9834
Operation Manual

S/N：900983401　REV:E

9834 Operation Manual Menu

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一、 Introduction

The main functions of the 9834 software are used to measure control, edit test steps and receive test data. The test step can be set to test, and the test can be started or stopped, or when it is stopped, the system will automatically set DC Load to OFF, allowing users to operate with peace of mind to avoid the risk of electric shock

二、 System requirements

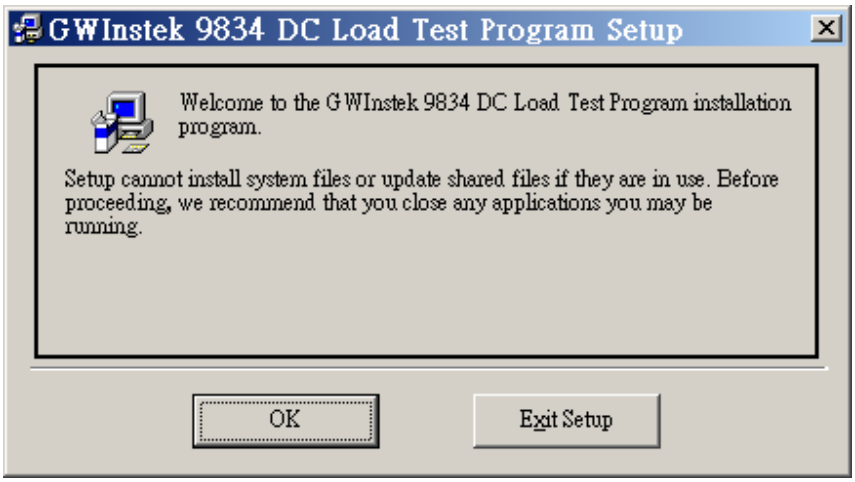
1. Personal computer
   a. Operation System : Windows 7
   b. Display Card：resolution 1280*800
   c. Display：18.5” resolution 1280*800
   d. Mouse
   e. Keyboard
   f. Hard Disk Space：above 500Gbytes
   g. Memory：above 4Gbytes

2. GWInstek AC/DC Electronics Load，used for function

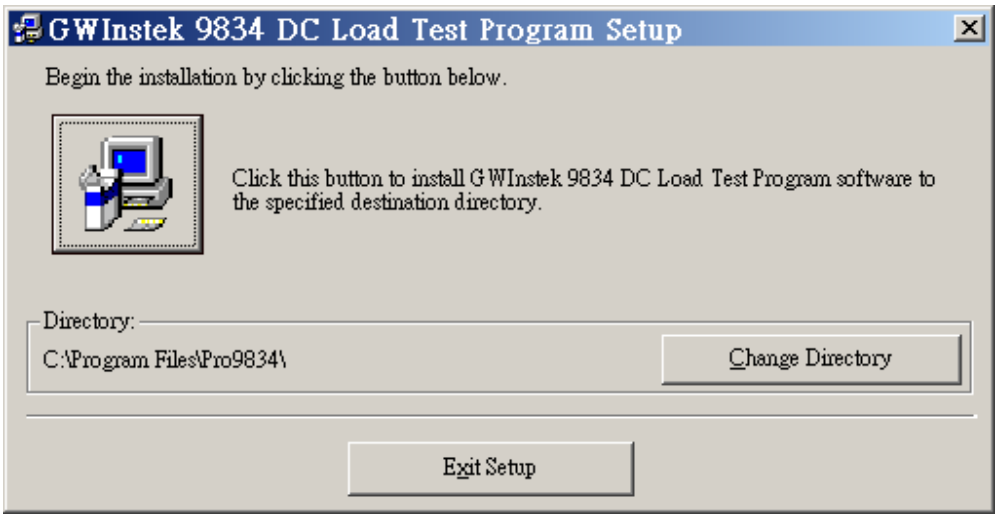
三、 9834 Software Installation

9834 software has a total of 1 CD, the installation steps are as follows

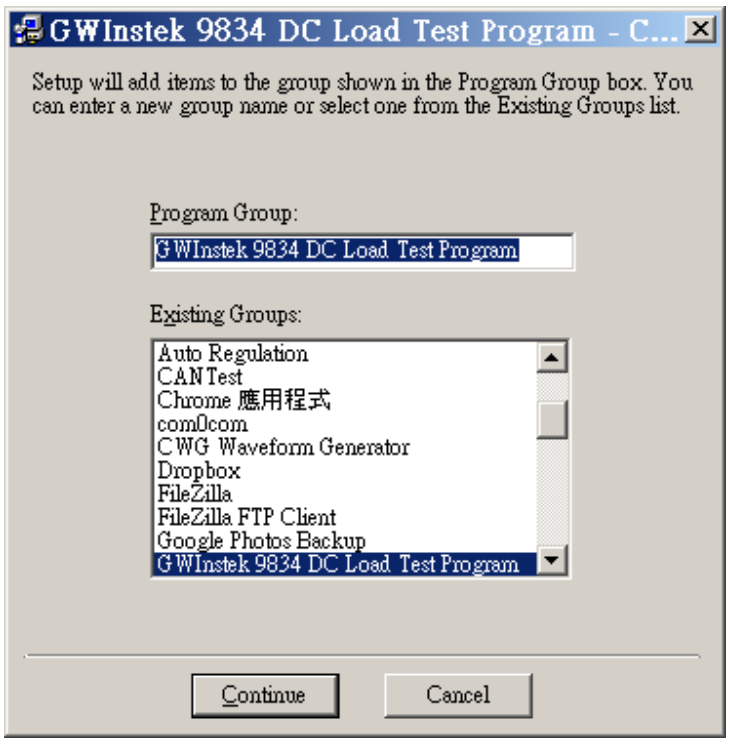
1. Boot the computer to the Windows screen.
2. Insert the CD into the root directory and execute Setup.exe, the following screen will appear.



