001	R/W
F2-23	Data 13 address	Address of data area 13 register	40001–49999	40001	R/W
F2-24	Data 14 address	Address of data area 14 register	40001–49999	40001	R/W
F2-25	Data 15 address	Address of data area 15 register	40001–49999	40001	R/W
F2-26	Data 16 address	Address of data area 16 register	40001–49999	40001	R/W
F2-27	Frame trailer register 1	High bytes indicate frame trailer 1. Low bytes indicate frame trailer 2.	0–65535	0	R/W
F2-28	Frame trailer register 2	High bytes indicate frame trailer 3. Low bytes indicate frame trailer 4.	0–65535	0	R/W
Group F3: Open master protocol configuration parameters 3					
F3-00	Number of frame header byte	-	0–10	0	R/W
F3-01	Number of frame trailer byte	-	0–4	0	R/W
F3-02	Number of data area register	-	0–16	0	R/W

Parameter No.	Parameter Name	Setting Description	Setting Range	Default	R/W Property
F3-03	Sending of data area byte length	0: The length of data area bytes is not sent in the last byte before the data area. 1: The length of data area bytes is sent in the last byte before the data area.	0–1	1	R/W
F3-06	Frame header register 1	High bytes indicate frame header 1. Low bytes indicate frame header 2.	0–65535	0	R/W
F3-07	Frame header register 2	High bytes indicate frame header 3. Low bytes indicate frame header 4.	0–65535	0	R/W
F3-08	Frame header register 3	High bytes indicate frame header 5. Low bytes indicate frame header 6.	0–65535	0	R/W
F3-09	Frame header register 4	High bytes indicate frame header 7. Low bytes indicate frame header 8.	0–65535	0	R/W
F3-10	Frame header register 5	High bytes indicate frame header 9. Low bytes indicate frame header 10.	0–65535	0	R/W
F3-11	Data 1 address	Address of data area 1 register	40001–49999	40001	R/W
F3-12	Data 2 address	Address of data area 2 register	40001–49999	40001	R/W
F3-13	Data 3 address	Address of data area 3 register	40001–49999	40001	R/W
F3-14	Data 4 address	Address of data area 4 register	40001–49999	40001	R/W

Parameter No.	Parameter Name	Setting Description	Setting Range	Default	R/W Property
F3-15	Data 5 address	Address of data area 5 register	40001–49999	40001	R/W
F3-16	Data 6 address	Address of data area 6 register	40001–49999	40001	R/W
F3-17	Data 7 address	Address of data area 7 register	40001–49999	40001	R/W
F3-18	Data 8 address	Address of data area 8 register	40001–49999	40001	R/W
F3-19	Data 9 address	Address of data area 9 register	40001–49999	40001	R/W
F3-20	Data 10 address	Address of data area 10 register	40001–49999	40001	R/W
F3-21	Data 11 address	Address of data area 11 register	40001–49999	40001	R/W
F3-22	Data 12 address	Address of data area 12 register	40001–49999	40001	R/W
F3-23	Data 13 address	Address of data area 13 register	40001–49999	40001	R/W
F3-24	Data 14 address	Address of data area 14 register	40001–49999	40001	R/W
F3-25	Data 15 address	Address of data area 15 register	40001–49999	40001	R/W
F3-26	Data 16 address	Address of data area 16 register	40001–49999	40001	R/W
F3-27	Frame trailer register 1	High bytes indicate frame trailer 1. Low bytes indicate frame trailer 2.	0–65535	0	R/W
F3-28	Frame trailer register 2	High bytes indicate frame trailer 3. Low bytes indicate frame trailer 4.	0–65535	0	R/W



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