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.