基本信息

• 项目id (projld): 2488

用户登录接口

• 路径: https://api.123321yun.com/api/user/login

• 参数: username、password、vcode (授权码) (可选)

• 返回值:

```
{
    "msg": "welcome!",
    "code": 200.0,
    "data": "45b572b6-0d95-4a55-86ec-3dfdbcfffa03"
}
```

查询项目基础信息

• 路径: https://api.123321yun.com/api/project/queryProject

• 参数: projld

• 返回值:

```
{
   "msg": "Success",
   "code": 200.0,
    "data": [
       {
           "energyConsumption": "[[2019],[2018],[2017]]",
           "address": "马家龙金龙工业城",
           "city": "深圳市",
           "county": "南山区",
           "projectType": {
               "name": "设备",
               "id": 1
           },
           "delflag": "0",
           "imgurl": "4e23e8fea302e378893de331ee6af3ef",
           "province": "广东省",
           "constructionTime": "2020-02-20",
           "name": "机床云",
           "typeId": "1",
           "id": 2488,
           "state": "1"
       }
   ]
}
```

查询项目下的区域列表

• 路径: https://api.123321yun.com/api/region/queryRegionByProject

• 参数: projld

• 返回值:

```
{
    "msg": "Success",
    "code": 200.0,
    "data": [
        {
            "projId": "2488",
            "name": "A车间",
            "id": 3062
        },
        {
            "projId": "2488",
            "name": "B车间",
            "id": 3069
        },
        {
            "projId": "2488",
            "name": "C车间",
            "id": 3070
        }
    ]
}
```

汇总区域下的设备状态

• 路径: https://api.123321yun.com/api/region/computeRegionDeviceNumber

• 参数: projld、regionId (可选)

• 返回值

```
"msg": "Success",
"code": 200.0,
"data": [
    {
        "name": "A车间",
        "warnDeviceNum": 0,
        "id": 3062,
        "errorDeviceNum": 1,
        "sumDeviceNum": 36
   },
    {
        "name": "B车间",
        "warnDeviceNum": 0,
        "id": 3069,
        "errorDeviceNum": 0,
        "sumDeviceNum": 27
   },
    {
        "name": "C车间",
```

```
"warnDeviceNum": 0,
"id": 3070,
"errorDeviceNum": 0,
"sumDeviceNum": 32
},
{
    "name": "未分区",
    "warnDeviceNum": 0,
    "id": -1,
    "errorDeviceNum": 0,
    "sumDeviceNum": 0
}

}
```

查询项目的设备列表

- 路径: https://api.123321yun.com/api/device/queryDeviceByProject
- 返回值:

```
[
    {
       "deviceType": {
            "name": "数据驾驶舱",
            "id": 3848
        },
        "regionId": "3062",
        "nameplateParams": {},
        "name": "11号机",
        "produceTime": "2020-02-21",
        "model": "31A",
        "id": 21860,
        "brand": "兄弟",
        "projectId": "2488"
   },
    {
        "deviceType": {
            "name": "生产详情",
            "id": 3849
        "regionId": "3062",
        "nameplateParams": {},
        "name": "11号机",
        "produceTime": "2020-02-21",
        "model": "31A",
        "id": 21877,
        "brand": "兄弟",
        "projectId": "2488"
   },
    {
        "deviceType": {
```

```
"name": "实时数据_brother",
            "id": 3850
        },
        "regionId": "3062",
        "nameplateParams": {},
        "name": "10号机",
        "produceTime": "2020-02-21",
        "model": "31A",
        "id": 21887,
        "brand": "兄弟",
        "projectId": "2488"
    },
    {
        "deviceType": {
            "name": "实时数据_Mitsubshi",
            "id": 3851
        },
        "regionId": "3069",
        "nameplateParams": {},
        "name": "1号机",
        "produceTime": "2020-02-21",
        "mode1": "M700",
        "id": 21891,
        "brand": "三菱",
        "projectId": "2488"
    }
]
```