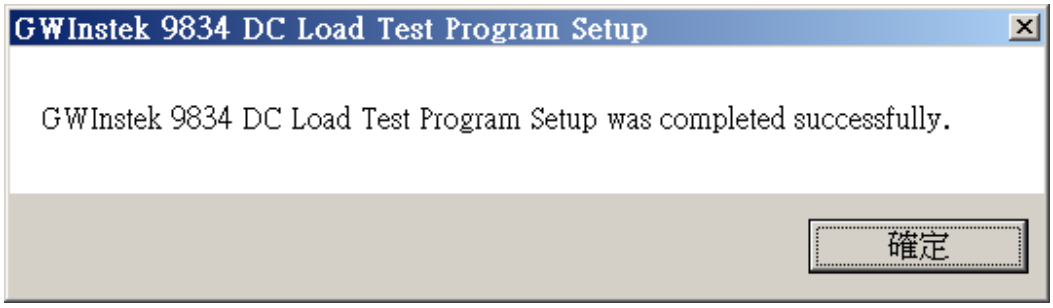
3. It is recommended to change the directory to D:\Pro9834 and follow the installation diagram to install.



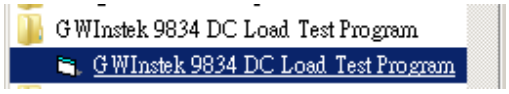
4. After selecting the path, press "Continue" to proceed with the installation.



5. After the installation is complete, the following screen will be displayed, please press "OK".

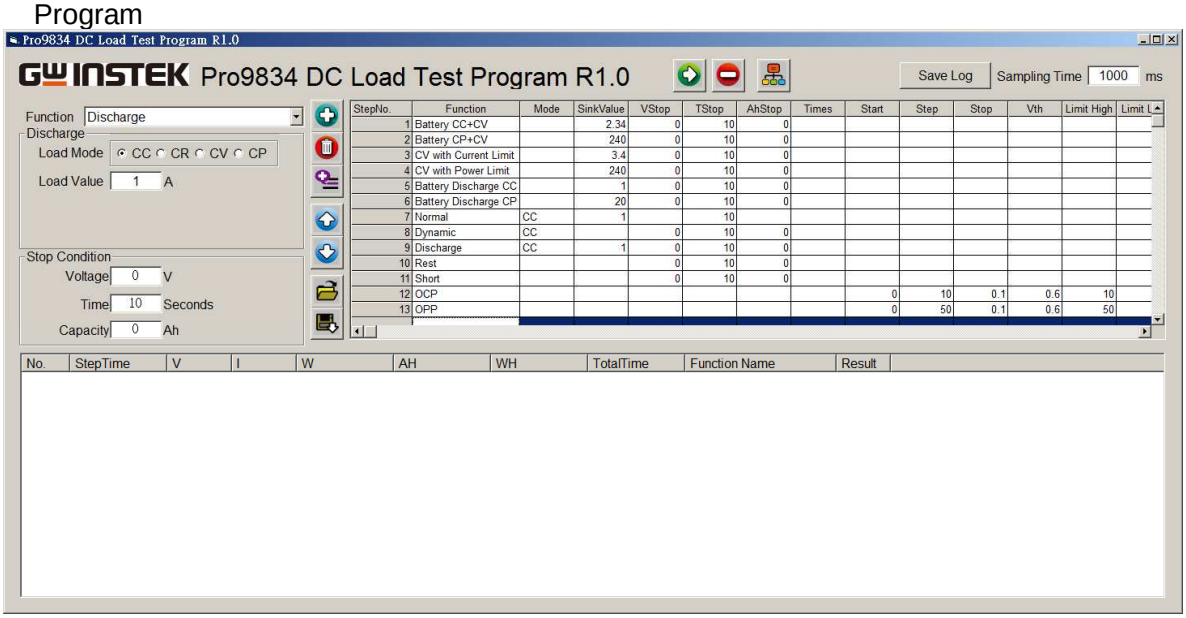


6. Press the start button on the Windows screen → select GWInstek 9834 DC Load Test Program in the program → press GWInstek 9834 DC Load Test Program to execute.



四、 9834 operating instructions

1. Main page
   a. Run the assembly\GWInstek 9834 DC Load Test Program\GWInstek 9834 DC Load Test Program



2. Main screen function

   a. START : Start the test, and start recording the test data in the file, the file name is the same as the SN serial number.

   b. STOP : Stop the test, AC/DC Load is OFF. When the test is restarted, it will restart from the beginning.

   c. Connect Setup : Device connection setting, which can be set for AC/DC Load.

   d. Addition : A new test step is added after the last test step, up to 320 test steps.

   e. Delete : Delete a test step.

   f. Insert : Insert a test step after the currently selected test step, up to 320 test steps.

   g. Move Up Step : Move up the designated Step.

h. Move Down Step : Move down the designated Step.

i. Open Test Step : Load an existing test step file.

j. Save Test Step : Save the test step settings to the specified file.

