IOTZONE®

Q12通信协议

常州贞明电子科技有限公司

Zhenming Electronic Technology Co., Ltd

Q12通信协议

网络参数设置后需要重启或者重新上电。

支持TCP、UDP、MQTT
TCP 端口1234
UDP 端口 9128
MQTT接收控制指令的订阅号是sn+ctr(如：QC5fxxxxxxxx15b6ctr)，返回状态的订阅号是sn+state(如：QC5fxxxxxxxx15b6state)

1. 查询设备状态

发送state=?
返回

```
{
    "cmd": "state",
    "output": "000000000000",
    "input": "000000000000",
    "timer_en": 1,
    "runtime": 26,
    "ts": 26,
    "sn": "QC5fxxxxxxxx15b6"
}
```

2. 继电器控制

发送setr=111111111111
1表示打开继电器
0表示关闭继电器
2表示点触
x表示不动作
返回

```
{
    "cmd": "setr",
    "output": "111111111111",
    "input": "000000000000",
    "timer_en": 1,
    "runtime": 60,
    "ts": 60,
```

"sn": "QC5fxxxxxxxx15b6"
}

3. 设置继电器保存

发送relaysave=111111111111
1表示开启继电器保存
0表示关闭继电器保存
返回:

{
"cmd": "outset",
"relaystatus": "111111111111",
"relaysave": "111111111111",
"pulsetm1": 10,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"pulsetm5": 10,
"pulsetm6": 10,
"pulsetm7": 10,
"pulsetm8": 10,
"pulsetm9": 10,
"pulsetm10": 10,
"pulsetm11": 10,
"pulsetm12": 10,
"jgtime": 10,
"runtime": 107,
"ts": 107,
"sn": "QC5fxxxxxxxx15b6"
}

4. 设置时序间隔时间

发送 jgtime=10 时序间隔时间为1秒
返回

{
"cmd": "outset",
"relaystatus": "111111111111",
"relaysave": "111111111111",

"pulsetm1": 10,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"pulsetm5": 10,
"pulsetm6": 10,
"pulsetm7": 10,
"pulsetm8": 10,
"pulsetm9": 10,
"pulsetm10": 10,
"pulsetm11": 10,
"pulsetm12": 10,
"jgtime": 10,
"runtime": 144,
"ts": 144,
"sn": "QC5fxxxxxxxx15b6"
}

5. 继电器时序开启/关闭

发送 sets=111111111111
1表示打开继电器
0表示关闭继电器
X表示不动作
返回

{
"cmd": "sets",
"output": "000000000000",
"input": "000000000000",
"timer_en": 1,
"runtime": 236,
"ts": 236,
"sn": "QC5fxxxxxxxx15b6"
}

6. 输入类型设置

发送intype=111111111111
1表示边沿输入

0表示电平输入
返回


```
{
    "cmd": "inset",
    "intype": "111111111111",
    "senceon1": "3xxxxxxxxxxx",
    "senceon2": "x3xxxxxxxxxx",
    "senceon3": "xx3xxxxxxxxx",
    "senceon4": "xxx3xxxxxxxx",
    "senceon5": "xxxx3xxxxxxx",
    "senceon6": "xxxxx3xxxxxx",
    "senceon7": "xxxxxx3xxxxx",
    "senceon8": "xxxxxxx3xxxx",
    "senceon9": "xxxxxxxx3xxx",
    "senceon10": "xxxxxxxxx3xx",
    "senceon11": "xxxxxxxxxx3x",
    "senceon12": "xxxxxxxxxxx3",
    "senceoff1": "3xxxxxxxxxxx",
    "senceoff2": "x3xxxxxxxxxx",
    "senceoff3": "xx3xxxxxxxxx",
    "senceoff4": "xxx3xxxxxxxx",
    "senceoff5": "xxxx3xxxxxxx",
    "senceoff6": "xxxxx3xxxxxx",
    "senceoff7": "xxxxxx3xxxxx ",
    "senceoff8":"xxxxxxx3xxxx ",
    "senceoff9":"xxxxxxxx3xxx ",
    "senceoff10":"xxxxxxxxx3xx ",
    "senceoff11":"xxxxxxxxxx3x ",
    "senceoff12":"xxxxxxxxxxx3 ",
    "runtime":1352,"
    "ts":1352,"
    "sn":"QC5fxxxxxxxx15b6 "
}
```


