**CL188M误差板DLL接口说明**

**E\_CL188M.DLL**

**Operations Manual**

**Release 1.0 Build 1**

**深圳市科陆电子科技股份有限公司**

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## 编写和调用语言：

编写：C#

调用：C#、VB、C++

## 通信方式：

RS485通信、RS232、2018-1/5多路服务器（无中间协议）

## 通信参数：

38400,n,8,1

## 控制流程：

## 类型定义

### 基本类型

以下列出的类型是程序应用环境的默认类型，没有特殊说明的均以此列表为准。

int 32位有符号整数

float 32位有符号浮点数

byte 8位有符号整数

### 结构类型

如果有结构体定义。

## 接口函数详细说明：

### 函数：InitSetting

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | **初始化参数** | | | | | | |
| **IntInitSetting** (**int**ComNumber, **int**MaxWaitTme, **int**WaitSencondsPerByte,**string**IP,**int**RemotePort,**int**LocalStartPort) | | | | | | | | |
| 输入参数： | | | | | | | | |
| 序号 | 类型 | | 参数名称 | 参数含义 | 单位 | 例子 | | |
|  | int | | ComNumber | 端口号 |  | 1 | | |
|  | int | | MaxWaitTme | 命令最长等待时间 | 毫秒 | 3000 | | |
|  | int | | WaitSencondsPerByte | 字节间最长等待时间 | 毫秒 | 200 | | |
|  | string | | IP | 2018多路服务器Ip地址 |  | 193.168.18.1 | | |
|  | int | | RemotePort | 远程端口 |  | 10004 | | |
|  | int | | LocalStartPort | 本地端口 |  | 20000 | | |
| 输出参数：无 | | | | | | | | |
|  |  | |  |  | | |  |  |
| 返回值： | | | | | | | | |
|  | int | |  | 0初始化成功，1初始化失败，-1异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：InitSettingCom

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | **初始化参数** | | | | |
| **IntInitSettingCom** (**int**ComNumber, **int**MaxWaitTime, **int**WaitSencondsPerByte) | | | | | | |
| 输入参数： | | | | | | |
| 序号 | 类型 | | 参数名称 | 参数含义 | 单位 | 例子 |
|  | int | | ComNumber | 端口号 |  | 1 |
|  | int | | MaxWaitTme | 最大等待时间 |  | 3000 |
|  | int | | WaitSencondsPerByte | 字节间延时时间 |  | 200 |
| 输出参数：无 | | | | | | |
|  |  | |  |  |  |  |
| 返回值： | | | | | | |
|  | int | |  | 0初始化成功，1初始化失败，-1异常 |  |  |
| 其它说明： | | | | | | | |
| 无 | | | | | | | |

### 函数：Connect

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | **连接设备** | | | | |
| int **Connect(**intId**,**outstring[] FrameAry**)** | | | | | | |
| 输入参数： | | | | | | |
| 序号 | 类型 | | 参数名称 | 参数含义 | 单位 | 例子 |
| 1 | int | | Id | 误差板编号，从1开始 |  |  |
| 输出参数： | | | | | | |
| 1 | string[] | | FrameAry | 上行报文 |  |  |
| 返回值： | | | | | | |
|  | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 |  |  |
| 其它说明： | | | | | | | |
| 无 | | | | | | | |

### 函数：DisConnect

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | **断开连接** | | | | |
| int **DisConnect(**out string[] FrameAry**)** | | | | | | |
| 输入参数：无 | | | | | | |
| 序号 | 类型 | | 参数名称 | 参数含义 | 单位 | 例子 |
| 1 | int | | Id | 误差板编号，从1开始 |  |  |
| 输出参数： | | | | | | |
| 1 | string[] | | FrameAry | 上行报文 |  |  |
| 返回值： | | | | | | |
| 1 | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 |  |  |
| 其它说明： | | | | | | |
| 无 | | | | | | |

### 函数：UpdateLogin

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **远程升级登录** | | | | | | | | |
| int UpdateLogin(int id,out string[] FrameAry) | | | | | | | | | | | |
| 输入参数：无 | | | | | | | | | | | |
| 序号 | 数据类型 | | | | 参数名称 | | 参数含义 | | 参数单位 | 例子 | |
| 1 | int | | | | Id | | 误差板编号，从1开始 | |  |  | |
| 输出参数： | | | | | | | | | | | |
| 1 | string[] | | | | FrameAry | | 输出上行报文 | |  |  | |
| 返回值： | | | | | | | | | | | |
| 1 | | int | |  | | 0 成功，1设备返回失败2数据发送失败,-1 异常 | |  | | |  |
| 其它说明： | | | | | | | | | | | |
| 无 | | | | | | | | | | | |