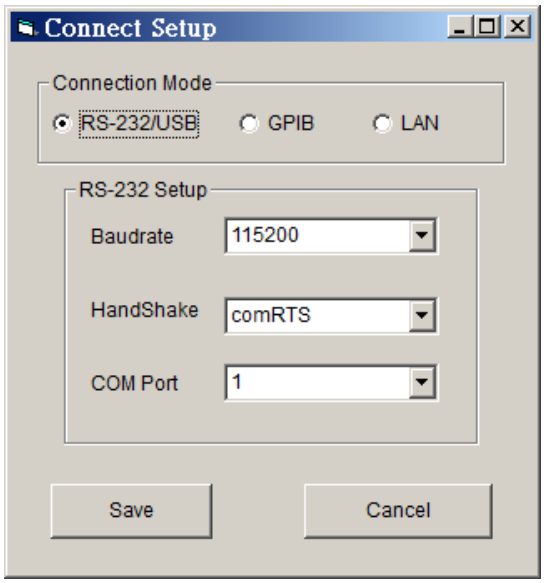
k. Measurement Value

A. Step Time：NowTime
B. V：Output Voltage
C. I：Output Current
D. W：Power
E. Ah：Amp hour
F. Wh：Watt hour
G. TotalTime: No Time
H. Function Name : Work function name
I. Result : Test Result. (OCP, OPP)

3. Connection setting page

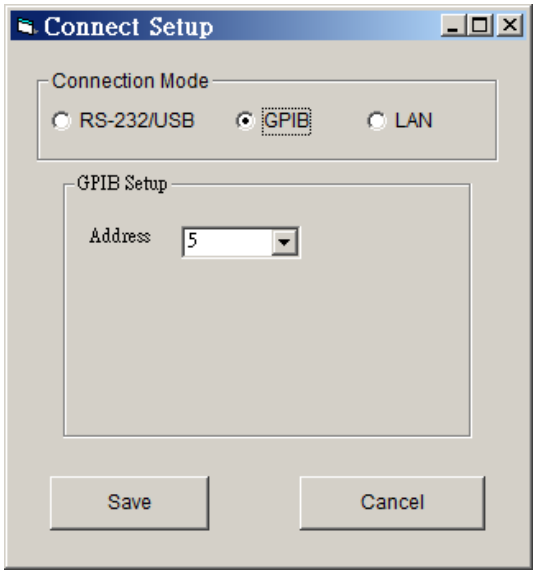
a. Connect Mode
RS-232/USB
GPIB
LAN

A. RS-232 Setup



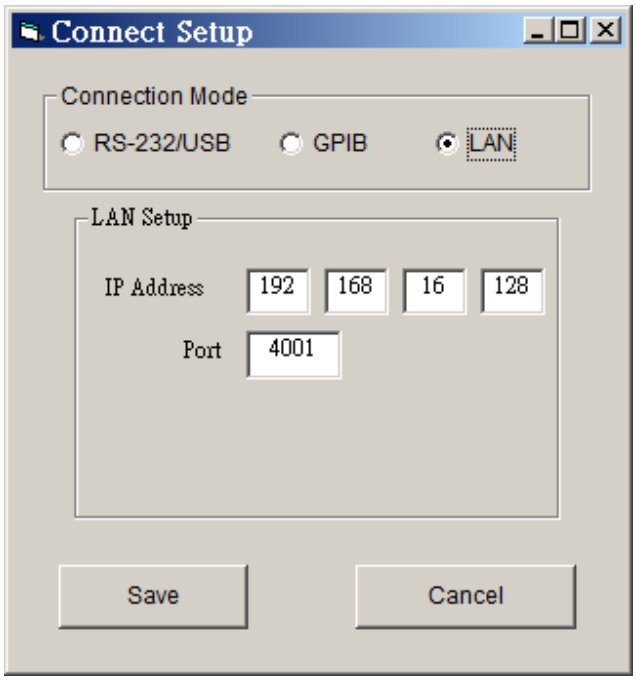
Baud Rate : Communication rate, default is 115200。
HandShake : comRTS
COM : RS232 communication port, default is 1

B. GPIB



Address : default is 5

C. LAN



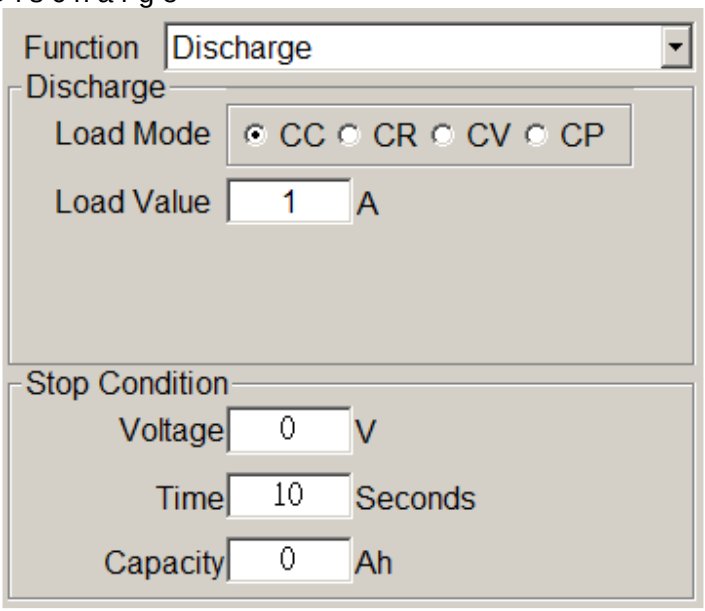
IP Address : default is 192.168.16.128
Port : default is 4001

