IOTZONE®

QC4通信协议

常州贞明电子科技有限公司

Zhenming Electronic Technology Co., Ltd

QC4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：QC43xxxxxxxx15b6ctr)，返回状态的订阅号是sn+state(如：QC43xxxxxxxx15b6state)

1. 查询设备状态

发送state=?
返回

```
{
    "cmd": "state",
    "output": "0000",
    "input": "0000",
    "timer_en": 1,
    "runtime": 26,
    "ts": 26,
    "sn": "QC43xxxxxxxx15b6"
}
```

2. 继电器控制

发送setr=1111
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": "1111",
    "input": "0000",
    "timer_en": 1,
    "runtime": 60,
    "ts": 60,
```

"sn": "QC43xxxxxxxx15b6"
}

3. 设置继电器保存

发送relaysave=1111
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": "1111",
"relaysave": "1111",
"pulsetm1": 10,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"jgtime": 10,
"runtime": 107,
"ts": 107,
"sn": "QC43xxxxxxxx15b6"
}

4. 输入类型设置

发送intype=1111
1表示边沿输入
0表示电平输入
返回

{
"cmd": "inset",
"intype": "1111",
"senceon1": "3xxx",
"senceon2": "x3xx",
"senceon3": "xx3x",
"senceon4": "xxx3",
"senceoff1": "3xxx",
"senceoff2": "x3xx",
"senceoff3": "xx3x",
"senceoff4": "xxx3",

"runtime":"1352,"
"ts":"1352",
"sn":"QC43xxxxxxxx15b6",
}

5. 查询输入参数设置

发送inset=?

返回

{
"cmd": "inset",
"intype": "1111",
"senceon1": "3xxx",
"senceon2": "x3xx",
"senceon3": "xx3x",
"senceon4": "xxx3",
"senceoff1": "3xxx",
"senceoff2": "x3xx",
"senceoff3": "xx3x",
"senceoff4": "xxx3",
"runtime":1413",
"ts":1413",
"sn":"QC43xxxxxxxx15b6",
}

6. 查询继电器参数设置

发送 outset=?

返回

{
"cmd": "outset",
"relaystatus": "1010",
"relaysave": "1111",
"pulsetm1": 10,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"jgtime": 0,
"runtime": 1465,

"ts": 1465,
"sn": "QC43xxxxxxxx15b6"
}

7. 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": "1010",
"relaysave": "1111",
"pulsetm1": 100,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"jgtime": 0,
"runtime": 1531,
"ts": 1531,
"sn": "QC43xxxxxxxx15b6"
}

8. 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": "QC43xxxxxxxx15b6"
}

9. 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": "QC43xxxxxxxx15b6"
}
```


10.重启设备

发送restart