查询车间所有设备属性快照

• 路径: https://api.123321yun.com/api/device/queryRegionDeviceParamStatus

• 参数: regionId

查询单个设备的属性快照接口

- 路径: https://api.123321yun.com/api/device/queryDeviceParamStatus
- 具体返回值:

```
{
    "deviceType": {
        "name": "数据驾驶舱",
        "id": 3848
},
    "errorParamNum": 1,
    "controllerId": "EBOX0027190116",
    "modifyStatus": 0,
    "regionName": "A车间",
    "jsonParams": [
        {
            "qs": 3,
            "realvalue": 100.0,
            "flag": "a_96342",
            "unitName": "%",
            "realQs": 3,
```

```
"dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1130210",
    "paramName": "任务进度",
    "value": 10000.0
},
{
    "qs": 3,
    "realvalue": 307.0,
    "flag": "96354",
    "unitName": "分钟",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1130221",
    "paramName": "运行时长",
    "value": 307.0
},
{
    "qs": 3,
    "realvalue": 8061051.0,
    "flag": "96365",
    "unitName": "",
    "realQs": 3,
    "dataType": "AD",
    "isString": false,
    "newProtocol": false,
    "id": "1130232",
    "paramName": "生产批次",
    "value": 8061051.0
},
{
    "qs": 3,
    "realvalue": 66.7,
    "flag": "a_96343",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1130211",
    "paramName": "时间稼动率",
    "value": 667.0
},
{
    "qs": 3,
    "realvalue": 153.0,
    "flag": "96355",
    "unitName": "分钟",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
```

```
"id": "1130222",
    "paramName": "停止时长",
    "value": 153.0
},
{
    "qs": 3,
    "realvalue": 97.39,
    "flag": "a_96344",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1130212",
    "paramName": "性能稼动率",
    "value": 9739.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "f_run",
    "unitName": "",
    "realQs": 3,
    "dataType": "DI",
    "isString": false,
    "newProtocol": false,
    "id": "1130223",
    "paramName": "运行",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "a_96345",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1130213",
    "paramName": "良品率",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "f_stop",
    "unitName": "",
    "realQs": 3,
    "dataType": "DI",
    "isString": false,
    "newProtocol": false,
    "id": "1130224",
    "paramName": "停止",
    "value": 0.0
```

```
},
{
    "qs": 3,
    "realvalue": 10.0,
    "flag": "96353",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1130220",
    "paramName": "不良品数",
    "value": 10.0
},
{
    "qs": 3,
    "realvalue": 1.0,
    "flag": "m_96362",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
    "id": "1130229",
    "paramName": "模穴数",
    "value": 1.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "a_96346",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1130214",
    "paramName": "设备综合效率",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "f_fail",
    "unitName": "",
    "realQs": 3,
    "dataType": "DI",
    "isString": false,
    "newProtocol": false,
    "id": "1130225",
    "paramName": "故障",
    "value": 0.0
},
{
    "qs": 3,
```

```
"realvalue": 96.95,
    "flag": "a_96347",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1130215",
    "paramName": "当前效率",
    "value": 9695.0
},
{
    "qs": 3,
    "realvalue": 10.0,
    "flag": "m_96359",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
    "id": "1130226",
    "paramName": "不良产量",
    "value": 10.0
},
{
    "qs": 35,
    "realvalue": 115258.0,
    "flag": "96348",
    "unitName": "件",
    "realQs": 11,
    "dataType": "AD",
    "isString": false,
    "newProtocol": false,
    "id": "1130216",
    "paramName": "本批产量",
    "value": 115316.0
},
{
    "qs": 3,
    "realValue": 230.0,
    "flag": "m_96360",
    "unitName": "秒",
    "realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
    "id": "1130227",
    "paramName": "理论周期",
    "value": 230.0
},
{
    "qs": 3,
    "realvalue": 615.0,
    "flag": "96349",
    "unitName": "件",
```

```
"realQs": 3,
        "dataType": "AI",
        "isString": false,
        "newProtocol": false,
        "id": "1130217",
        "paramName": "当班产量",
        "value": 78.0
   },
    {
        "qs": 3,
        "realvalue": 50000.0,
        "flag": "m_96361",
        "unitName": "件",
        "realQs": 3,
        "dataType": "AM",
        "isString": false,
        "newProtocol": false,
        "id": "1130228",
        "paramName": "计划产量",
        "value": 50000.0
   },
    {
        "qs": 35,
        "realvalue": 237.0,
        "flag": "96490",
        "unitName": "秒",
        "realQs": 35,
        "dataType": "AI",
        "isString": false,
        "newProtocol": false,
        "id": "1139653",
        "paramName": "加工周期",
        "value": 237.0
   },
    {
        "qs": 3,
        "realvalue": 3291.666666667,
        "flag": "96492",
        "unitName": "时",
        "realQs": 3,
        "dataType": "AD",
        "isString": false,
        "newProtocol": false,
        "id": "1139665",
        "paramName": "预计完成",
        "value": 1.185E+7
   }
],
"oldOffline": false,
"deviceId": "21527",
"deviceName": "1号机",
"errorTimeSum": 0,
"runTimeSum": 31450406523,
"offline": false,
"warnEventSum": 15,
```

```
"regionId": "3062",
    "warnParamNum": 1,
    "errorEventSum": 14,
    "projectId": "2488",
    "status": 1,
    "timestamp": 1668135351977
}
```