b. Save : Save the connection settings

c. Cancel : Cancel the Setting

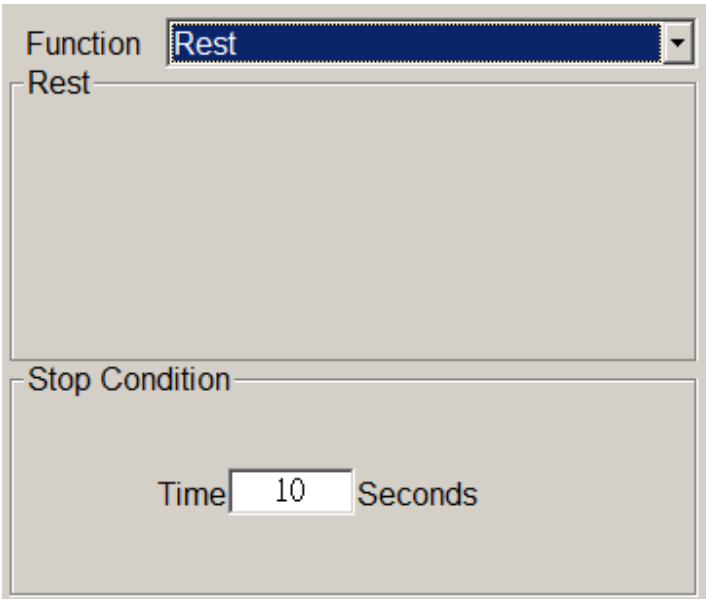
4. Test Function

a. Discharge



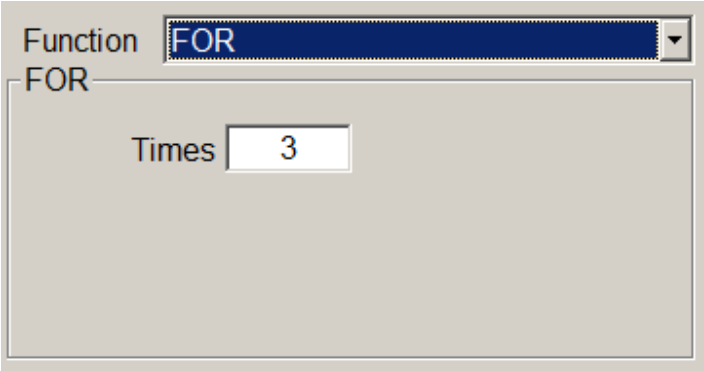
Load Mode : select mode CC,CR,CV,CP
Load Value : set sink value
Stop Condition:
Voltage : stop voltage
Time : work time
Capacity : Adding Capacity Ah

