



IOTZONE®

QL8通信协议

常州贞明电子科技有限公司

Zhenming Electronic Technology Co., Ltd





QL8通信协议

网络参数设置后需要重启或者重新上电。

支持MQTT

MQTT接收控制指令的订阅号是sn+ctr(如: QL8dxxxxxxxxxf158ctr), 返回状态的订阅号是sn+state(如: QL8dxxxxxxxxxf158state)

1. 查询设备状态

发送state=?

返回

```
{  
  "cmd": "state",  
  "output": "00000000",  
  "input": "00000000",  
  "timer_en": 1,  
  "wifirssi": 0,  
  "ts": 1650349839,  
  "runtime": 3187,  
  "sn": "QL8dxxxxxxxxxf158",  
}
```

2. 继电器控制

发送setr=11111111

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": "11111111",  
  "input": "00000000",  
  "timer_en": 1,  
  "wifirssi": 0,  
  "ts": 1650349885,  
  "runtime": 3233,  
  "sn": "QL8dxxxxxxxxxf158",  
}
```



3. 设置继电器保存

发送save=1

1表示开启继电器保存

0表示关闭继电器保存

返回:

```
{
  "sn": "QL8dxxxxxxxxxf158",
  "intype": "11111111",
  "iorelation": "11111111",
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10],
  "save": 1,
  "jgtime": 10,
  "cmd": "relay",
}
```

4. 查询继电器参数设置

发送 relay=?

返回

```
{
  "sn": "QL8dxxxxxxxxxf158",
  "intype": "11111111",
  "iorelation": "11111111",
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10],
  "save": 1,
  "jgtime": 10,
  "cmd": "relay",
}
```

5. 输入类型设置

发送intype=11111111

1表示边沿输入

0表示电平输入

返回

```
{
  "sn": "QL8dxxxxxxxxxf158",
  "intype": "11111111",
  "iorelation": "11111111",
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10],
  "save": 1,
  "jgtime": 10,
}
```



```
"cmd": "relay",  
}
```

6. 查询输入参数设置

发送intype=?

返回

```
{  
  "sn": "QL8dxxxxxxxxxf158",  
  "intype": "11111111",  
  "iorelation": "11111111",  
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10],  
  "save": 1,  
  "jgtime": 10,  
  "cmd": "relay",  
}
```

7. 时序间隔设置

发送jgtime=10 表示时序间隔时间为1秒

返回

```
{  
  "sn": "QL8dxxxxxxxxxf158",  
  "intype": "11111111",  
  "iorelation": "11111111",  
  "ptime": [10, 10, 10, 10, 10, 10, 10, 10],  
  "save": 1,  
  "jgtime": 10,  
  "cmd": "relay",  
}
```

8. 设置点触时间

发送ptime0=100, 设置继电器1的点触时间为10秒

返回

```
{  
  "sn": "QL8dxxxxxxxxxf158",  
  "intype": "11111111",  
  "iorelation": "11111111",  
  "ptime": [100, 10, 10, 10, 10, 10, 10, 10],  
  "save": 1,  
  "jgtime": 10,  
  "cmd": "relay",  
}
```



}

9. 设置输入输出关系

发送 iorelation=11111111

0关闭输入输出关联

1打开输入输出关联

返回

```
{
  "sn": "QL8dxxxxxxxxxf158",
  "intype": "11111111",
  "iorelation": "11111111",
  "ptime": [100, 10, 10, 10, 10, 10, 10, 10],
  "save": 1,
  "jgtime": 10,
  "cmd": "relay",
}
```

10. 重启设备

发送restart