# KC868 Series Device H8/H16/H32 Communication Protocol

**Description: The protocol is mainly used to re-development.**

**Make sure the command "RELAY-SCAN_DEVICE-NOW" must be sent firstly after getting the device power on each time. When getting the receiver, then send the command "RELAY-TEST-NOW".**

> **Send: RELAY-TEST-NOW**
>
> **Return: RELAY-TEST-START**

**\*Attention: at this moment, among the below commands, the pack number (pack_num) is not working, which can be set with "1" (suggestion).**

**If the above commands are not sent after power on firstly, then the below commands are sent each time, the pack_num must be added up "1" manually.**

1. Relay Controlling(SET):

   RELAY-SET-x(1bytepack_num),x(1byterelayserialnumber),x(1byteaction0/1)

   RETURN: RELAY-SET-x(1bytepack_num),x(1byterelayserialnumber),x(1byteaction0/1),
   OK/ERROR

2. Relay Status(READ):

   RELAY-READ-x(1bytepack_num),x(1byterelayserialnumber)

   RETURN: RELAY-READ-x(1bytepack_num),x(1byterelayserialnumber),x(1bytestatus0/1),OK/ERROR

3. Input Status(GET_INPUT):

   RELAY-GET_INPUT-x(1bytepack_num)

   RETURN: RELAY-GET_INPUT-x(1bytepack_num),x(1bytestatus),OK/ERROR

4. Trigger Alarm(ALARM):

   RELAY-ALARM-x(1bytealarmchannel)

   BACKSTAGE RETURN: RELAY-ALARM-x(1bytealarmchannel),OK/ERROR

   Re: Without receiving the RETURN, ALARM will be re-triggered every 3 seconds, totally re-triggered 3 times.

5. Scanning(SCAN_DEVICE):

   RELAY–SCAN_DEVICE–NOW

   RETURN: RELAY–SCAN_DEVICE–CHANNEL_32,OK/ERROR

6. Serial Number acquisition(HOST):

RELAY-HOST-NOW(under TCP working mode)

RETURN: HOST-CHKLIC-97813679bd8cc4c42ddb6c27(return host serial number)


7. Relay Groups Controlling(SET_ALL):

For KC868-H32:

RELAY-SET_ALL-x(1bytepack_num),D3,D2,D1,D0

RETURN: RELAY-SET_ALL-x(1bytepack_num),D3,D2,D1,D0,OK/ERROR

For KC868-H16:

RELAY-SET_ALL-x(1bytepack_num),D1,D0

RETURN: RELAY-SET_ALL-x(1bytepack_num),D1,D0,OK/ERROR

For KC868-H8:

RELAY-SET_ALL-x(1bytepack_num),D0

RETURN: RELAY-SET_ALL-x(1bytepack_num),D0,OK/ERROR

(D3,D2,D1,D0 are all decimal data, 8 digital one group, the biggest value 255; D3 is highest, D0 is lowest)


8. Relay Groups Status(STATE):

RELAY-STATE-x(1bytepack_num)

RETURN:

For KC868-H32:

RELAY-STATE-x(1bytepack_num),D3,D2,D1,D0,OK/ERROR

For KC868-H16:

RELAY-STATE-x(1bytepack_num),D1,D0,OK/ERROR

For KC868-H8:

RELAY-STATE-x(1bytepack_num),D0,OK/ERROR


9. Status Testing(TEST):

RELAY-TEST-NOW

RETURN: RELAY-TEST-START

Re: under this status, the pack_num isn't working.