### 函数：ReBoot

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **重启误差板** | | | | | | | | |
| int ReBoot(int id,out string[] FrameAry) | | | | | | | | | | | |
| 输入参数： | | | | | | | | | | | |
| 序号 | | 数据类型 | | | 参数名称 | | 参数含义 | 参数单位 | | 例子 | |
| 1 | | int | | | Id | | 误差板编号，从1开始 |  | |  | |
| 输出参数：无 | | | | | | | | | | | |
| 1 | | string[] | | | FrameAry | | 上行报文 |  | |  | |
| 返回值： | | | | | | | | | | | |
| 1 | int | | |  | | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  | |  |
| 其它说明： | | | | | | | | | | | |
| 无 | | | | | | | | | | | |

### 函数：UpdateFirmware

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **远程升级固件** | | | | | | | | |
| int UpdateFirmware( int id,UInt16 DataSerial,byte[] bytesData, out string[] FrameAry) | | | | | | | | | | | |
| 输入参数： | | | | | | | | | | | |
| 序号 | 数据类型 | | | | 参数名称 | | 参数含义 | 参数单位 | | 例子 | |
| 1 | int | | | | Id | | 误差板编号，从1开始 |  | |  | |
| 2 | UInt16 | | | | DataSerial | | 数据序号 |  | |  | |
| 3 | byte[] | | | | bytesData | | 要升级的数据 |  | |  | |
| 输出参数：无 | | | | | | | | | | | |
| 1 | string[] | | | | FrameAry | | 输出上行报文 |  | |  | |
| 返回值： | | | | | | | | | | | |
| 1 | | int | |  | | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  | |  |
| 其它说明： | | | | | | | | | | | |
| 无 | | | | | | | | | | | |

### 函数：UpdateLogin2

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **远程升级2级设备登录** | | | | | | | | |
| int UpdateLogin2(int id, out string[] FrameAry) | | | | | | | | | | | |
| 输入参数： | | | | | | | | | | | |
| 序号 | | 数据类型 | | | 参数名称 | | 参数含义 | 参数单位 | | 例子 | |
| 1 | | int | | | Id | | 误差板编号，从1开始 |  | |  | |
| 输出参数：无 | | | | | | | | | | | |
| 1 | | string[] | | | FrameAry | | 输出上行报文 |  | |  | |
| 返回值： | | | | | | | | | | | |
| 1 | int | | |  | | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  | |  |
| 其它说明： | | | | | | | | | | | |
| 无 | | | | | | | | | | | |

### 函数：ReBoot2

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **重启2级设备** | | | | | | |
| int ReBoot2(int id, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | string[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：UpdateFirmware2

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **远程升级2级设备固件** | | | | | |
| UpdateFirmware2(int id, ushort DataSerial, byte[] bytesData, out string[] FrameAry) | | | | | | | | |
| 输入参数： | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  |  |
| 2 | ushort | | | DataSerial | | 数据序号 |  |  |
| 3 | byte[] | | | bytesData | | 要升级的数据 |  |  |
| 输出参数： | | | | | | | | |
| 1 | string[] | | | FrameAry | | 输出上行报文 |  |  |
| 返回值： | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | |  |  |
| 其它说明： | | | | | | | | |
| 无 | | | | | | | | |

### 函数：ReadVersion2

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取2级设备版本** | | | | | | |
| int ReadVersion2(int id, out string Version, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | string | | | Version | | 版本号 |  | |  |
| 2 | string[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：ReadPowerParams

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取功耗参数** | | | | | | |
| ReadPowerParams(int id, out float AU\_Ia\_or\_I, out float BU\_Ib\_or\_L1\_U, out float CU\_Ic\_or\_L2\_U, out float AI\_Ua, out float BI\_Ub, out float CI\_Uc, out float AU\_Phia\_or\_Phi, out float BU\_Phib, out float CU\_Phic, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | float | | | AU\_Ia\_or\_I | | 三相A相电压回路电流值|单相电压回路电流值 |  | |  |
| 2 | float | | | BU\_Ib\_or\_L1\_U | | 三相B相电压回路电流值|电流1回路电压值 |  | |  |
| 3 | float | | | CU\_Ic\_or\_L2\_U | | 三相C相电压回路电流值|电流2回路电压值 |  | |  |
| 4 | float | | | AI\_Ua | | 三相A相电流回路电压值|单相保留 |  | |  |
| 5 | float | | | BI\_Ub | | 三相B相电流回路电压值|单相保留 |  | |  |
| 6 | float | | | CI\_Uc | | 三相C相电流回路电压值|单相保留 |  | |  |
| 7 | float | | | AU\_Phia\_or\_Phi | | 三相A相电压回路相位角|单相电压回路相位角 |  | |  |
| 8 | float | | | BU\_Phib | | 三相B相电压回路相位角|单相保留 |  | |  |
| 9 | float | | | CU\_Phic | | 三相C相电压回路相位角|单相保留 |  | |  |
| 10 | string[] | | | FrameAry | | 输出报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：StartRemoteSignals