查询项目所有设备属性快照

• 地址: https://api.123321yun.com/api/device/queryProjectDeviceParamStatus

• 参数: projld

• 返回值:

```
{
    "msg": "Success",
   "code": 200.0,
    "data": [
       {
            "deviceType": {
                "name": "数据驾驶舱",
                "id": 3848
            },
            "errorParamNum": 0,
            "controllerId": "EBOX0027190116",
            "modifyStatus": 0,
            "regionName": "A车间",
            "jsonParams": [
                {
                    "qs": 3,
                    "realvalue": 627.0,
                    "flag": "96349",
                    "unitName": "件",
                    "realQs": 3,
                    "dataType": "AI",
                    "isString": false,
                    "newProtocol": false,
                    "id": "1139765",
                    "paramName": "当班产量",
                    "value": 104.0
                },
                {
                    "qs": 3,
                    "realvalue": 8061051.0,
                    "flag": "96365",
                    "unitName": "",
                    "realQs": 3,
                    "dataType": "AD",
                    "isString": false,
                    "newProtocol": false,
                    "id": "1139776",
                    "paramName": "生产批次",
                    "value": 8061051.0
                },
```

```
"qs": 3,
    "realvalue": 10.0,
    "flag": "96353",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1139766",
    "paramName": "不良品数",
    "value": 10.0
},
{
    "qs": 3,
    "realvalue": 237.0,
    "flag": "96490",
    "unitName": "秒",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1139777",
    "paramName": "加工周期",
    "value": 237.0
},
{
    "qs": 3,
    "realvalue": 409.0,
    "flag": "96354",
    "unitName": "分钟",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1139767",
    "paramName": "运行时长",
    "value": 409.0
},
{
    "qs": 3,
    "realvalue": 3291.666666667,
    "flag": "96492",
    "unitName": "时",
    "realQs": 3,
    "dataType": "AD",
    "isString": false,
    "newProtocol": false,
    "id": "1139778",
    "paramName": "预计完成",
    "value": 1.185E+7
},
{
    "qs": 3,
    "realvalue": 204.0,
```

```
"flag": "96355",
    "unitName": "分钟",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1139768",
    "paramName": "停止时长",
    "value": 204.0
},
{
    "qs": 3,
    "realvalue": 103.0,
    "flag": "a_96342",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1139758",
    "paramName": "任务进度",
    "value": 10000.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "f_run",
    "unitName": "",
    "realQs": 3,
    "dataType": "DI",
    "isString": false,
    "newProtocol": false,
    "id": "1139769",
    "paramName": "运行",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 66.7,
    "flag": "a_96343",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1139759",
    "paramName": "时间稼动率",
    "value": 667.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "f_stop",
    "unitName": "",
    "realQs": 3,
```

```
"dataType": "DI",
    "isString": false,
    "newProtocol": false,
    "id": "1139770",
    "paramName": "停止",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 177.47,
    "flag": "a_96344",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1139760",
    "paramName": "性能稼动率",
    "value": 9747.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "f_fail",
    "unitName": "",
    "realQs": 3,
    "dataType": "DI",
    "isString": false,
    "newProtocol": false,
    "id": "1139771",
    "paramName": "故障",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "a_96345",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1139761",
    "paramName": "良品率",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 10.0,
    "flag": "m_96359",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
```

```
"id": "1139772",
    "paramName": "不良产量",
    "value": 10.0
},
{
    "qs": 3,
    "realvalue": 69.0,
    "flag": "a_96346",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1139762",
    "paramName": "设备综合效率",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 230.0,
    "flag": "m_96360",
    "unitName": "秒",
    "realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
    "id": "1139773",
    "paramName": "理论周期",
    "value": 230.0
},
{
    "qs": 3,
    "realvalue": 96.95,
    "flag": "a_96347",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1139763",
    "paramName": "当前效率",
    "value": 9695.0
},
{
    "qs": 3,
    "realvalue": 50000.0,
    "flag": "m_96361",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
    "id": "1139774",
    "paramName": "计划产量",
    "value": 50000.0
```

```
{
            "qs": 3,
            "realvalue": 115342.0,