b. Rest



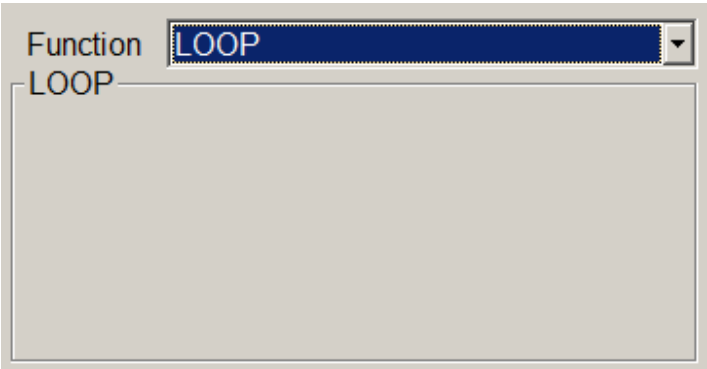
Stop Condition:
Time : work time

c. FOR

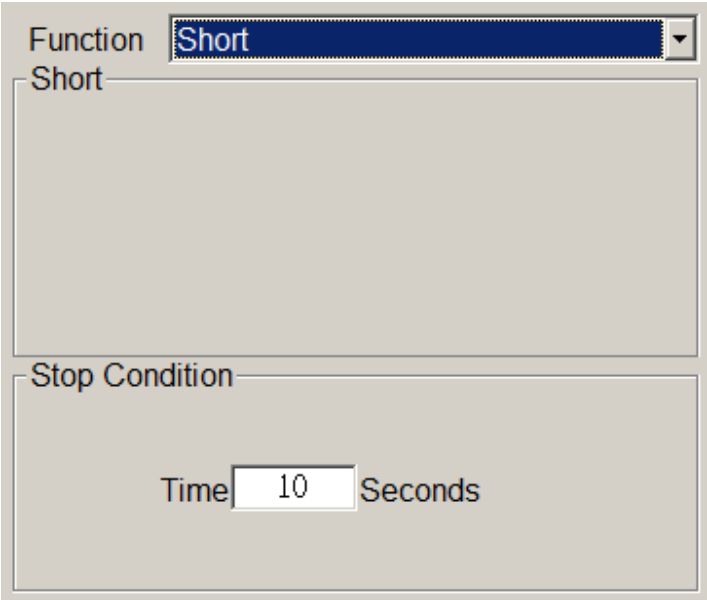


Times : loop times

d. LOOP



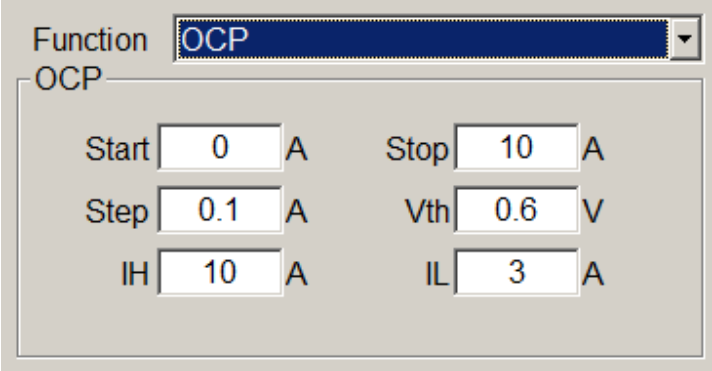
e. Short



Stop Condition:

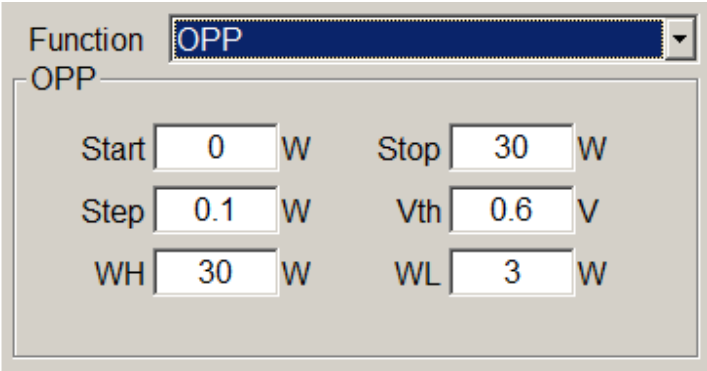
Time : short time

f. OCP



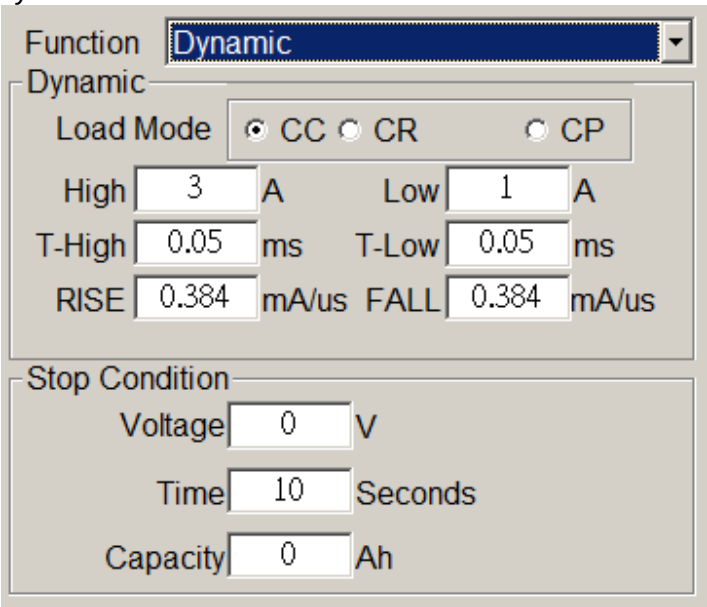
Start : start current value
Stop : stop current
Step : add step current
Vth : voltage threshold
IH : DAM upper limit
IL : DAM lower limit

OPP



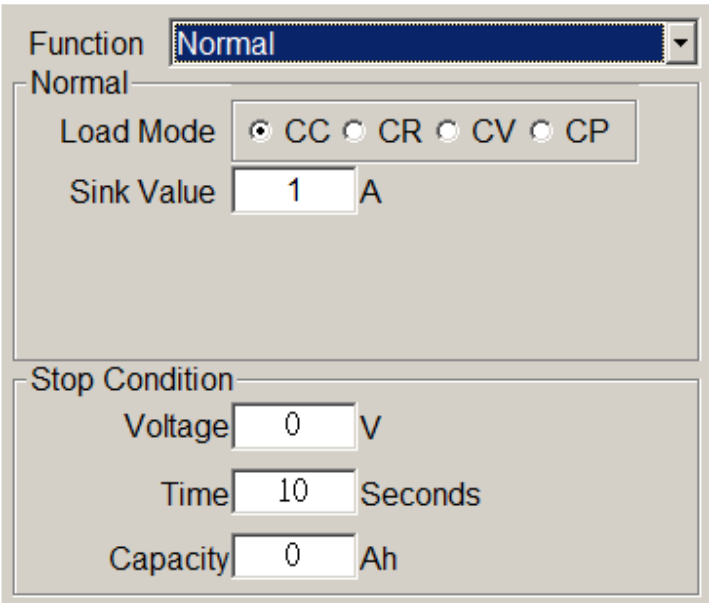
Start : start power value
Stop : stop power
Step : add step power
Vth : voltage threshold
WH : DWM upper limit
WL : DWM lower limit