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **启动遥信输出** | | | | | |
| int StartRemoteSignals(int id, int YXTestNo, int YxTestType, int YxTestPulseNum, float yxTestPulseOutHz, float yxTestOutmultiple, out string[] FrameAry) | | | | | | | | |
| 输入参数： | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  |  |
| 2 | int | | | YXTestNo | | 遥信路数 |  |  |
| 3 | int | | | YxTestType | | 遥信输出方式 |  |  |
| 4 | int | | | YxTestPulseNum | | 脉冲个数 |  |  |
| 5 | float | | | yxTestPulseOutHz | | 脉冲输出频率 |  |  |
| 6 | float | | | yxTestOutmultiple | | 输出占控比 |  |  |
| 输出参数： | | | | | | | | |
| 1 | string[] | | | FrameAry | | 输出报文 |  |  |
| 返回值： | | | | | | | | |
|  | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | |  |  |
| 其它说明： | | | | | | | | |
| 无 | | | | | | | | |

### 函数：StartDCAnalog

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **启动直流模拟量输出** | | | | |
| int StartDCAnalog(int id, int Current, out string[] FrameAry) | | | | | | | |
| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
| 1 | int | | | Id | 误差板编号，从1开始 |  |  |
| 2 | int | | | Current | 直流模拟量采集电流 |  |  |
| 输出参数： | | | | | | | |
| 1 | string[] | | | FrameAry | 输出上行报文 |  |  |
| 返回值： | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 |  |  |
| 其它说明： | | | | | | | |
| 无 | | | | | | | |

### 函数：StopOutPut

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **停止遥信、或直流模拟量输出** | | | | |
| int StopOutPut(int id, int checkType, int chennNo, out string[] FrameAry) | | | | | | | |
| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
| 1 | int | | | Id | 误差板编号，从1开始 |  |  |
| 2 | int | | | checkType | 试验类型  0：遥信实验  1：直流模拟量采集实验 |  |  |
| 3 | int | | | chennNo | 遥信路数 |  |  |
| 输出参数： | | | | | | | |
| 1 | string[] | | | FrameAry | 输出上行报文 |  |  |
| 返回值： | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 |  |  |
| 其它说明： | | | | | | | |
| 无 | | | | | | | |

### 函数：ReadSignals

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取遥控信号** | | | | | | |
| int ReadSignals(int id, int YkCount,out int PusleCount, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 2 | int | | | YkCount | | 遥控路数 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | int | | | PusleCount | | 遥控个数 |  | |  |
| 2 | string[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：SetTripRelayType

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置跳闸继电器类型** | | | | | | | |
| int SetTripRelayType(int id, byte SwitchCommand, out string[] FrameAry) | | | | | | | | | | |
| 输入参数： | | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | | 误差板编号，从1开始 |  | |  |
| 2 | byte | | | SwitchCommand | | | 0 停止跳闸  1 启动跳闸试验 |  | |  |
| 输出参数： | | | | | | | | | | |
| 1 | string[] | | | FrameAry | | 输出上行报文 | |  | |  |
| 返回值： | | | | | | | | | | |
|  | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | | |  |  |
| 其它说明： | | | | | | | | | | |
| 无 | | | | | | | | | | |

### 函数：SetSecondaryRelayType

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置二次开路、二次短路继电器类型** | | | | | | |
| SetSecondaryRelayStatus(int id, byte bearRelayStatus, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | | 参数含义 | 单位 | 例子 |
| 1 | int | | | Id | | | 误差板编号，从1开始 |  |  |
| 2 | byte | | | bearRelayStatus | | | 0：复位状态  1：二次开路  2：二次短路 |  |  |
| 输出参数： | | | | | | | | | |
| 1 | string[] | | | FrameAry | | 输出上行报文 | |  |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：SetMotorMutexAndSpeed

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置电机互斥类型** | | | | | | |
| int SetMotorMutexAndSpeed(int id, int UpOrDown, int Option, int CalTime, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 2 | int | | | UpOrDown | | 0上限位|1下限位 |  | |  |
| 3 | int | | | Option | | 0递增延时时间|1递减延时时间 |  | |  |
| 4 | int | | | CalTime | | 需要递增或递减的延时时间(ms) | 毫秒 | |  |
| 输出参数： | | | | | | | | | |
| 1 | string[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：ReadMotorSpeed