            "flag": "96348",
            "unitName": "件",
            "realQs": 3,
            "dataType": "AD",
            "isString": false,
            "newProtocol": false,
            "id": "1139764",
            "paramName": "本批产量",
            "value": 115342.0
        },
        {
            "qs": 3,
            "realvalue": 1.0,
            "flag": "m_96362",
            "unitName": "件",
            "realQs": 3,
            "dataType": "AM",
            "isString": false,
            "newProtocol": false,
            "id": "1139775",
            "paramName": "模穴数",
            "value": 1.0
        }
    ],
    "oldOffline": false,
    "deviceId": "21861",
    "deviceName": "10号机",
    "errorTimeSum": 0,
    "runTimeSum": 31456365700,
    "offline": false,
    "warnEventSum": 0,
    "regionId": "3062",
    "warnParamNum": 0,
    "errorEventSum": 0,
    "projectId": "2488",
    "status": 1,
    "timestamp": 1668144556863
},
{
    "deviceType": {
        "name": "生产详情",
        "id": 3849
    },
    "errorParamNum": 0,
    "controllerId": "EBOX0027190116",
    "modifyStatus": 0,
    "regionName": "A车间",
    "jsonParams": [
        {
            "qs": 3,
            "realvalue": 122.0,
```

```
"flag": "96399",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140230",
    "paramName": "晚班加工数",
    "value": 122.0
},
{
    "qs": 3,
    "realvalue": 162.47,
    "flag": "a_96380",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140211",
    "paramName": "性能稼动率",
    "value": 9747.0
},
{
    "qs": 3,
    "realvalue": 666.0,
    "flag": "96402",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140233",
    "paramName": "晚班首时加工数",
    "value": 666.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "a_96381",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140212",
    "paramName": "良品率",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 0.1,
    "flag": "96403",
    "unitName": "%",
    "realQs": 3,
```

```
"dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140234",
    "paramName": "晚班末时稼动率",
    "value": 10.0
},
{
    "qs": 3,
    "realvalue": 0.61,
    "flag": "96400",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140231",
    "paramName": "晚班稼动率",
    "value": 61.0
},
{
    "qs": 3,
    "realvalue": 66.7,
    "flag": "a_96379",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140210",
    "paramName": "时间稼动率",
    "value": 667.0
},
{
    "qs": 3,
    "realvalue": 6.62,
    "flag": "96401",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140232",
    "paramName": "晚班首时稼动率",
    "value": 662.0
},
{
    "qs": 3,
    "realvalue": 8061051.0,
    "flag": "96384",
    "unitName": "",
    "realQs": 3,
    "dataType": "AD",
    "isString": false,
    "newProtocol": false,
```

```
"id": "1140215",
    "paramName": "生产批次",
    "value": 8061051.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "f_stop",
    "unitName": "",
    "realQs": 3,
    "dataType": "DI",
    "isString": false,
    "newProtocol": false,
    "id": "1140237",
    "paramName": "停止",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 613.0,
    "flag": "96385",
    "unitName": "分钟",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140216",
    "paramName": "早班上电时长",
    "value": 613.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "f_fail",
    "unitName": "",
    "realQs": 3,
    "dataType": "DI",
    "isString": false,
    "newProtocol": false,
    "id": "1140238",
    "paramName": "故障",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 55.0,
    "flag": "a_96382",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140213",
    "paramName": "设备综合效率",
    "value": 0.0
```

```
{
    "qs": 3,
    "realvalue": 666.0,
    "flag": "96404",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140235",
    "paramName": "晚班末时加工数",
    "value": 666.0
},
{
    "qs": 3,
    "realvalue": 96.95,
    "flag": "a_96383",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140214",
    "paramName": "当前效率",
    "value": 9695.0
},
    "qs": 3,
    "realvalue": 0.0,
    "flag": "f_run",
    "unitName": "",
    "realQs": 3,
    "dataType": "DI",
    "isString": false,
    "newProtocol": false,
    "id": "1140236",
    "paramName": "运行",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 203.0,
    "flag": "96388",
    "unitName": "分钟",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140219",
    "paramName": "早班待机时长",
    "value": 203.0
},
{
    "qs": 3,
```

```
"realvalue": 409.0,
    "flag": "96386",
    "unitName": "分钟",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140217",
    "paramName": "早班加工时长",
    "value": 409.0
},
{
    "qs": 3,
    "realvalue": 2.37,
    "flag": "m_96408",
    "unitName": "时:分",
