

HW-1822C QR code RFID reader

user's manual



Overview

HW-1822C QR code + RFID access control reader is a new generation of multifunctional reader developed by our company. The appearance of this product adopts the standard 86 box industry standard. It has fast scanning speed, high recognition rate, strong compatibility, and can be connected to any Wiegand input. The controller is suitable for various application scenarios. At present, it is widely used in business office building visitor entry management, scenic tourist staff management, community visitor entry and exit management, administrative hall access control management, supporting gates, access control, visitor machines, smart homes, etc.; it is a perfect upgrade for traditional credit card systems in various industries.

1.Code setting



R_CMD_SCAN_CODE_AUTO_LED

Auto sensing mode



R_CMD_SCAN_CODE_NO_INTERVAL

*Continuous mode

Auto sensing mode: Automatically sense and activate white light fill when scanning the code, with a 1s interval of the same code.

Continuous mode: Scan the same code with a 1s interval.



R_CMD_1002

Disable barcode



R_CMD_1003

*Enable barcode



R_CMD_1004

Disable QR



R_CMD_1005

*Enable QR



R_CMD_1006

Disable PDF417



R_CMD_1007

*Enable PDF417



R_CMD_1008

Disable DATAMATRIX



R_CMD_1009

*Enable DATAMATRIX



R_CMD_100C

Disable configuring via setting codes

Disable configuring via setting codes: Not including R_CMD_RESET、R_CMD_UPDATE

2. Beep setting



R_CMD_2000

Mute



R_CMD_2001

*Buzzer

3. Fill light settings



R_CMD_WHITE_LED_OFF

Turn off the lights



R_CMD_WHITE_LED_ON

*Turn off the lights



R_CMD_WHITE_LED_AUTO

Fill light automatic



R_CMD_3002

*Disable green light prompt when scanning code



R_CMD_3003

Enable green light prompt when scanning code

4. Interface Settings

4.1 USB/USB virtual/TTL/RS232/RS485 interface setting



R_CMD_USB_HID

USB keyboard



R_CMD_USB_VCP

USB virtual



R_CMD_OUTPUT_TTL_RS232

TTL/RS232



R_CMD_OUTPUT_RS485=PLAIN

RS485

【Note】 Configure 485 MODBUS protocol data output:

QR code data format: R_CMD_OUTPUT_RS485=MODBUS_RTU, device address (0-255)

For example, if the device address is decimal 10, then the QR code data is R_CMD_OUTPUT_RS485=MODBUS_RTU, 10. Generate the QR code data into a QR code, and the device can scan the QR code to configure and use the 485 MODBUS protocol. The format for sending data is as follows: Start Tag 1 (FE EF)+Data Length (2 bytes)+Start Tag 2 (BAAB)+Address (1 byte)+Data+CRC16 MODBUS (2 bytes). The data length is low bytes before high bytes, indicating the byte length of subsequent data segments. The address is the address of the sending device itself. The data also includes functions (1 byte) and extended data (n bytes). CRC16 MODBUS is the result of CRC16 MODBUS verification of address (1 byte) and data

The 485 MODBUS protocol supports checking whether the target device is online and requesting the device to send data on the 485 bus: 0xFF (function)+0x?? After receiving the target device address, the target device will send data on the 485 bus: 0xFE (function)+0x?? (Request device address) to inform the requesting device that it is currently online. 0xFF (function) specifies that sending data is to check whether the target device is online, and 0xFE (function) specifies that sending data is to reply to the data that is online. Also note that 0xFF and 0xFE (functions) will no longer be available for other functions.

4.2 Wiegand 34bit setting

Configure card number byte data to enable Wiegand 34bit output:



R_CMD_OUTPUT_WIEGAND=BIT34

Enable



R_CMD_OUTPUT_WIEGAND=NONE

Disable

4.3 Configure card number normal and reverse output:



R_CMD_CARD_ID_REVERSE=OFF

Normal



R_CMD_CARD_ID_REVERSE=ON

Reverse

If the decimal number of the configuration card number is less than 10 digits, whether to add 0 to the front end:



R_CMD_CARD_ID_DECIMAL_FRONT_FILL_ZERO=ON

Enable 0



R_CMD_CARD_ID_DECIMAL_FRONT_FILL_ZERO=OFF

Disable 0

4.4 TTL、RS232、RS485 Baud rate setting

Default baud rate value:115200



R_CMD_BAUD_57600

57600



R_CMD_BAUD_56000

56000



R_CMD_BAUD_38400

38400



R_CMD_BAUD_19200

19200



R_CMD_BAUD_14400

14400



R_CMD_BAUD_9600

9600



R_CMD_BAUD_4800

4800



R_CMD_BAUD_2400

2400



R_CMD_BAUD_1200

1200



R_CMD_BAUD_600

600



R_CMD_BAUD_300

300



R_CMD_BAUD_110

110

5. End character setting



R_CMD_5000

* No end character



R_CMD_5001

0D0A



R_CMD_5002

TAB



R_CMD_5003

0D



R_CMD_5004

0A

6. Version query



R_CMD_VERSION

Version

7. Default setting



R_CMD_RESET

Default setting



R_CMD_RESET

Default setting

8. Time interval setting for repeated code scanning

Command is R_CMD_SAME_CODE_SLOT_XXXX, XXXX represents how many ms intervals when scanning the same code. The unit is ms.

it is 0, there is no interval. The default value is 1000 ms.

For example, to set it to 2s, the command is R_CMD_SAME_CODE_SLOT_2000.



R_CMD_SAME_CODE_
SLOT_2000

2000ms

9. Card number data output type



R_CMD_CARD_ID_OUTPUT_TYPE=DECIMAL

Decimal



R_CMD_CARD_ID_OUTPUT_TYPE=HEX

Hexadecimal

10. Special code enable or disable



R_CMD_SCAN_CODE_ANTI_COLOR=ON

Enable reverse code



R_CMD_SCAN_CODE_ANTI_COLOR=OFF

Disable reverse code



R_CMD_SCAN_CODE_AZTEC=ON

Enable AZTEC



R_CMD_SCAN_CODE_AZTEC=OFF

Disable AZTEC