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取电机速度** | | | | | | |
| int ReadMotorSpeed(int id, out int UpDelaytime, out int DownDelaytime,out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | | 单位 | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 | |  |  |
| 输出参数： | | | | | | | | | |
| 1 | int | | | UpDelaytime | | | 上限为延时时间 |  |  |
| 2 | int | | | DownDelaytime | | | 下限位延时时间 |  |  |
| 3 | String[] | | | FrameAry | | | 输出上行报文 |  |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：ReadTConnector

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取电流柱温度** | | | | | | |
| int ReadTConnector(int id, out string []Temperature,out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | string [] | | | Temperature | | 温度 |  | |  |
| 2 | string[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
|  | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：SetPulseChannelAndType

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置被检脉冲通道及检定类型** | | | | | | |
| int SetPulseChannelAndType(int Id, int pram1, int pram2, int pram3, int pram4, int pram5,out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
|  | int | | | Pram1 | | 电能误差通道号  0正有、1反有、2正无、  3反无、4需量、5时钟 |  | |  |
|  | int | | | Pram2 | | 光电头选择位  0脉冲盒、1光电头 |  | |  |
|  | int | | | Pram3 | | 脉冲极性：0表示公共端输出低电平（共阴），1表示公共端输出高电平（共阳） |  | |  |
|  | int | | | Pram4 | | 脉冲通道：0：电能检定脉冲  1：为日计时脉冲  2：为需量脉冲 |  | |  |
|  | int | | | Pram5 | | 检定类型：0：电能误差、  1：需量误差、  2：日计时误差、  3：电能走字试验、  4：对标、  5：预付费功能检定、  6：耐压实验  7：多功能脉冲计数试验 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | string[] | | | FrameAry | | 上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：SetSendFlag

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置获取请求报文标志** | | | | |
| IntSetSendFlag(bool Flag) | | | | | | | |
| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
| 1 | bool | | | Flag | True:发送报文,并传出报文,false:不发送,只传出报文 |  |  |
| 输出参数：无 | | | | | | | |
| 1 |  | | |  |  |  |  |
| 返回值： | | | | | | | |
| 1 | | int | |  | 0 成功，1 失败 |  |  |
| 其它说明： | | | | | | | |
| 无 | | | | | | | |

### 函数：UnPacket

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **解析下行报文** | | | | |
| intUnPacket(string MothedName,byte[]ReFrameAry, out string[] ReAry) | | | | | | | |
| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
| 1 | string | | | MothedName | 函数名(有出参FrameAry的函数的名称) |  | “Connect” |
| 2 | byte[] | | | ReFrameAry | 下行报文 |  |  |
| 输出参数： | | | | | | | |
| 1 | string[] | | | ReAry | 解析后的数据 |  |  |
| 返回值： | | | | | | | |
| 1 | | int | |  | 0 成功，1 失败 |  |  |
| 其它说明： | | | | | | | |
| 无 | | | | | | | |

### 函数：ReadPulseChannelAndType

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取被检脉冲通道及检定类型** | | | | | | |
| int ReadPulseChannelAndType(int id, out int pram1,out int pram2,out int pram3,out int pram4,out int pram5, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | int | | | pram1 | | 电能误差通道号  0正有、1反有、2正无、  3反无、4需量、5时钟 |  | |  |
| 2 | int | | | pram2 | | 光电头选择位  0脉冲盒、1光电头 |  | |  |
| 3 | int | | | pram3 | | 共因0、共阳1 |  | |  |
| 4 | int | | | pram4 | | 多功能误差通道号  0电能、1日计时、2需量 |  | |  |
| 5 | int | | | pram5 | | 检定类型  0电能、1需量、2日计时、  3脉冲、4对标、5预付费、  6耐压、7多功能脉冲计数 |  | |  |
| 6 | string[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：SetSelectCheckRoad

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置双回路命令** | | | | | |
| int SetSelectCheckRoad(int id, byte iroad, byte vroad, out string[] FrameAry) | | | | | | | | |
| 输入参数： | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  |  |
| 2 | byte | | | iroad | | 第一个电流回路 = 0  第二个电流回路 = 1 |  |  |
| 3 | byte | | | vroad | | 直接接入式 = 0  互感器接入式 = 1  本表位无电表接入 = 2 |  |  |
| 输出参数： | | | | | | | | |
| 1 | string[] | | | FrameAry | | 输出上行报文 |  |  |
| 返回值： | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | |  |  |
| 其它说明： | | | | | | | | |
| 无 | | | | | | | | |