    "realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
    "id": "1140239",
    "paramName": "早班起始时间",
    "value": 237.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "96387",
    "unitName": "分钟",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140218",
    "paramName": "早班故障时长",
    "value": 0.0
},
{
    "qs": 3,
    "realValue": 19.95,
    "flag": "m_96409",
    "unitName": "时:分",
    "realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
    "id": "1140240",
    "paramName": "晚班起始时间",
    "value": 1995.0
},
{
    "qs": 3,
    "realvalue": 100.0,
    "flag": "m_96410",
    "unitName": "时",
```

```
"realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
    "id": "1140241",
    "paramName": "EBOX时针校准",
    "value": 100.0
},
{
    "qs": 3,
    "realvalue": 6.77,
    "flag": "96391",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140222",
    "paramName": "早班首时稼动率",
    "value": 677.0
},
{
    "qs": 3,
    "realvalue": 2804.0,
    "flag": "96493",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AD",
    "isString": false,
    "newProtocol": false,
    "id": "1140244",
    "paramName": "本月产量",
    "value": 2804.0
},
{
    "qs": 3,
    "realvalue": 10.0,
    "flag": "96392",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140223",
    "paramName": "早班首时加工数",
    "value": 10.0
},
{
    "qs": 3,
    "realvalue": 115342.0,
    "flag": "96494",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AD",
    "isString": false,
```

```
"newProtocol": false,
    "id": "1140245",
    "paramName": "本批产量",
    "value": 115342.0
},
{
    "qs": 3,
    "realvalue": 104.0,
    "flag": "96389",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140220",
    "paramName": "早班加工数",
    "value": 104.0
},
{
    "qs": 3,
    "realvalue": 100.0,
    "flag": "m_96411",
    "unitName": "分",
    "realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
    "id": "1140242",
    "paramName": "EBOX分针校准",
    "value": 100.0
},
{
    "qs": 3,
    "realvalue": 6.67,
    "flag": "96390",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140221",
    "paramName": "早班稼动率",
    "value": 667.0
},
{
    "qs": 3,
    "realvalue": 1.0,
    "flag": "m_96412",
    "unitName": "",
    "realQs": 3,
    "dataType": "AM",
    "isString": false,
    "newProtocol": false,
    "id": "1140243",
    "paramName": "件次比",
```

```
"value": 1.0
},
{
    "qs": 3,
    "realvalue": 55.0,
    "flag": "96395",
    "unitName": "分钟",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140226",
    "paramName": "晚班上电时长",
    "value": 55.0
},
{
    "qs": 3,
    "realvalue": 361.0,
    "flag": "96396",
    "unitName": "分钟",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140227",
    "paramName": "晚班加工时长",
    "value": 361.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "96393",
    "unitName": "%",
    "realQs": 3,
    "dataType": "AI",
    "isString": false,
    "newProtocol": false,
    "id": "1140224",
    "paramName": "早班末时稼动率",
    "value": 0.0
},
{
    "qs": 3,
    "realvalue": 0.0,
    "flag": "96495",
    "unitName": "件",
    "realQs": 3,
    "dataType": "AD",
    "isString": false,
    "newProtocol": false,
    "id": "1140246",
    "paramName": "上批产量",
    "value": 0.0
},
{
```

```
"qs": 3,
        "realvalue": 0.0,
        "flag": "96394",
        "unitName": "件",
        "realQs": 3,
        "dataType": "AI",
        "isString": false,
        "newProtocol": false,
        "id": "1140225",
        "paramName": "早班末时加工数",
        "value": 0.0
    },
    {
        "qs": 3,
        "realvalue": 141.0,
        "flag": "a_96378",
        "unitName": "%",
        "realQs": 3,
        "dataType": "AI",
        "isString": false,
        "newProtocol": false,
        "id": "1140209",
        "paramName": "任务进度",
        "value": 10000.0
    },
    {
        "qs": 3,
        "realvalue": 239.0,
        "flag": "96397",
        "unitName": "分钟",
        "realQs": 3,
        "dataType": "AI",
        "isString": false,
        "newProtocol": false,
        "id": "1140228",
        "paramName": "晚班故障时长",
        "value": 239.0
    },
    {
        "qs": 3,
        "realvalue": 0.0,
        "flag": "96398",
        "unitName": "分钟",
        "realQs": 3,
        "dataType": "AI",
        "isString": false,
        "newProtocol": false,
        "id": "1140229",
        "paramName": "晚班待机时长",
        "value": 0.0
    }
],
"oldOffline": false,
"deviceId": "21876",
"deviceName": "10号机",
```

```
"errorTimeSum": 0,
    "runTimeSum": 31456880151,
    "offline": false,
    "warnEventSum": 0,
    "regionId": "3062",
    "warnParamNum": 0,
    "errorEventSum": 0,
    "projectId": "2488",
    "status": 1,
    "timestamp": 1668144556866
}
```

