



**IOTZONE<sup>®</sup>**

# Q32通信协议

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## Q32 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：Q326xxxxxxxx60d7ctr)，返回状态的订阅号是sn+state(如：Q326xxxxxxxx60d7state)

### 1. 查询设备状态

发送state=?

返回

```
{  
  "cmd": "state",  
  "output": "00000000000000000000000000000000",  
  "timer_en": 1,  
  "ts": 237,  
  "runtime": 237,  
  "sn": "Q326xxxxxxxx60d7"  
}
```

### 2. 继电器控制

发送setr=11111111111111111111111111111111

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": "11111111111111111111111111111111",  
  "timer_en": 1,  
  "ts": 308,  
  "runtime": 308,  
  "sn": "Q326xxxxxxxx60d7"  
}
```

### 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",
  "relaysave": "11111111111111111111111111111111",
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10],
  "jgtime": 0,
  "ts": 343,
  "runtime": 343,
  "sn": "Q326xxxxxxxxx60d7"
}
```

#### 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",
  "relaysave": "11111111111111111111111111111111",
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10],
  "jgtime": 10,
  "ts": 451,
  "runtime": 451,
  "sn": "Q326xxxxxxxxx60d7"
}
```

#### 5. 查询继电器参数设置

发送 outset=?

返回

```
{
  "cmd": "relay",
  "relaysave": "11111111111111111111111111111111",
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10],
  "jgtime": 10,
  "ts": 491,
  "runtime": 491,
  "sn": "Q326xxxxxxxxx60d7"
}
```



## 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",  
"relaysave": "1111111111111111111111111111111111",  
"ptime": [100, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,  
0, 10, 10, 10, 10, 10, 10, 10, 10],  
"jgtime": 10,  
"ts": 542,  
"runtime": 542,  
"sn": "Q326xxxxxxxxxx60d7"
```

## 7. 设置时区

发送timezone=8

返回

```
"cmd": "ntpts",
"ntpip": "111.230.189.174",
"ntpuser": "0.0.0.0",
"timezone": 8,
"utc": "0:0:0-0",
"ts": 585,
"runtime": 585,
"sn": "Q326xxxxxxxxxx60d7"
```

## 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": 646,  
"runtime": 646,  
"sn": "Q326xxxxxxxxx60d7"  
}
```

9. 重启设备  
发送restart