### 函数：SetSelectLightStatus

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置光电头状态选择** | | | | | |
| int SetSelectLightStatus(int id, byte selecttype, out string[] FrameAry) | | | | | | | | |
| 输入参数： | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  |  |
| 2 | byte | | | selecttype | | 一对一模式485通讯 = 0  奇数表位485通讯 = 1  偶数表位485通讯 = 2  一对一模式红外通讯 = 3  奇数表位红外通讯 = 4  偶数表位红外通讯 = 5  切换到485总线 = 6 |  |  |
| 输出参数： | | | | | | | | |
| 1 | String[] | | | FrameAry | | 输出上行报文 |  |  |
| 返回值： | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | |  |  |
| 其它说明： | | | | | | | | |
| 无 | | | | | | | | |

### 函数：StartTest

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **启动检定** | | | | | | |
| int StartTest(int Id,int pram1,out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 2 | int | | | pram1 | | 检定类型：0：电能误差、  1：需量误差、  2：日计时误差、  3：电能走字试验、  4：对标、  5：预付费功能检定、  6：耐压实验  7：多功能脉冲计数试验 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | String[] | | | FrameAry | | 输出上行报文 | |  |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | |  | |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：StopTest

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **停止检定** | | | | | | |
| int StopTest(int Id,int verifyType,out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 2 | int | | | verifyType | | 检定类型：0：电能误差、  1：需量误差、  2：日计时误差、  3：电能走字试验、  4：对标、  5：预付费功能检定、  6：耐压实验  7：多功能脉冲计数试验 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | String[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：SetBwVolCutIsolation

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置表位电压电流隔离** | | | | | | |
| int SetBwVolCutIsolation(int id, int IsolationStatus, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 2 | int | | | IsolationStatus | | 继电器状态：  0：正常状态  1：隔离继电器闭合状态  2：同时闭合1回路隔离继电器与表位继电器，并且自动将回路选择继电器切换到1回路（做“表电流开路试验”使用）。当此值不为2时，回路会自动切换回0xAF指令设置的回路，不需要再发AFH指令切换。另外，三相台接收此值与隔离效果（值为1时）等效 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | String[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：ReadBwVolCutsolation

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取表位电压电流隔离状态** | | | | | | |
| int ReadBwVolCutsolation(int id, out int IsolationStatus, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | int | | | IsolationStatus | | 0：正常状态  1：隔离继电器闭合状态  2：同时闭合1回路隔离继电器与表位继电器，并且自动将回路选择继电器切换到1回路（做“表电流开路试验”使用）。当此值不为2时，回路会自动切换回0xAF指令设置的回路，不需要再发AFH指令切换。另外，三相台接收此值与隔离效果（值为1时）等效 |  | |  |
| 2 | int | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：SetACTVRelay

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置耐压继电器控制状态** | | | | | | |
| int SetACTVRelay(int id, byte highVoltageType, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 2 | byte | | | highVoltageType | | 0x00：复位状态（做非耐压检定试验时的继电器状态）  0x01：电压电流对地  0x02：电压对电流  0x03：Ia对Ib  0x04：Ib对Ic  0x05：Ia对Ic  0x06：电压电流对电源 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | string[] | | | FrameAry | | 输出报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：ReadACTVRelay

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取耐压继电器控制状态** | | | | | | |
| int ReadACTVRelay(int id, out byte highVoltageType, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 2 | byte | | | highVoltageType | | 0x00：复位状态（做非耐压检定试验时的继电器状态）  0x01：电压电流对地  0x02：电压对电流  0x03：Ia对Ib  0x04：Ib对Ic  0x05：Ia对Ic  0x06：电压电流对电源 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | string[] | | | FrameAry | | 输出报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：ReadCurrentData

