**CL188L 误差板DLL接口说明**

**E\_CL188L.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

### 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** | | | | |
| **int InitSetting** (**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 |  |  |  |
|  | int | | MaxWaitTme |  |  |  |
|  | int | | WaitSencondsPerByte |  |  |  |
|  | string | | IP |  |  |  |
|  | int | | RemotePort |  |  |  |
|  | int | | LocalStartPort |  |  |  |
| 输出参数：无 | | | | | | |
|  |  | |  |  |  |  |
| 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：InitSettingCom

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | **初始化参数** | | | | |
| **int InitSettingCom** (**int** ComNumber, **int** MaxWaitTme, **int** WaitSencondsPerByte) | | | | | | |
| 输入参数： | | | | | | |
| 序号 | 类型 | | 参数名称 | 参数含义 | 单位 | 例子 |
|  | int | | ComNumber |  |  |  |
|  | int | | MaxWaitTme |  |  |  |
|  | int | | WaitSencondsPerByte |  |  |  |
| 输出参数：无 | | | | | | |
|  |  | |  |  |  |  |
| 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：Connect

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | **连接设备** | | | | |
| **int Connect()** | | | | | | |
| 输入参数： | | | | | | |
| 序号 | 类型 | | 参数名称 | 参数含义 | 单位 | 例子 |
|  |  | |  |  |  |  |
| 输出参数：无 | | | | | | |
|  |  | |  |  |  |  |
| 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：DisConnect()

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | **断开连接** | | | | |
| **int** **DisConnect()** | | | | | | |
| 输入参数：无 | | | | | | |
| 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：UpdateLogin

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **远程升级登录** | | | | | | | | |
| **int** | | | | | | | | | | | |
| 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 | |
|  | |  | | |  | |  | |  |  | |
| 输出参数：无 | | | | | | | | | | | |
|  | |  | | |  | |  | |  |  | |
| 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：ReStart

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **重启误差板** | | | | | | | | |
| int ReStart | | | | | | | | | | | |
| 输入参数： | | | | | | | | | | | |
| 序号 | | 数据类型 | | | 参数名称 | | 参数含义 | | 参数单位 | 例子 | |
|  | |  | | |  | |  | |  |  | |
| 输出参数：无 | | | | | | | | | | | |
|  | |  | | |  | |  | |  |  | |
| 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：UpdateFirmware

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **远程升级固件** | | | | | | | | |
| int | | | | | | | | | | | |
| 输入参数： | | | | | | | | | | | |
| 序号 | | 数据类型 | | | 参数名称 | | 参数含义 | | 参数单位 | 例子 | |
|  | |  | | |  | |  | |  |  | |
| 输出参数：无 | | | | | | | | | | | |
|  | |  | | |  | |  | |  |  | |
| 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：UpdateLogin2

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **远程升级2级设备登录** | | | | | | | | |
| int | | | | | | | | | | | |
| 输入参数： | | | | | | | | | | | |
| 序号 | | 数据类型 | | | 参数名称 | | 参数含义 | | 参数单位 | 例子 | |
|  | |  | | |  | |  | |  |  | |
| 输出参数：无 | | | | | | | | | | | |
|  | |  | | |  | |  | |  |  | |
| 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：ReStart2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **重启2级设备** | | | | |
| 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：UpdateFirmware2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **远程升级2级设备固件** | | | | |
| 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：ReadVersion2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取2级设备版本** | | | | |
| 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：ReadPowerParams

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取功耗参数** | | | | |
| 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：StartRemoteSignals

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **启动遥信输出** | | | | |
| 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：StartDCAnalog

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **启动直流模拟量输出** | | | | |
| 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：StopOutPut

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **停止遥信、或直流模拟量输出** | | | | |
| 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：ReadSignals

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取遥控信号** | | | | |
| 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：SetTripRelayType

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置跳闸继电器类型** | | | | |
| 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：SetSecondaryRelayType

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置二次开路、二次短路继电器类型** | | | | |
| 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：SetMotorMutex

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置电机互斥类型** | | | | |
| 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：SetMotorSpeed

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置电机速度** | | | | |
| 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：ReadTConnector

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **读取电流柱温度** | | | | |
| 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：Set

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **功能：** | | | **设置被检脉冲通道及检定类型** | | | | |
| 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：

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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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| 输出参数： | | | | | | | |
|  |  | | |  |  |  |  |
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| 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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| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
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| 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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| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
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| 输入参数： | | | | | | | |
| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
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| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
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| 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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| 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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| 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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| 序号 | 类型 | | | 参数名称 | 参数含义 | 单位 | 例子 |
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## 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(int argc, char\* argv[])

{

HRESULT hr;

hr=CoInitialize(NULL);

cout<<hr<<endl;

IClass\_InterfacePtr ptr;

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”