

PM5350 遠端通訊 Reset數值

可通過通訊遠端清除幾個項目

1.Reset All Min/Max (最大/最小值)

2.Reset All Energies (KW...等)

3.Reset All Accumulated Energies (累積的KWH...等)

請參考以下方式

先查詢操作手冊 中文Page84開始、英文page81開始、Modbus register list-command 索引頁

在Modbus register list-command 索引頁可查詢到命令接口的點位

Reset All Min/Max 的commad munber為2009

Reset All Energies 的commad munber為2020

Reset All Accumulated Energies的commad munber為2021

然後首先讀取5680寄存器的信號量數據，然後分別將命令和該信號量數據寫至寄存器5000和5001。

測試前需要確認軟體讀寫寄存器是否需要做+1或者-1的處理(電錶會有偏移的現象)

EX:Reset All Min/Max

可用Modbus Poll 軟體將位置5679 回傳值讀出後(EX:1234)

在命令保護模式下位置:4999寫入2009(Reset All Min/Max) 位置:5000寫入1234後
PM5350就可靠通訊Reset All Min/Max

其他Reset All Energies、Reset All Accumulated Energies如同一樣的方法

使用SCADA軟體進行reset操作時，需要聯繫廠家按照以上步驟進行相關配置

Protected Command Interface

(1)當使用Protected Command Interface實現Reset功能時，讀取暫存器5680的數據必須為非零的數值時，才可以完成Reset

Using the Protected Command Interface

To issue a meter command using the protected command interface, you must have a command semaphore.

To get a semaphore, read the semaphore Modbus register (see the "Command Interface" section of the online "Register List" on page 64). The power meter will return a 0 or a nonzero number.

- If 0 is returned, someone else owns the semaphore. You must wait for the semaphore to be available before sending a command.
- If a nonzero number is returned, you now own the semaphore. The semaphore is provided once until it is released or has been inactive for approximately 4 minutes. Once you have the semaphore, subsequent reads of the semaphore register will return 0 until you release the semaphore or it times out.

To send a meter command using the protected command interface:

1. Read the semaphore register and record the meter response. This is your semaphore.
2. Build the packet to be written to the command block.
3. Write the packet as a Modbus block write (enter the command number, semaphore, and parameters at the same time).

所以只有要等讀到5680為非零值的時候，Reset指令才可以完成。

Step 1: Get the Semaphore

Modbus Poll accept register number as (Register number - 1) , thus in this example Address is given as **5679** instead of giving **5680**. Quantity need to be given as 1. Then Click on "Read Once". Please note reading operation need to be performed once to get the semaphore . Doing more than once will cause in error. If by mistake the operation is performed more than one time then it is advised to try to do the operation again after 3 min and during this 3 min time no communication should take place with the meter. Select "Unsigned 16" data type.

Please note, during this time no other communication with the meter should run in the background. Otherwise it may cause in error.

所以Reset功能是正常的。

如果不需要這麼麻煩，可以使用Unprotected Command Interface(非保護命令窗口)來進行通訊Reset，此時不需要5680暫存器中的值，即直接將命令寫入5250，將0寫入5251即可。

這樣就電錶就不用重新斷電/恢復 才可下達Reset

請參考說明如下(2)

(2)We can reset the energyvalue via modbus using unprotected command interface, but use unprotected commands (starts with 5250 = command number, 5251 =0).

Also refer the column **K** in the **Commands** worksheet to check whether all the commands supports unprotected command interface.