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取误差板当前误差及当前状态** | | | | | | | |
| int ReadCurrentData(int id, byte wcbVerifyType, out byte verificationType, out int MeterIndex, out int ErrorNum, out string wcData, out bool[] statusType, out byte CurrentContour, out byte VoltageContour, out byte CommunicationType, out bool[] workType, out byte expandStatus, out string[] FrameAry) | | | | | | | | | | |
| 输入参数： | | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 | |  | |  |
| 2 | byte | | | wcbVerifyType | | 电能误差 = 0,  需量周期误差 = 1,  日计时误差 = 2,  脉冲个数 = 3,  对标状态 = 4 | |  | |  |
| 输出参数： | | | | | | | | | | |
| 1 | byte | | | verificationType | | | 电能误差 = 0,  需量误差 = 1,  日计时误差 = 2,  脉冲计数 = 3,  对标 = 4,  预付费功能检定 = 5,  耐压实验 = 6,  多功能脉冲计数试验 = 7 |  | |  |
| 2 | int | | | MeterIndex | | | 表位编号 |  | |  |
| 3 | int | | | ErrorNum | | | 误差次数 |  | |  |
| 5 | string | | | wcData | | | 误差 |  | |  |
| 6 | bool[] | | | statusType | | | 1.接线故障状态  2.预付费状态  3.报警信号状态  4.对标状态  5.温度过高状态  6.光电信号状态 有表还是没有表  7.表位上限位状态  8.表位下限位状态 |  | |  |
| 7 | byte | | | CurrentContour | | | 第一个电流回路 = 0  第二个电流回路 = 1 |  | |  |
| 8 | byte | | | VoltageContour | | | 直接接入式 = 0,  互感器接入式 = 1  本表位无电表接入 = 2 |  | |  |
| 9 | byte | | | CommunicationType | | | 通讯口状态  0表示选择第一路普通485通讯  1表示选择第二路普通485通讯  2表示选择红外通讯 |  | |  |
| 10 | bool[] | | | workType | | | 0电能误差  1需量周期  2日计时  3多功能走字  4对标  5预付费  6耐压  7多功能脉冲计数 |  | |  |
| 11 | byte | | | expandStatus | | | 0：正常 1：不正常 |  | |  |
| 12 | string[] | | | FrameAry | | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | | |  |  |
| 其它说明： | | | | | | | | | | |
| 无 | | | | | | | | | | |

### 函数：ReadFirstTenTimesData

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取前10次误差及当前状态** | | | | | |
| int ReadFirstTenTimesData(int id, byte wcbVerifyType, out byte verificationType, out int MeterIndex, out int ErrorNum, out string[] wcDatas, out string wcData, out bool[] statusType, out byte CurrentContour, out byte VoltageContour, out byte CommunicationType, out bool[] workType, out string[] FrameAry) | | | | | | | | |
| 输入参数： | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | | 单位 | 例子 |
| 1 | int | | | Id | 误差板编号，从1开始 | |  |  |
| 2 | byte | | | wcbVerifyType | 电能误差 = 0,  需量周期误差 = 1,  日计时误差 = 2,  脉冲个数 = 3,  对标状态 = 4 | |  |  |
| 输出参数： | | | | | | | | |
| 1 | byte | | | verificationType | | 电能误差 = 0,  需量误差 = 1,  日计时误差 = 2,  脉冲计数 = 3,  对标 = 4,  预付费功能检定 = 5,  耐压实验 = 6,  多功能脉冲计数试验 = 7 |  |  |
| 2 | int | | | MeterIndex | | 表位编号 |  |  |
| 3 | int | | | ErrorNum | | 误差次数 |  |  |
| 4 | int | | | wcDatas | | 10次误差 |  |  |
| 5 | string | | | wcData | | 当前误差 |  |  |
| 6 | bool[] | | | statusType | | 1.接线故障状态  2.预付费状态  3.报警信号状态  4.对标状态  5.温度过高状态  6.光电信号状态 有表还是没有表  7.表位上限位状态  8.表位下限位状态 |  |  |
| 7 | byte | | | CurrentContour | | 第一个电流回路 = 0  第二个电流回路 = 1 |  |  |
| 8 | byte | | | VoltageContour | | 直接接入式 = 0,  互感器接入式 = 1  本表位无电表接入 = 2 |  |  |
| 9 | byte | | | CommunicationType | | 通讯口状态  0表示选择第一路普通485通讯  1表示选择第二路普通485通讯  2表示选择红外通讯 |  |  |
| 10 | bool[] | | | workType | | 0电能误差  1需量周期  2日计时  3多功能走字  4对标  5预付费  6耐压  7多功能脉冲计数 |  |  |
| 11 | string[] | | | FrameAry | | 输出上行报文 |  |  |
| 返回值： | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | |  |  |
| 其它说明： | | | | | | | | |
| 无 | | | | | | | | |

### 函数：ReSetStatus

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **清除表位状态** | | | | | | |
| int ReSetStatus(int id, byte statusType, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | | 单位 | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 | |  |  |
| 2 | byte | | | statusType | | 1：清除接线故障状态  2：清除预付费跳闸状态  3：清除报警信号状态（暂时未使用）  4：保留  5：清除温度过高故障状态 | |  |  |
| 输出参数： | | | | | | | | | |
| 1 | string[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | |  | |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：ReadVersion

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取当前版本** | | | | | | |
| int ReadVersion(int id, out int MeterIndex, out string strVersion, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | int | | | MeterIndex | | 表位编号 |  | |  |
| 2 | string | | | strVersion | | 版本号 |  | |  |
| 3 | string[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：ReadPrintInformation

