1. 数据推送主题: HWSSH/PRD/HWSSH/SSTSP/MES-EM/SENSOR/SAMPLE/TEST

```
{
   "header":
       "client":"SGTPM20220708001", //网关 ID
       "time":"2021/1/16 10:25:31",
       "id":"SGTPM20220708001", //终端 ID 这里网关与终端是同一产品,它们的
网关 ID 和终端 ID 是相同的
       "type":"GTPM",
                                            //终端类型
       "power":"OFF",
                                             //是否掉电, OFF 代表电池没有使
用,系统外电正常, ON 代表电池使用,系统外电掉电
       "out state":"10000000"
                                     //控制外面的 1~8 路输出, 状态: 1 打开,
0 没有打开
       },
   "data":
       {
       "P01":{"N":"G01","C":"001","V":"1","alert":"NORMAL"},
                                                     //第1路 输入的状态
                                                     //第2路 输入的状态
       "P02":{"N":"G02","C":"002","V":"1","alert":"NORMAL"},
       "P03":{"N":"G03","C":"003","V":"1","alert":"NORMAL"},
                                                     //第3路 输入的状态
       "P04":{"N":"G04","C":"004","V":"1","alert":"NORMAL"},
                                                      //第 4 路 输入的状态
       "P05":{"N":"X01","C":"005","V":"0.0","alert":"NORMAL"}, //第 1 路温度
       "P06":{"N":"X02","C":"006","V":"0.0","alert":"NORMAL"},
                                                    //第 2 路温度
       "P07":{"N":"X03","C":"007","V":"0.0","alert":"NORMAL"}, //第 3 路温度
       "P08":{"N":"X04","C":"008","V":"0.0","alert":"NORMAL"}, //第 4 路温度 温湿度传
感器中温度
       "P09":{"N":"X05","C":"009","V":"0.0","alert":"NORMAL"}, //温湿度传感器中湿度
       "P10":{"N":"X06","C":"010","V":"0.0","alert":"ERROR"},
                                                       //第8路控制输出的采
样电压值
       "P11":{"N":"X07","C":"011","V":"0.0","alert":"ERROR"},
                                                      //第8路控制输出的采
样电流值
       "P12":{"N":"X08","C":"012","V":"0.0","alert":"ERROR"}    //第 5 路温度 机箱
风扇打开关闭的温度值
       }
       }
```

