



IOTZONE[®]

Q16通信协议

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Q16 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: QFf3xxxxxxxx60d7ctr), 返回状态的订阅号是sn+state(如: QFf3xxxxxxxx60d7state)

1. 查询设备状态

发送state=?

返回

```
{  
  "cmd": "state",  
  "output": "0000000000000000",  
  "timer_en": 1,  
  "ts": 32,  
  "runtime": 32,  
  "sn": "QFf3xxxxxxxx60d7"  
}
```

2. 继电器控制

发送setr=1111111111111111

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": "1111111111111111",  
  "timer_en": 1,  
  "ts": 68,  
  "runtime": 68,  
  "sn": "QFf3xxxxxxxx60d7"  
}
```

3. 设置继电器保存

发送relaysave=1111111111111111



1表示开启继电器保存

0表示关闭继电器保存

返回:

```
{
  "cmd": "relay",
  "relaystatus": "111111111111111",
  "relaysave": "111111111111111",
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10],
  "jgtime": 0,
  "ts": 112,
  "runtime": 112,
  "sn": "QFf3xxxxxxxxx60d7"
}
```

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": "relay",
  "relaystatus": "111111111111111",
  "relaysave": "111111111111111",
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10],
  "jgtime": 10,
  "ts": 427,
  "runtime": 427,
  "sn": "QFf3xxxxxxxxx60d7"
}
```

5. 查询继电器参数设置

发送 outset=?

返回

```
{
  "cmd": "relay",
  "relaystatus": "111111111111111",
  "relaysave": "111111111111111",
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10],
  "jgtime": 0,
  "ts": 185,
  "runtime": 185,
  "sn": "QFf3xxxxxxxxx60d7"
}
```



}

6. 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": "relay",
  "relaystatus": "0000000000000000",
  "relaysave": "0000000000000000",
  "ptime": [100, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10],
  "jgtime": 0,
  "ts": 200,
  "runtime": 200,
  "sn": "QFf3xxxxxxxxx60d7"
}
```

7. 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": 116,
  "runtime": 116,
  "sn": "QFf3xxxxxxxxx60d7"
}
```

8. 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",  
"mqttten": 1,  
"mqttport": "1883",  
"interval": "100",  
"ts": 263,  
"runtime": 263,  
"sn": "QFf3xxxxxxxxx60d7"  
}
```

9. 重启设备
发送restart