g. Dynamic



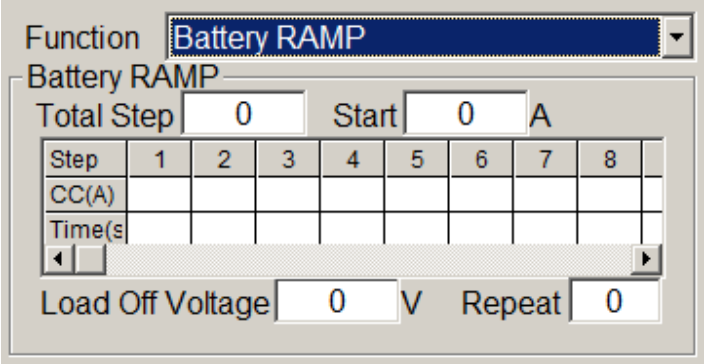
Load Mode : select CC,CR,CP
High : high value
Low : low value
T-High : high time
T-Low : low time
RISE : rise value
FALL : fall value

h. Normal



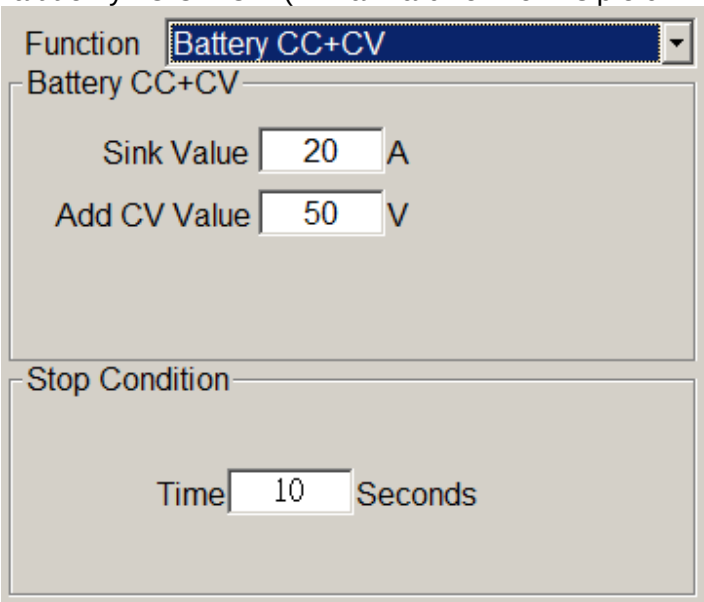
Load Mode : select mode CC,CR,CV,CP
Load Value : set sink value
Stop Condition:
    Voltage : stop voltage
    Time : work time
    Capacity : Adding Capacity Ah

i. Battery RAMP(Available for specific model)



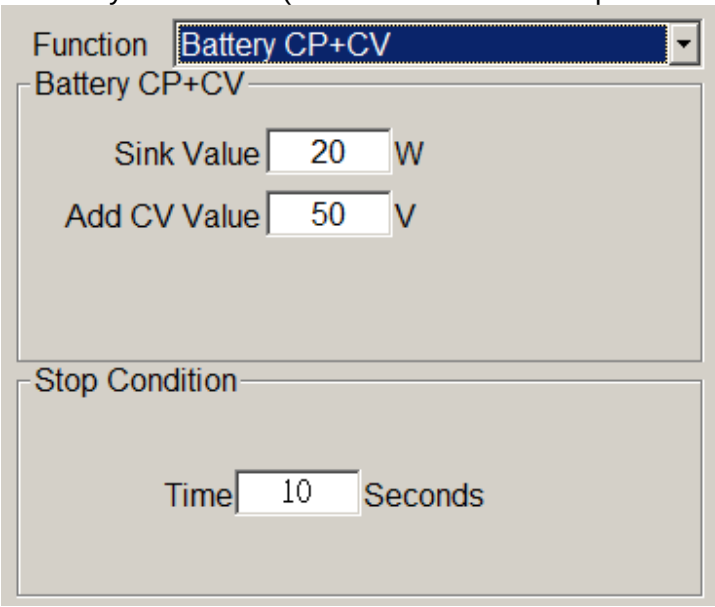
Total Step : total step
Start : start current value
Load Off Voltage : load off voltage value
Repeat : repeat times

j. Battery CC+CV(Available for specific model)



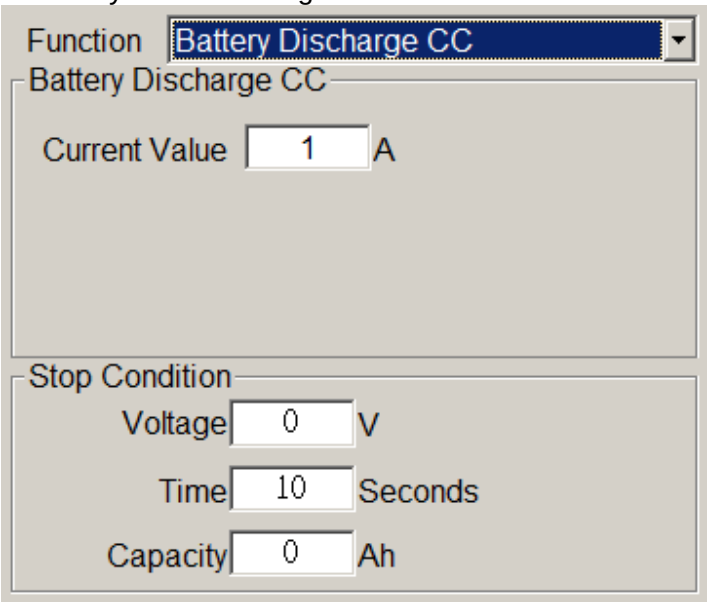
Sink Value : current value
Add CV Value : add CV value
Time : work time

k. Battery CP+CV(Available for specific model)



