



IOTZONE[®]

Q2通信协议

常州贞明电子科技有限公司

Zhenming Electronic Technology Co., Ltd





Q2 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: Q294xxxxxxxx638ctr), 返回状态的订阅号是sn+state(如: Q294xxxxxxxx638cstate)

1. 查询设备状态

发送state=?

返回

```
{
  "cmd": "state",
  "output": "00",
  "input": "00",
  "runtime": 395,
  "ts": 395,
  "sn": "Q294xxxxxxxx638c"
}
```

2. 继电器控制

发送setr=11

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": "11",
  "input": "00",
  "runtime": 504,
  "ts": 504,
  "sn": "Q294xxxxxxxx638c"
}
```



3. 设置继电器保存

发送relaysave=11

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": "00",  
  "relaysave": "11",  
  "pulsetm1": 10,  
  "pulsetm2": 10,  
  "runtime": 570,  
  "ts": 570,  
  "sn": "Q294xxxxxxxxx638c"  
}
```

4. 查询继电器参数设置

发送outset=?

返回

```
{  
  "cmd": "outset",  
  "relaystatus": "11",  
  "relaysave": "11",  
  "pulsetm1": 100,  
  "pulsetm2": 10,  
  "runtime": 663,  
  "ts": 663,  
  "sn": "Q294xxxxxxxxx638c"  
}
```

5. 输入类型设置

发送intype=11

1表示边沿输入

0表示电平输入

返回

```
{  
  "cmd": "inset",  
  "intype": "11",  
  "senceon1": "3x",  
  "senceon2": "x3",  
}
```



```
"senceoff1": "3x",  
"senceoff2": "x3",  
"runtime": 1311,  
"ts": 1311,  
"sn": "Q294xxxxxxxxx638c"  
}
```

6. 查询输入参数设置

发送inset=?

返回

```
{  
  "cmd": "inset",  
  "intype": "11",  
  "senceon1": "3x",  
  "senceon2": "x3",  
  "senceoff1": "3x",  
  "senceoff2": "x3",  
  "runtime": 1362,  
  "ts": 1362,  
  "sn": "Q294xxxxxxxxx638c"  
}
```

7. 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": "11",  
  "relaysave": "11",  
  "pulsetm1": 100,  
  "pulsetm2": 10,  
  "runtime": 1432,  
  "ts": 1432,  
  "sn": "Q294xxxxxxxxx638c"  
}
```

8. 设置时区

发送timezone=8

返回



```
{  
  "cmd": "ntpts",  
  "ntpip": "123.57.12.252",  
  "ntpuser": "0.0.0.0",  
  "timezone": 8,  
  "utc": "0:0:0-0",  
  "ts": 1437,  
  "runtime": 1437,  
  "sn": "Q294xxxxxxxx638c"  
}
```

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",  
  "mqttport": "1883",  
  "interval": "100",  
  "runtime": 1441,  
  "ts": 1441,  
  "sn": "Q294xxxxxxxx638c"  
}
```

10. 重启设备

发送restart