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取打印信息** | | | | | | |
| int ReadPrintInformation(int id,int Modid, out byte dataSerial, out byte dataLen,out byte [] dataAry, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 2 | int | | | Modid | | 0值：代表读取“接收到该命令的设备”的DEBUG信息  非0值：读取“接收到该命令的设备”的下级设备DEBUG信息。其中指定模块表位号的值代表想要读取的下级设备的表位号（2级级联） |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | byte | | | dataSerial | | 数据序列号 |  | |  |
| 2 | byte | | | dataLen | | 数据长度 |  | |  |
| 3 | byte [] | | | dataAry | | DEBUG数据  每条命令最大携带128字节DEBUG数据，如DEBUG数据实际长度超出此范围，则只发送128字节数据，剩余的由下一条命令传输 |  | |  |
| 4 | string[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：SetEnergePulseParams

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置电能误差检定时脉冲参数** | | | | | | |
| int SetEnergePulseParams(int id, int stdMeterConst, int stdPulseFreq, int stdMeterConstShorttime, int meterConst, int circles, int meterConstZooms, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 2 | int | | | stdMeterConst | | 标准表常数 |  | |  |
| 3 | int | | | stdPulseFreq | | 标准脉冲频率 |  | |  |
| 4 | int | | | stdMeterConstShorttime | | 标准缩放倍数 |  | |  |
| 5 | int | | | meterConst | | 被检表常数 |  | |  |
| 6 | int | | | circles | | 校验圈数 |  | |  |
| 7 | int | | | meterConstZooms | | 被检表常数缩放倍数 |  | |  |
| 输出参数： | | | | | | | | | |
|  | string[] | | | FrameAry | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：ReadPulseParam

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取电能误差检定时脉冲参数** | | | | | | | |
| int ReadEnergePulseParams(int id, out int stdMeterConst,  out int stdMeterConstShorttime,  out int meterConst, out int circles,  out int meterConstZooms, out string[] FrameAry) | | | | | | | | | | |
| 输入参数： | | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 | |  | |  |
| 输出参数： | | | | | | | | | | |
| 1 | int | | | stdMeterConst | | | 标准表常数 |  | |  |
| 2 | int | | | stdMeterConstShorttime | | | 标准缩放倍数 |  | |  |
| 3 | int | | | meterConst | | | 被检表常数 |  | |  |
| 4 | int | | | circles | | | 校验圈数 |  | |  |
| 5 | int | | | meterConstZooms | | | 被检表常数缩放倍数 |  | |  |
| 6 | string[] | | | FrameAry | | | 输出上行报文 |  | |  |
| 返回值： | | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | | |  |  |
| 其它说明： | | | | | | | | | | |
| 无 | | | | | | | | | | |

### 函数：SetClockFrequency

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置日计时检定时钟频率及需量周期检定时间** | | | | | |
| int SetClockFrequency(int id, int stdMeterTimeFreq,  int meterTimeFreq, int meterPulseNum, out string[] FrameAry) | | | | | | | | |
| 输入参数： | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  |  |
| 2 | int | | | stdMeterTimeFreq | | 标准时钟频率100倍 |  |  |
| 3 | int | | | meterTimeFreq | | 当在做需量误差时，该参数就为需量时间周期的100倍 |  |  |
| 4 | int | | | meterPulseNum | | 校验脉冲个数 |  |  |
| 输出参数： | | | | | | | | |
| 5 | string[] | | | FrameAry | | 输出上行报文 |  |  |
| 返回值： | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | |  |  |
| 其它说明： | | | | | | | | |
| 无 | | | | | | | | |

### 函数：ReadClockFrequency

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取日计时检定时钟频率及需量周期检定时间** | | | | | | |
| int ReadClockFrequency(int id, out int stdMeterTimeFreq, out int meterTimeFreq, out int meterPulseNum, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | int | | | stdMeterTimeFreq | | 标准表时钟频率 |  | |  |
| 2 | int | | | meterTimeFreq | | 被检表时钟频率 |  | |  |
| 3 | int | | | meterPulseNum | | 被检表脉冲常数 |  | |  |
| 4 | string[] | | | FrameAry | | 上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：SetACTVLeakCurrentThresholdValue

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置耐压实验的漏电流阈值** | | | | | | |
| int SetACTVLeakCurrentThresholdValue(int id, int iCurrentLimit, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  | |  |
| 2 | int | | | iCurrentLimit | | 漏电流阀值 | 毫安 | | 35 |
| 输出参数： | | | | | | | | | |
| 1 | string[] | | | FrameAry | | 上行报文 |  | |  |
|  | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：ReadACTVLeakCurrentThresholdValue