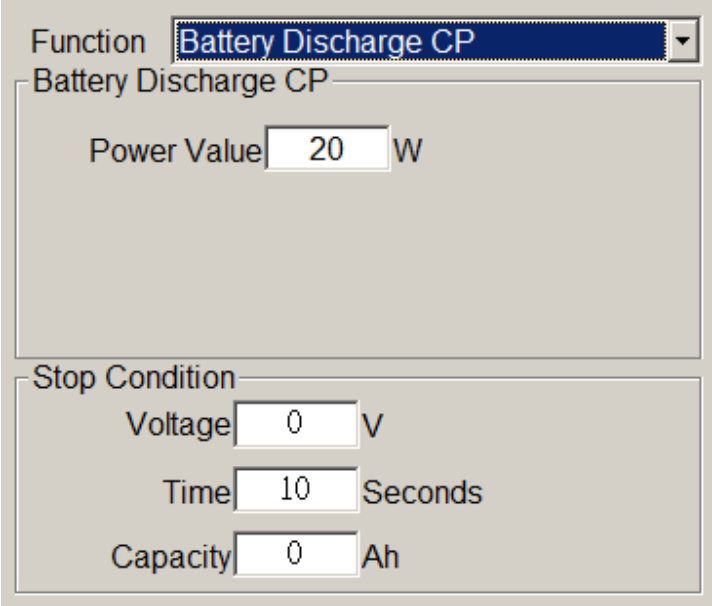
Sink Value : power value
Add CV Value : add CV value
Time : work time

l. Battery Discharge CC Available for specific model)



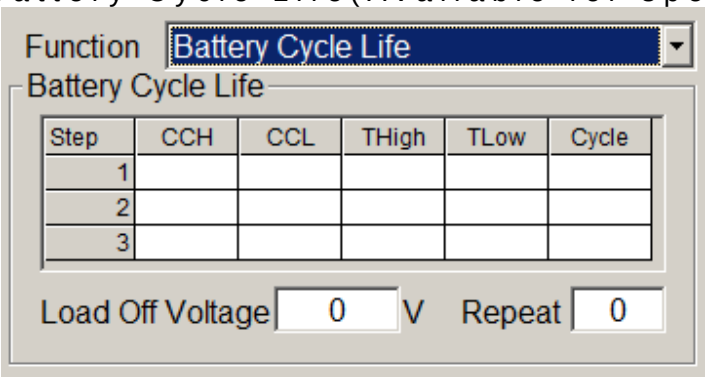
Current Value : set sink value
Stop Condition:
Voltage : stop voltage
Time : work time
Capacity : Adding Capacity Ah

m. Battery Discharge CP(Available for specific model)



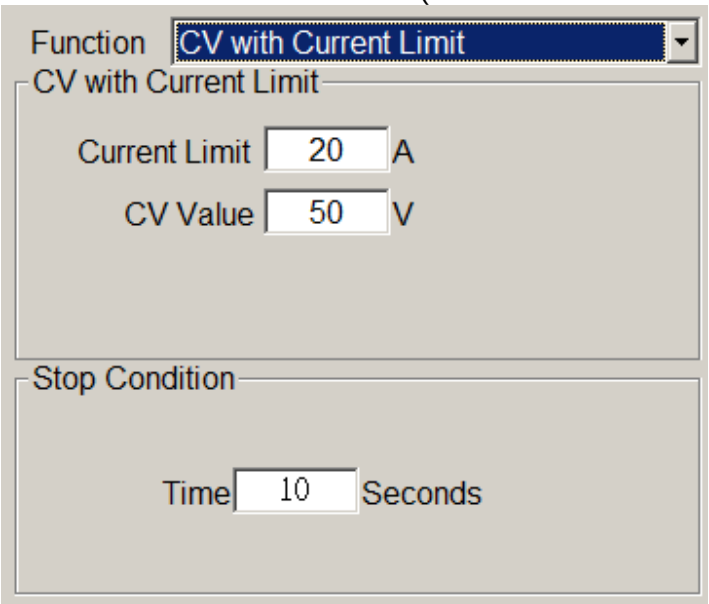
Power Value : set sink value
Stop Condition:
Voltage : stop voltage
Time : work time
Capacity : Adding Capacity Ah

n. Battery Cycle Life(Available for specific model)



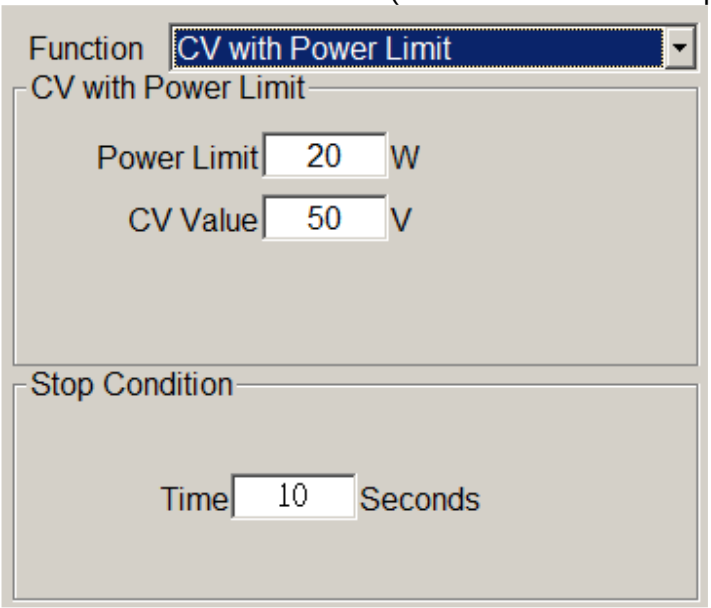
CCH : sink high value
CCL : sink low value
Thigh : high time
TLow : low time
Cycle : cycle times
Load Off Voltage : load off voltage value
Repeat : repeat times

o. CV with Current Limit(Available for specific model)