查询多个属性快照

- 地址: https://api.123321yun.com/api/device/queryMultiDeviceParamStatus
- 参数: paramlds (属性id) (多个用逗号分隔)
- 返回值

```
{
    "msg": "Success",
    "code": 200.0,
    "data": [
       {
            "qs": 3,
            "realvalue": 239.0,
            "flag": "96397",
            "unitName": "分钟",
            "realQs": 3,
            "dataType": "AI",
            "isString": false,
            "newProtocol": false,
            "id": "1140228",
            "paramName": "晚班故障时长",
            "value": 239.0
       },
            "qs": 3,
            "realvalue": 0.0,
            "flag": "96398",
            "unitName": "分钟",
            "realQs": 3,
            "dataType": "AI",
            "isString": false,
            "newProtocol": false,
            "id": "1140229",
            "paramName": "晚班待机时长",
            "value": 0.0
   ]
}
```

批量查询属性的历史数据

- 地址: https://api.123321yun.com/api/device/queryDeviceParamHistoryData
- 参数: deviceId、start、end、metric (属性标签 flag)
- 返回值:

```
{
    "code": 200,
    "msg": "Success",
    "data": [
        {
            "datetime": 1544586328,
            "ccc": 16888,
            "lqhswd": 29.59006690979004
        },
        {
            "datetime": 1544586388,
            "ccc": 16888,
            "lqhswd": 29.63584327697754
        }
   ]
}
```

查询共有设备类型

- 路径: https://api.123321yun.com/api/devicetype/queryDeviceTypeList
- 返回值:

```
{
        "parent": 501,
        "imageUrlPc":
"0fle647b2fc24e079474bd427013500b, run:b2586d6938694255af75c21cd6264b93",
        "imageUrl":
"be9c23ab334a4f4d908bdc822a1aa990,run:059c72a98876456aa3fa3ba59f341388",
        "name": "冷水机",
       "id": 1
   },
    {
        "parent": 501,
        "imageUrlPc":
"0964cc17c944474ea8c65f96c4b1d4f4,run:1d4f9d7e6ec544c2a1b9e68743b30bd1",
        "imageUrl":
"4a550ba016dc4ca2ba15d7d7f7f88bab,run:03bc9fa080f8430ea5a87c8fd721f7c7",
        "name": "风冷热泵",
       "id": 10
   }
]
```

查询项目私有设备类型

• 路径: https://api.123321yun.com/api/devicetype/queryPublicTypeList

• 参数: projld

• 返回值:同查询共有设备一致

查询设备类型详细属性信息

• 路径: https://api.123321yun.com/api/devicetype/queryDeviceType

• 参数: id (设备类型id)

• 返回值:

```
{
    "parent": 508,
    "imageUrlPc": "d916b890ab5c431a9bb214ce0c0ba111",
    "imageUrl": "8d0783d9390741298c1c5c4886084a21",
    "name": "实时数据_Fanuc",
    "deviceTypeParams": [
        {
            "deviceTypeId": "3857",
            "flag": "s_96626",
            "unitName": "",
            "isOutput": "0",
            "dataType": "AI",
            "isFloat": "0",
            "id": 96626,
            "paramName": "当前操作模式",
            "isHide": "0"
        },
            "deviceTypeId": "3857",
            "flag": "s_96627",
            "unitName": "",
            "isOutput": "0",
            "dataType": "AI",
            "isFloat": "0",
            "id": 96627,
            "paramName": "机台运行状态",
            "isHide": "0"
        }
    ],
    "id": 3857
}
```