7. 查询输入参数设置

发送inset=?
返回

{
"cmd": "inset",
"intype": "111111111111",
"senceon1": "3xxxxxxxxxxx",
"senceon2": "x3xxxxxxxxxx",
"senceon3": "xx3xxxxxxxxx",
"senceon4": "xxx3xxxxxxxx",
"senceon5": "xxxx3xxxxxxx",
"senceon6": "xxxxx3xxxxxx",
"senceon7": "xxxxxx3xxxxx",
"senceon8": "xxxxxxx3xxxx",
"senceon9": "xxxxxxxx3xxx",
"senceon10": "xxxxxxxxx3xx",
"senceon11": "xxxxxxxxxx3x",
"senceon12": "xxxxxxxxxxx3",
"senceoff1": "3xxxxxxxxxxx",
"senceoff2": "x3xxxxxxxxxx",
"senceoff3": "xx3xxxxxxxxx",
"senceoff4": "xxx3xxxxxxxx",
"senceoff5": "xxxx3xxxxxxx",
"senceoff6": "xxxxx3xxxxxx",
"senceoff7": "xxxxxx3xxxxx",
"senceoff8":"xxxxxxx3xxxx",
"senceoff9":"xxxxxxxx3xxx",
"senceoff10":"xxxxxxxxx3xx",
"senceoff11":"xxxxxxxxxx3x",
"senceoff12":"xxxxxxxxxxx3",
"runtime":1413,"
"ts":1413,"
"sn":"QC5fxxxxxxxx15b6 "
}

8. 查询继电器参数设置

发送 outset=?

返回

{
"cmd": "outset",

"relaystatus": "101010101010",
"relaysave": "111111111111",
"pulsetm1": 10,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"pulsetm5": 10,
"pulsetm6": 10,
"pulsetm7": 10,
"pulsetm8": 10,
"pulsetm9": 10,
"pulsetm10": 10,
"pulsetm11": 10,
"pulsetm12": 10,
"jgtime": 0,
"runtime": 1465,
"ts": 1465,
"sn": "QC5fxxxxxxxx15b6"
}

9. 设置点触时间

发送pulsetm1=100，设置继电器1的点触时间为10秒

返回

{
"cmd": "outset",
"relaystatus": "101010101010",
"relaysave": "111111111111",
"pulsetm1": 100,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"pulsetm5": 10,
"pulsetm6": 10,
"pulsetm7": 10,
"pulsetm8": 10,
"pulsetm9": 10,
"pulsetm10": 10,

"pulsetm11": 10,
"pulsetm12": 10,
"jgtime": 0,
"runtime": 1531,
"ts": 1531,
"sn": "QC5fxxxxxxxx15b6"
}

10.设置时区

发送timezone=8

返回

{
"cmd": "ntpts",
"ntpip": "182.92.12.11",
"ntpuser": "0.0.0.0",
"timezone": 8,
"utc": "0:0:0-0",
"ts": 1568,
"runtime": 1568,
"sn": "QC5fxxxxxxxx15b6"
}

11.设置上报间隔

最小间隔为30s

发送interval=100，设置间隔时间为100秒

返回

{
"cmd": "cloud",
"postip": "123.57.12.252",
"postpt": "9128",
"tcpserverpt": "1234",
"udpserverpt": "9128",
"mqttserver": "180.76.114.10",
"mqttuser": "zmmqtt",
"mqttpsw": "zhenmingdianzi",
"mqttport": "1883",
"interval": "100",

"runtime": 1642,
"ts": 1642,
"sn": "QC5fxxxxxxxx15b6"
}

12.重启设备

发送restart