

# 9834

# Operation Manual

## 9834 Operation Manual Menu

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一 、	<b>I n t r o d u c t i o n</b> .....	<b>1</b>
二 、	<b>S y s t e m   r e q u i r e m e n t s</b> .....	<b>1</b>
三 、	<b>9 8 3 4   S o f t w a r e   I n s t a l l a t i o n</b> .....	<b>2</b>
四 、	<b>9 8 3 4   o p e r a t i n g   i n s t r u c t i o n s</b> .....	<b>4</b>

## 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

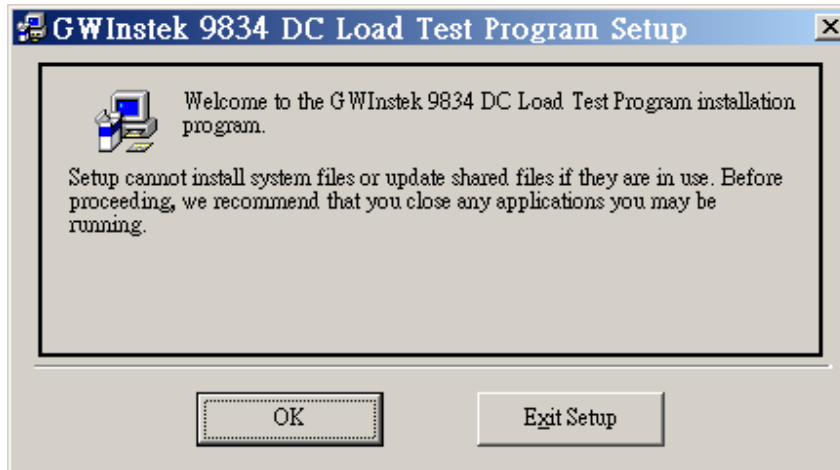
## 二、 System requirements

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. Prodigit AC/DC Electronics Load , used for function