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取耐压实验的漏电流阈值** | | | | | |
| int ReadACTVLeakCurrentThresholdValue(int id, out int iCurrentLimit,  out string[] FrameAry) | | | | | | | | |
| 输入参数： | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | 例子 |
| 1 | int | | | Id | | 误差板编号，从1开始 |  |  |
| 输出参数： | | | | | | | | |
| 1 | int | | | iCurrentLimit | | 漏电流阀值 | 毫安 | 35 |
| 2 | string[] | | | FrameAry | | 上行报文 |  |  |
| 返回值： | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | |  |  |
| 其它说明： | | | | | | | | |
| 无 | | | | | | | | |

### 函数：ControlMotor

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **电机控制** | | | | | | |
| int ControlMotor(int id, byte electricalMachineMode, out string[] FrameAry) | | | | | | | | | |
| 输入参数： | | | | | | | | | |
| 序号 | 类型 | | | 参数名称 | | 参数含义 | 单位 | | 例子 |
| 1 | int | | | id | | 误差板编号，从1开始 |  | |  |
| 2 | byte | | | electricalMachineMode | | 电机控制类型  0=电机伸  1=电机缩  2=电机停 |  | |  |
| 输出参数： | | | | | | | | | |
| 1 | string[] | | | FrameAry | | 上行报文 |  | |  |
| 返回值： | | | | | | | | | |
| 1 | | int | |  | 0 成功，1设备返回失败2数据发送失败,-1 异常 | | |  |  |
| 其它说明： | | | | | | | | | |
| 无 | | | | | | | | | |

### 函数：

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | |  | | | | |
| int | | | | | | | |
| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
|  |  | | |  |  |  |  |
| 输出参数： | | | | | | | |
|  |  | | |  |  |  |  |
| 返回值： | | | | | | | |
|  | | int | |  | A return value of 0 (zero) indicates the function was executed properly and the CLOU device accepted the command.  A non-zero return usually indicates either a communication error. Refer to the list of error code definitions for specifics. |  |  |
| 其它说明： | | | | | | | |
| 无 | | | | | | | |

### 函数：

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | |  | | | | |
| int | | | | | | | |
| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
|  |  | | |  |  |  |  |
| 输出参数： | | | | | | | |
|  |  | | |  |  |  |  |
| 返回值： | | | | | | | |
|  | | int | |  | A return value of 0 (zero) indicates the function was executed properly and the CLOU device accepted the command.  A non-zero return usually indicates either a communication error. Refer to the list of error code definitions for specifics. |  |  |
| 其它说明： | | | | | | | |
| 无 | | | | | | | |

### 函数：

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | |  | | | | |
| int | | | | | | | |
| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
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| **功能：** | | |  | | | | |
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| 输入参数： | | | | | | | |
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| **功能：** | | |  | | | | |
| int | | | | | | | |
| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
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| **功能：** | | |  | | | | |
| int | | | | | | | |
| 输入参数： | | | | | | | |
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| **功能：** | | |  | | | | |
| int | | | | | | | |
| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
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| 其它说明： | | | | | | | |
| 无 | | | | | | | |

## 调用方法

VB：

1. Add References

Project –> References… -> Browse… -> Select E\_CLxxx.tlb ->Open(O) -> OK

1. Code

Dim cc As New E\_CLxxx.CLxxx

Dim r As Integer

r = cc.InitSetting(33, 3000, "193.168.18.1", 10003, 20000)

C++:

1. Copy “E\_CLxxx.tlb”to".\Debug\ "
2. Code

#include "stdafx.h"

#include <iostream>

#import ".\Debug\E\_CLxxx.tlb"

using namespace std;

using namespace E\_CLxxx;

int main(intargc, char\* argv[])

{

HRESULT hr;

hr=CoInitialize(NULL);

cout<<hr<<endl;

IClass\_InterfacePtrptr;

hr=ptr.CreateInstance("CLOU.CLxxx");

if(0==hr)

{

cout<<hr<<endl;

}

else

{

cout<<hr<<" Instantiation failure!"<<endl;

}

if(0==hr)

{

hr=ptr->InitSetting(33, 3000, "193.168.18.1", 10003, 20000);

cout<<hr<<endl;

hr=ptr->Connect();

cout<<hr<<endl;

hr=ptr->PowerOn((E\_CLxxx::Cus\_Clfs)0, 57, 0, (E\_CLxxx::Cus\_PowerYuanJiang)1, (E\_CLxxx::Cus\_PowerFangXiang)1, "1.0");

cout<<hr<<endl;

hr=ptr->PowerOff();

cout<<hr<<endl;

}

CoUninitialize();

return 0;

}

C#:

1.References the “E\_CLxxx.dll”