HDP135V Remote Control DLL Instruction

1. Library file description

The DLL file is developed in C++ language and encapsulates the relevant functions of the PC-side software to remotely control the HDP135V6S power supply device. By calling the library file, it is convenient for users to write custom codes to communicate with the device.

1. Library function description

All parameters use standard units (A, V).

//Initialize the CSerialPort instance. Before calling the library file function, the initialization function must be called first, and the return value must be guaranteed to be “true” before it can be used.

\_\_DLL\_EXP bool InitSerialPort(BYTE com);

//Set the output voltage. Parameter value: delivered value. Returns whether the operation was successful.

\_\_DLL\_EXP bool SetVoltag(float value);

//Read the set voltage of the device. Parameter readData: read value. Returns whether the operation was successful.

\_\_DLL\_EXP bool ReadVoltag\_set(float& readData);

// Read the readback voltage of the device. Parameter readData: read value. Returns whether the operation was successful.

\_\_DLL\_EXP bool ReadVoltag\_measure(float& readData);

// Set the output current. Parameter value: delivered value. Returns whether the operation was successful.

\_\_DLL\_EXP bool SetCurrent(float value);

// Read the set current of the device. Parameter readData: read value. Returns whether the operation was successful.

\_\_DLL\_EXP bool ReadCurrent\_set(float& readData);

// Read the readback current of the device. Parameter readData: read value. Returns whether the operation was successful.

\_\_DLL\_EXP bool ReadCurrent\_measure(float& readData);

// Set the device output state. Parameter state: Delivered output state. Returns whether the operation was successful.

\_\_DLL\_EXP bool SetPowerSwitch(bool state);

// Read device output status. Parameter readState: read the output state. Returns whether the operation was successful.

\_\_DLL\_EXP bool ReadPowerSwitch(bool& readState);

// Set the device ID number. Parameter id: delivered value. Returns whether the operation was successful.

\_\_DLL\_EXP bool SetDeviceID(UCHAR id);

// Read the device ID number. Parameter id: read value. Returns whether the operation was successful.

\_\_DLL\_EXP bool ReadDeviceID(UCHAR& id);

//Set the overvoltage protection voltage. Parameter value: delivered value. Returns whether the operation was successful.

\_\_DLL\_EXP bool SetOVP(float value);

//Read the overvoltage protection voltage. Parameter value: read value. Returns whether the operation was successful.

\_\_DLL\_EXP bool ReadOVP(float& readData);

//Set the OVP switch state. Parameter state: delivered value. Returns whether the operation was successful.

\_\_DLL\_EXP bool SetOVPSwitch(bool state);

//Read the OVP switch status. Parameter readState: read value. Returns whether the operation was successful.

\_\_DLL\_EXP bool ReadOVPSwitch(bool& readState);

// Set the overcurrent protection current. Parameter value: delivered value. Returns whether the operation was successful.

\_\_DLL\_EXP bool SetOCP(float value);

// Read the overcurrent protection current. Parameter value: read value. Returns whether the operation was successful.

\_\_DLL\_EXP bool ReadOCP(float& readData);

// Set the OCP switch state. Parameter state: delivered value. Returns whether the operation was successful.

\_\_DLL\_EXP bool SetOCPSwitch(bool state);

// Read the OCP switch status. Parameter readState: read value. Returns whether the operation was successful.

\_\_DLL\_EXP bool ReadOCPSwitch(bool& readState);