2. 报警推送主题: HWSSH/PRD/HWSSH/SSTSP/MES-EM/SENSOR/ALARM/RPT

数字量报警:

```
{"header":{
              "client": "SGTPM20220708001","
              time":"2022/5/28 15:49:49","
              id":"SGTPM20220708001",
              "type":"GTPM"},
        "data":{
                "P":"02","C":"002","N":"G02",
                                              -- 数字量
                "monitor_type":"D",
                "value":"0",
                "alarm":{"alarm1":"0","alarm2":"N/A"},
                "alert":"ALARM1"}}
                                              -- 1报警
数字量回复正常:
{"header":{
            "client": "SGTPM20220708001",
            "time": "2022/5/28 15:59:15",
            "id": "SGTPM20220708001",
            "type":"GTPM"},
      "data":{
              "P":"02","C":"002","N":"G02",
              "monitor_type":"D",
              "value":"1",
              "alarm":{"alarm1":"0","alarm2":"N/A"},
              "alert":"NORMAL"}}
                                      -- 正常
模拟量报警:
{"header":{
          "client": "SGTPM20220708001",
          "time": "2022/5/28 16:5:45",
          "id": "SGTPM20220708001",
          "type":"GTPM"},
    "data":{
            "P":"05","C":"005","N":"X01",
                "monitor_type":"A",
                                            -- 模拟量
            "value":"2.60",
            "alarm":{
                     "alarm1_up":"2.00","alarm1_down":"0.00",
                     "alarm2_up":"N/A","alarm2_down":"N/A"},
                     "alert":"ALARM1"}}
模拟量回复正常:
```

```
{"header":{
         "client": "SGTPM20220708001",
         "time": "2022/5/28 16:5:37",
         "id": "SGTPM20220708001",
         "type":"GTPM"},
   "data":{
           "P":"05","C":"005","N":"X01",
           "monitor type":"A",
           "value":"0.94",
            "alarm":{
                   "alarm1_up":"2.00","alarm1_down":"0.00",
                   "alarm2_up":"N/A","alarm2_down":"N/A"},
                   "alert":"NORMAL"}}
3 订阅主题:HWSSH/PRD/HWSSH/SSTSP/MES-EM/SENSOR/SETALM/RPT
数字量参数设置和成功返回数据包:
{"header":{
         "client": "SGTPM20220708001",
         "command":"RESET",
         "token": "406db0e3-be73-4711-becd-c73e22635a77",
         "time":"2022-05-28 13:56:12", --- 设置系统时间
         "keep-alive": "ON/OFF",
         "rate":"1"},
                                 --- 数据定时上传周期,单位分钟
   "data":{
         "id": "SGTPM20220708001",
         "P":"01","C":"001",
         "alarm1":"1","alarm2":"N/A"}} -- 0 报警, 1报警, N/A 未启用
模拟量参数设置和成功返回数据包:
{"header":{
         "client": "SGTPM20220708001",
         "command":"RESET",
         "token": "7d0f41e2-91d1-4c63-8d50-755ef3dc9024",
         "time": "2022-05-28 14:15:14",
         "keep-alive": "ON/OFF",
         "rate":"1"},
   "data":{
         "id": "SGTPM20220708001",
```

"P":"05","C":"005",

"alarm1_up":"4.2","alarm1_down":"3.0",

```
"alarm2_up":"N/A","alarm2_down":"N/A"}}
//监控板下发设置温度数据包及监控板设置成功返回数据包
"header": {
"client":"SGTPM20220708001", //网关 ID
"command":"RTU SET",
},
"data": {
"id": "SGTPM20220708001", //终端 ID 这里网关与终端是同一产品,它们的网关 ID 和终端 ID 是
相同的
"TYPE":"T", //表示温度
"P":"01", // 终端控制点编号 01 打开风扇温度 02 打开加热棒温度(该产品没有加热棒)
"V": "50.8" //温度值
}
//监控板下发设置输出控制数据包及监控板设置成功返回数据包
"header": {
"client":"SGTPM20220708001", //网关 ID
"command":"RTU_SET"
},
"data": {
"id": "SGTPM20220708001", //终端 ID 这里网关与终端是同一产品,它们的网关 ID 和终端 ID
是相同的
"TYPE":"IO", //表示普通 IO 输出
"P":"01",
          //终端控制点编号 01~08
"V": "ON" //打开/关闭 ON/OFF
}
//监控板下发设置温度数据包及监控板设置成功返回数据包
"header": {
"client":"SGTPM20220708001", //网关 ID
"command":"RTU SET",
},
"data": {
"id": "SGTPM20220708001", //终端 ID 这里网关与终端是同一产品,它们的网关 ID 和终端 ID 是
相同的
"TYPE":"T", //表示温度
"P":"01", // 终端控制点编号 01 打开风扇温度 02 打开加热棒温度(该产品没有加热棒)
"V": "50.8" //温度值
}
```

}

```
//监控板下发设置输出控制数据包及监控板设置成功返回数据包 {
    "header": {
        "client":"SGTPM20220708001", //网关 ID
        "command":"RTU_SET"
        },
        "data": {
        "id": "SGTPM20220708001", //终端 ID 这里网关与终端是同一产品,它们的网关 ID 和终端 ID 是相同的
        "TYPE":"IO", //表示普通 IO 输出
        "P":"01", //终端控制点编号 01~08
        "V": "ON" //打开/关闭 ON/OFF
        }
    }
```