瑞能在线开放API文档

请求前缀 https://rn-online.com.cn/rn

接口统一请求参数Header

请求所需token格式如下:

参数名称	参数说明	请求类型	是否必须	数据类型
token	token令牌	header	TRUE	String

token =

获取设备列表

endpoint	method	content-type
/api/device/data/deviceList	GET	

接口描述: 传入项目id，获取设备列表
.

请求参数:

参数名称	参数说明	请求类型	是否必须	数据类型
projectId	项目ID		TRUE	String

请求示例:

```
/api/device/data/deviceList?projectId=test
```

响应参数:

```
@ApiModelProperty(value="设备id")
private Long deviceId;
@ApiModelProperty("设备编号")
private Long deviceNo;
@ApiModelProperty("设备名称")
private String deviceName;
@ApiModelProperty("设备类型")
private Integer deviceType;
@ApiModelProperty("项目id")
private String projectId;
@ApiModelProperty("网关编号")
private Long gateWayNo;
@ApiModelProperty("父设备id")
private Long parentDeviceId;
@ApiModelProperty("排序")
private Integer sort;
@ApiModelProperty("设备类型名称")
private String deviceTypeStr
```

响应示例:

```
{
    "msg": "success",
    "code": 200,
    "data": [
        {
            "deviceId": 909,
            "deviceNo": 910020001,
            "deviceName": "储能网关-1",
```

```
            "deviceType": 1002,
            "projectId": "199f5cd35e624e30b1e8f31e6326531e",
            "gatewayNo": 910020001,
            "parentDeviceId": -1,
            "sort": 1,
            "deviceTypeStr": "储能专用边缘网关"
        }]
}
```

获取设备实时数据

endpoint	method	content-type
/api/device/data/real	GET	

接口描述: 传入设备id,获取设备列表

请求参数:

参数名称	参数说明	请求类型	是否必须	数据类型
deviceId	设备ID		TRUE	Long

请求示例:

```
/api/device/data/real?deviceId=test
```

响应参数:

此处的响应类型有五个: 储能PCS 储能堆控 储能簇控 储能从控 储能电表

3004·储能PCS

```
@ApiModelProperty(value = "设备id")
private Long deviceId;
@ApiModelProperty(value = "工作状态")
private Integer workStatus;
@ApiModelProperty(value = "今日充电量")
private Double chargeEnergyToday;
@ApiModelProperty(value = "今日放电量")
private Double dischargeEnergyToday;
@ApiModelProperty(value = "总充电量")
private Double chargeEnergySumLow;
@ApiModelProperty(value = "总放电量")
private Double dischargeEnergySumLow;
@ApiModelProperty(value = "AB线电压")
private Double uab;
@ApiModelProperty(value = "BC线电压")
private Double ubc;
@ApiModelProperty(value = "CA线电压")
private Double uca;
@ApiModelProperty(value = "A相电流")
private Double ia;
@ApiModelProperty(value = "B相电流")
private Double ib;
@ApiModelProperty(value = "C相电流")
private Double ic;
@ApiModelProperty(value = "总有功功率")
private Double p;
@ApiModelProperty(value = "总无功功率")
private Double q;
@ApiModelProperty(value = "总功率因数")
private Double pf;
@ApiModelProperty(value = "频率")
private Double freq;
@ApiModelProperty(value = "直流功率")
private Double pdc;
@ApiModelProperty(value = "母线电压")
```

```java
private Double ubus;
@ApiModelProperty(value = "母线电流")
private Double ibus;
@ApiModelProperty(value = "系统温度")
private Double sysTemp;
@ApiModelProperty(value = "SOC")
private Double soc;
```

响应示例:

```json
{
    "msg": "success",
    "code": 200,
    "data": [
        {
            "deviceId": null,
            "workStatus": 0,
            "chargeEnergyToday": "207.00",
            "dischargeEnergyToday": "121.00",
            "chargeEnergySumLow": "153949.00",
            "dischargeEnergySumLow": "138989.00",
            "uab": "417.30",
            "ubc": "416.00",
            "uca": "416.90",
            "ia": "0.30",
            "ib": "0.40",
            "ic": "0.70",
            "p": "-0.10",
            "q": "-0.10",
            "pf": "1.00",
            "freq": "50.03",
            "pdc": "0.00",
            "ubus": "806.50",
            "ibus": "0.00",
            "sysTemp": "33.00",
            "soc": "95.00"
        }
    ],
    "timestamp": 1754031617187
}
```

3005·储能堆控

```java
@ApiModelProperty(value = "设备id")
private Long deviceId;
@ApiModelProperty(value = "堆电压")
private Double heapVoltage;
@ApiModelProperty(value = "堆电流")
private Double heapCurrent;
@ApiModelProperty(value = "堆功率")
private Double heapPower;
@ApiModelProperty(value = "堆荷电状态")
private Double heapSoc;
@ApiModelProperty(value = "堆健康状态")
private Double heapSoh;
```

