IOTZONE®

QC6通信协议

常州贞明电子科技有限公司

Zhenming Electronic Technology Co., Ltd

QC6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：QC6c740c39e0725bctr)，返回状态的订阅号是sn+state(如：QC6c740c39e0725bstate)

1. 查询设备状态
发送state=?
返回

```
{
    "cmd": "state",
    "output": "000000",
    "input": "000000",
    "runtime": 395,
    "ts": 395,
    "sn": "QC6c740c39e0725b"
}
```

2. 继电器控制
发送setr=111111
1表示打开继电器
0表示关闭继电器
2表示点触
x表示状态不变
返回

```
{
    "cmd": "setr",
    "output": "111111",
    "input": "000000",
    "runtime": 504,
    "ts": 504,
    "sn": "QC6c740c39e0725b"
}
```

3. 设置继电器保存

发送relaysave=111111

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": "111111",
"relaysave": "111111",
"pulsetm1": 10,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"pulsetm5": 10,
"pulsetm6": 10,
"jgtime": 0,
"runtime":570,
"ts": 570,
"sn": "QC6c740c39e0725b"
}

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": "111111",
"relaysave": "111111",
"pulsetm1": 10,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"pulsetm5": 10,
"pulsetm6": 10,
"jgtime": 10,
"runtime":588,
"ts": 588,
"sn": "QC6c740c39e0725b"
}

5. 查询继电器参数设置

发送 outset=?

返回


```
{
    "cmd": "outset",
    "relaystatus": "111111",
    "relaysave": "111111",
    "pulsetm1": 10,
    "pulsetm2": 10,
    "pulsetm3": 10,
    "pulsetm4": 10,
    "pulsetm5": 10,
    "pulsetm6": 10,
    "jgtime": 10,
    "runtime": 600,
    "ts": 600,
    "sn": "QC6c740c39e0725b"
}
```


6. 输入类型设置

发送intype=111111

1表示边沿输入

0表示电平输入

返回


```
{
    "cmd": "inset",
    "intype": "111111",
    "senceon1": "3xxxxx",
    "senceon2": "x3xxxx",
    "senceon3": "xx3xxx",
    "senceon4": "xxx3xx",
    "senceon5": "xxxx3x",
    "senceon6": "xxxxx3",
    "senceoff1": "3xxxxx",
    "senceoff2": "x3xxxx",
    "senceoff3": "xx3xxx",
    "senceoff4": "xxx3xx",
    "senceoff5": "xxxx3x",
    "senceoff6": "xxxxx3",
    "runtime": 628,
```

"ts": 628,
"sn": "QC6c740c39e0725b"
}

7. 查询输入参数设置

发送inset=?

返回

{
"cmd": "inset",
"intype": "111111",
"senceon1": "3xxxxx",
"senceon2": "x3xxxx",
"senceon3": "xx3xxx",
"senceon4": "xxx3xx",
"senceon5": "xxxx3x",
"senceon6": "xxxxx3",
"senceoff1": "3xxxxx",
"senceoff2": "x3xxxx",
"senceoff3": "xx3xxx",
"senceoff4": "xxx3xx",
"senceoff5": "xxxx3x",
"senceoff6": "xxxxx3",
"runtime": 638,
"ts": 638,
"sn": "QC6c740c39e0725b"
}

8. 设置网络参数

发送pulsetm1=100，设置继电器1的点触时间为10秒

返回

{
"cmd": "outset",
"relaystatus": "111111",
"relaysave": "111111",
"pulsetm1": 100,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"pulsetm5": 10,
"pulsetm6": 10,

"jgtime": 10,
"runtime": 654,
"ts": 654,
"sn": "QC6c740c39e0725b"
}

9. 设置时区

发送timezone=8

返回

{
"cmd": "ntpts",
"ntpip": "139.199.215.251",
"ntpuser": "0.0.0.0",
"timezone": 8,
"utc": "0:0:0–0",
"ts": 670,
"runtime": 670,
"sn": "QC6c740c39e0725b"
}

10. 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",
"mqttport": "1883",
"interval": "100",
"runtime": 687,
"ts": 687,
"sn": "QC6c740c39e0725b"
}

11. 重启设备

发送restart