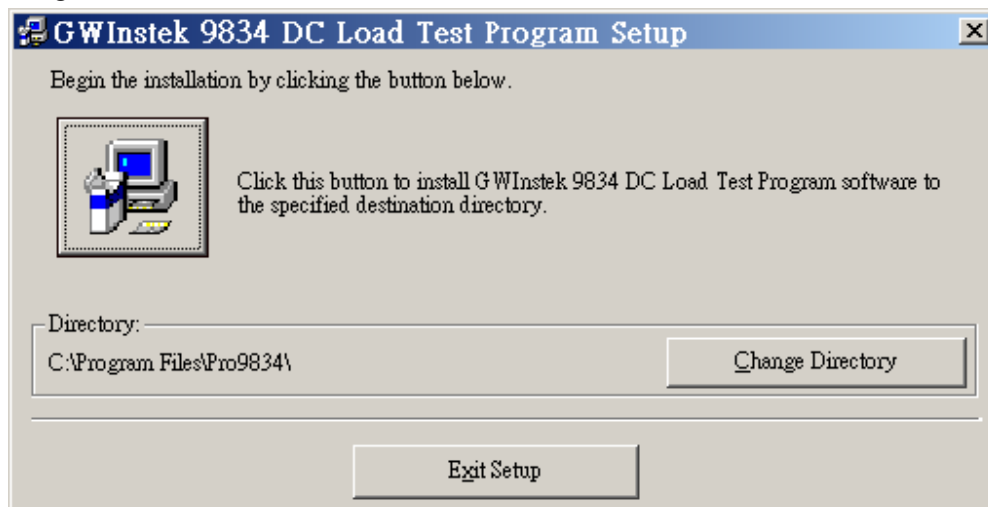
### 三、 9834 Software Installation

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

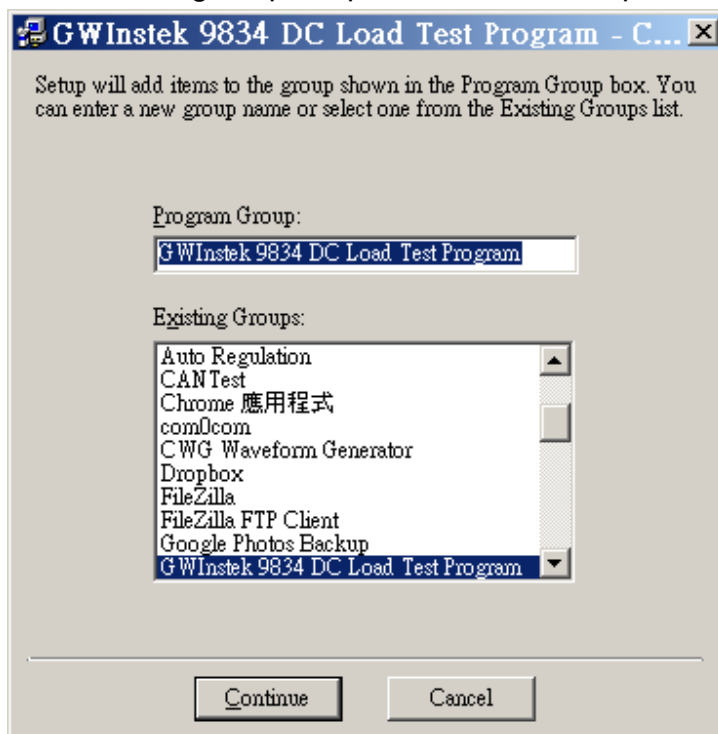
1. Boot the computer to the Windows screen.
2. Insert the CD into the root directory and execute Setup.exe, the following screen will appear.



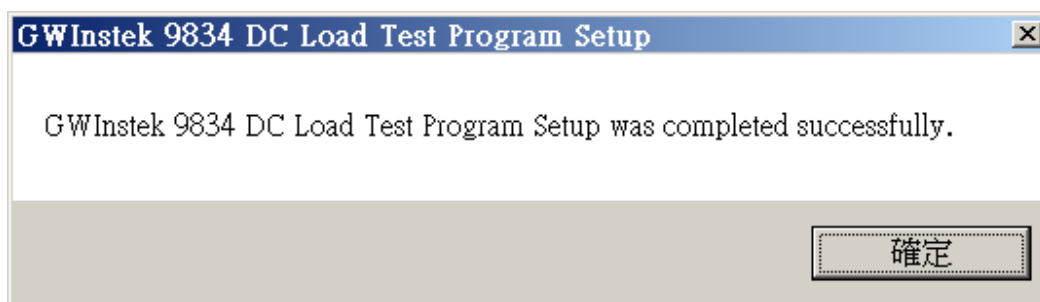
3. It is recommended to change the directory to D:\Pro9834 and follow the installation diagram to install.



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.





- 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

The screenshot shows the 'Connect Setup' dialog box. Under the 'Connection Mode' section, the 'RS-232/USB' radio button is selected. The 'RS-232 Setup' section contains three dropdown menus: 'Baudrate' is set to 115200, 'HandShake' is set to comRTS, and 'COM Port' is set to 1. At the bottom are 'Save' and 'Cancel' buttons.

Baud Rate : Communication rate, default is 115200 ◦

HandShake : comRTS

COM : RS232 communication port, default is 1

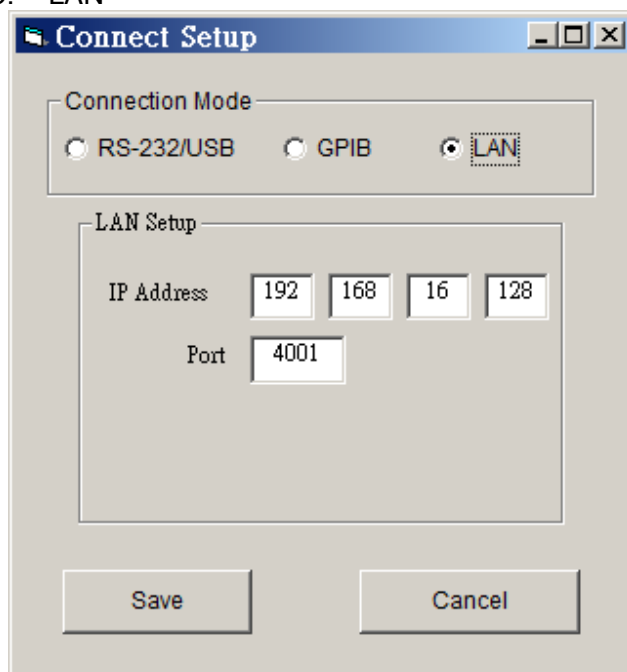
B. GPIB

The screenshot shows the 'Connect Setup' dialog box. Under the 'Connection Mode' section, the 'GPIB' radio button is selected. The 'GPIB Setup' section contains one dropdown menu: 'Address' is set to 5. At the bottom are 'Save' and 'Cancel' buttons.