响应示例:

```json
{
    "msg": "success",
    "code": 200,
    "data": [
        {
            "deviceId": null,
            "heapVoltage": "802.50",
            "heapCurrent": "0.00",
            "heapPower": null,
            "heapSoc": "95.00",
            "heapSoh": "86.80"
        }
```

```
    ],
    "timestamp": 1754031650897
}
```

3006·储能簇控

```java
@ApiModelProperty(value = "设备id")
private Long deviceId;
@ApiModelProperty(value = "集群电压")
private Double clusterVoltage;
@ApiModelProperty(value = "集群电流")
private Double clusterCurrent;
@ApiModelProperty(value = "集群功率")
private Double clusterPower;
@ApiModelProperty(value = "集群荷电状态")
private Double clusterSoc;
@ApiModelProperty(value = "集群健康状态")
private Double clusterSoh;
@ApiModelProperty(value = "集群绝缘电阻")
```

响应示例:

```json
{
    "msg": "success",
    "code": 200,
    "data": [
        {
            "deviceId": null,
            "clusterVoltage": "804.00",
            "clusterCurrent": "0.00",
            "clusterPower": null,
            "clusterSoc": "95.00",
            "clusterSoh": "86.70"
        }
    ],
    "timestamp": 1754032201724
}
```

3007·储能从控

```java
@ApiModelProperty(value = "设备id")
private Long deviceId;
@ApiModelProperty("设备编号")
private String deviceNo
@ApiModelProperty(value = "单体电压列表")
private List<String> packVoltages;
@ApiModelProperty(value = "电池包温度列表")
private List<String> packTemperatures;
```

响应示例:

```json
{
    "msg": "success",
    "code": 200,
    "data": [
        {
            "deviceId": null,
            "deviceNo": null,
            "packVoltages": [
                "3.34",
                "3.34",
                "3.35",
                "3.34",
                "3.34",
                "3.34",
                "3.34",
                "3.34",
                "3.34",
                "3.34",
                "3.34",
                "3.34",
```

```json
                "3.36",
                "3.34",
                "3.34",
                "3.34"
            ],
            "packTemperatures": [
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00",
                "35.00"
            ]
        }
    ],
    "timestamp": 1754032222156
}
```

3011·储能电表

```java
@ApiModelProperty(value = "设备id")
private Long deviceId;
@ApiModelProperty(value = "A相电压")
private Double ua;
@ApiModelProperty(value = "B相电压")
private Double ub;
@ApiModelProperty(value = "C相电压")
private Double uc;
@ApiModelProperty(value = "AB线电压")
private Double uab;
@ApiModelProperty(value = "BC线电压")
private Double ubc;
@ApiModelProperty(value = "AC线电压")
private Double uac;
@ApiModelProperty(value = "A相电流")
private Double ia;
@ApiModelProperty(value = "B相电流")
private Double ib;
@ApiModelProperty(value = "C相电流")
private Double ic;
@ApiModelProperty(value = "A相有功功率")
private Double pa;
@ApiModelProperty(value = "B相有功功率")
private Double pb;
@ApiModelProperty(value = "C相有功功率")
private Double pc;
@ApiModelProperty(value = "总有功功率")
private Double p;
@ApiModelProperty(value = "A相无功功率")
private Double qa;
@ApiModelProperty(value = "B相无功功率")
private Double qb;
@ApiModelProperty(value = "C相无功功率")
private Double qc;
@ApiModelProperty(value = "总无功功率")
private Double q;
@ApiModelProperty(value = "A相功率因数")
private Double pfa;
@ApiModelProperty(value = "B相功率因数")
private Double pfb;
@ApiModelProperty(value = "C相功率因数")
private Double pfc;
@ApiModelProperty(value = "总功率因数")
```

```java
private Double pf;
@ApiModelProperty(value = "A相视在功率")
private Double sa;
@ApiModelProperty(value = "B相视在功率")
private Double sb;
@ApiModelProperty(value = "C相视在功率")
private Double sc;
@ApiModelProperty(value = "总视在功率")
private Double s;
@ApiModelProperty(value = "频率")
private Double freq;
@ApiModelProperty(value = "总充电量")
private Double totalEnergy;
@ApiModelProperty(value = "总放电能量")
private Double totalDischargeEnergy;
```

响应示例:

```json
{
    "msg": "success",
    "code": 200,
    "data": [
        {
            "deviceId": null,
            "ua": "241.30",
            "ub": "241.00",
            "uc": "241.50",
            "uab": "417.60",
            "ubc": "417.80",
            "uac": null,
            "ia": "0.36",
            "ib": "0.43",
            "ic": "0.48",
            "pa": "18.72",
            "pb": "20.40",
            "pc": "26.88",
            "p": "66.24",
            "qa": "3.36",
            "qb": "12.00",
            "qc": "2.16",
            "q": "17.76",
            "pfa": "0.98",
            "pfb": "0.86",
            "pfc": "1.00",
            "pf": "0.97",
            "sa": "18.96",
            "sb": "23.76",
            "sc": "26.88",
            "s": "68.40",
            "freq": "49.96",
            "totalEnergy": "1822144.80",
            "totalDischargeEnergy": "12.00"
        }
    ],
    "timestamp": 1754032348332
}
```