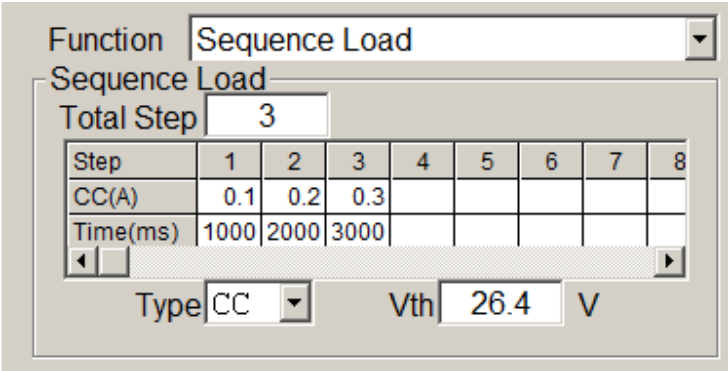
Current Limit : current limit value
CV Value : CV value
Time : work time

p. CV with Power Limit(Available for specific model)



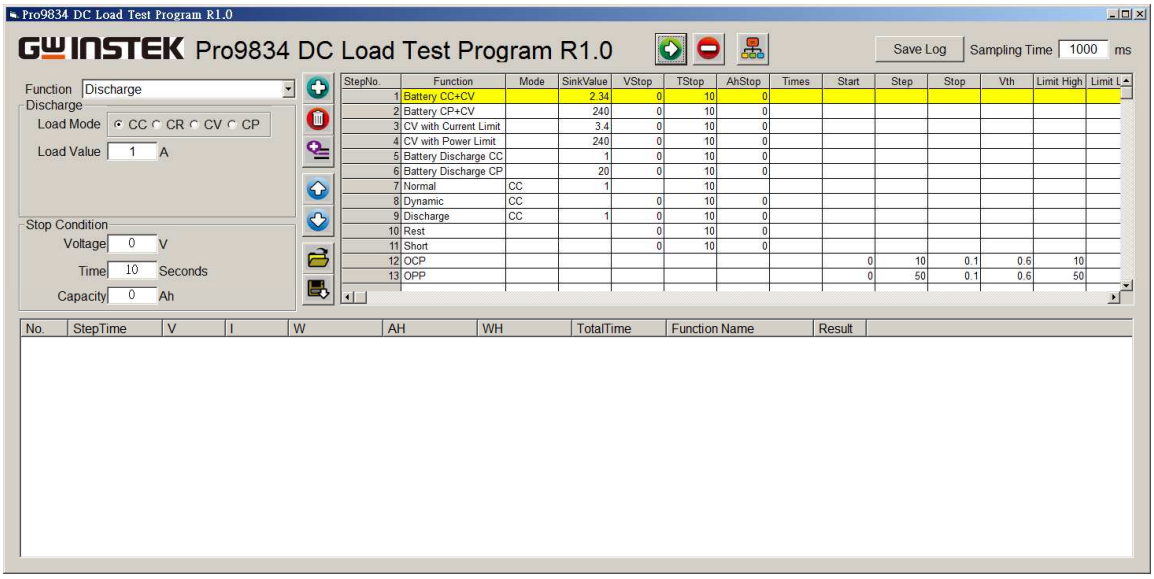
Power Limit : power limit value
CV Value : CV value
Time : work time

q. Sequence Load(Available for specific model)



Total Step : total step
CC(A) : sink current value
Times(ms) : 2-16 step is 0.02ms ~ 999000ms,
but first step is 2ms ~ 65535ms
Type : CC,CP
Vth : voltage threshold

5. Start Test


Pro9834 DC Load Test Program R1.0
GW INSTEK Pro9834 DC Load Test Program R1.0
Save Log
Sampling Time 1000 ms
Function Discharge
Discharge
Load Mode CC CR CV CP
Load Value 1 A
Stop Condition
Voltage 0 V
Time 10 Seconds
Capacity 0 Ah
StepNo. Function Mode SinkValue VStop TStop AhStop Times Start Step Stop Vth Limit High Limit L
1 Battery CC+CV 2.34 0 10 0
2 Battery CP+CV 240 0 10 0
3 CV with Current Limit 3.4 0 10 0
4 CV with Power Limit 240 0 10 0
5 Battery Discharge CC 1 0 10 0
6 Battery Discharge CP 20 0 10 0
7 Normal CC 1 10
8 Dynamic CC 0 10 0
9 Discharge CC 1 0 10 0
10 Rest 0 10 0
11 Short 0 10 0
12 OCP 0 10 0.1 0.6 10
13 OPP 0 50 0.1 0.6 50
No. StepTime V I W AH WH TotalTime Function Name Result