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

Function Discharge

Discharge

Load Mode ☒ CC ☐ CR ☐ CV ☐ CP

Load Value  A

Stop Condition

Voltage  V

Time  Seconds

Capacity  Ah

##### b. Rest

Function Rest

Rest

Stop Condition

Time  Seconds

##### c. FOR

Function FOR

FOR

Times

## d. L O O P

Function **LOOP**

LOOP

## e. S h o r t

Function **Short**

Short

Stop Condition

Time  Seconds

## f. O C P

Function **OCP**

OCP

Start	<input type="text" value="0"/> A	Stop	<input type="text" value="10"/> A
Step	<input type="text" value="0.1"/> A	Vth	<input type="text" value="0.6"/> V
IH	<input type="text" value="10"/> A	IL	<input type="text" value="3"/> A

## g. OPP

Function **OPP**

OPP

Start	<input type="text" value="0"/>	W	Stop	<input type="text" value="30"/>	W
Step	<input type="text" value="0.1"/>	W	Vth	<input type="text" value="0.6"/>	V
WH	<input type="text" value="30"/>	W	WL	<input type="text" value="3"/>	W

## h. Dynamic

Function **Dynamic**

Dynamic

Load Mode ☒ CC ☐ CR ☐ CP

High	<input type="text" value="3"/>	A	Low	<input type="text" value="1"/>	A
T-High	<input type="text" value="0.05"/>	ms	T-Low	<input type="text" value="0.05"/>	ms
RISE	<input type="text" value="0.384"/>	mA/us	FALL	<input type="text" value="0.384"/>	mA/us

Stop Condition

Voltage	<input type="text" value="0"/>	V
Time	<input type="text" value="10"/>	Seconds
Capacity	<input type="text" value="0"/>	Ah

## i. Normal

Function **Normal**

Normal

Load Mode ☒ CC ☐ CR ☐ CV ☐ CP

Sink Value  A

Stop Condition

Voltage	<input type="text" value="0"/>	V
Time	<input type="text" value="10"/>	Seconds
Capacity	<input type="text" value="0"/>	Ah

1.1

## j. Battery RAMP

Function **Battery RAMP**

Battery RAMP

Total Step  Start  A

Step	1	2	3	4	5	6	7	8	
CC(A)									
Time(s)									

Load Off Voltage  V Repeat

## k. Battery CC+CV

Function **Battery CC+CV**

Battery CC+CV

Sink Value  A

Add CV Value  V

Stop Condition

Time  Seconds

## l. Battery CP+CV

Function **Battery CP+CV**

Battery CP+CV

Sink Value  W

Add CV Value  V

Stop Condition

Time  Seconds

## m. Battery Discharge CC

Function **Battery Discharge CC**

Battery Discharge CC

Current Value  A

Stop Condition

Voltage  V

Time  Seconds

Capacity  Ah

## n. Battery Discharge CP

Function **Battery Discharge CP**

Battery Discharge CP

Power Value  W

Stop Condition

Voltage  V

Time  Seconds

Capacity  Ah

## o. Battery Cycle Life

Function **Battery Cycle Life**

Battery Cycle Life

Step	CCH	CCL	THigh	TLow	Cycle
1					
2					
3					

Load Off Voltage  V Repeat

## p. CV with Current Limit

The screenshot shows a software window titled 'CV with Current Limit'. At the top, a dropdown menu labeled 'Function' is set to 'CV with Current Limit'. Below this, the main title 'CV with Current Limit' is displayed. There are two input fields: 'Current Limit' with a value of '20' and unit 'A', and 'CV Value' with a value of '50' and unit 'V'. At the bottom, under the 'Stop Condition' section, there is a 'Time' input field with a value of '10' and the unit 'Seconds'.

## q. CV with Power Limit

The screenshot shows a software window titled 'CV with Power Limit'. At the top, a dropdown menu labeled 'Function' is set to 'CV with Power Limit'. Below this, the main title 'CV with Power Limit' is displayed. There are two input fields: 'Power Limit' with a value of '20' and unit 'W', and 'CV Value' with a value of '50' and unit 'V'. At the bottom, under the 'Stop Condition' section, there is a 'Time' input field with a value of '10' and the unit 'Seconds'.

5. Start Test

Pro9834 DC Load Test Program R1.0

**GW INSTEK** Pro9834 DC Load Test Program R1.0

Function: Discharge

Load Mode: ☒ CC ☐ CR ☐ CV ☐ CP

Load Value: 1 A

Stop Condition:

Voltage: 0 V

Time: 10 Seconds

Capacity: 0 Ah

Save Log Sampling Time: 1000 ms

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	OCPP							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
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