

Connecting to the C8000

ABSTRACT

The C8000 is an advanced programmable battery testing system. The C8000 offers four independent channels, tests batteries ranging from 50 mAh to 100 Ah, provides manual and automated service and can work in standalone or with PC software. The C8000 can be set up to communicate with a PC via the TCP/IP connection. This application note describes the steps necessary to connect the C8000 to the BatteryLab program.

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<u>Step 1 – configure your laptop IP address</u>

- Select "Network Connections" from the Settings menu.
- Right-click on the "Local Area Connection" item and select "Properties"
- Scroll down to the bottom of the window and select "Internet Protocol (TCP/IP) Properties". See Figure 1 LAN Properties Window.

] Local Area Connection Prop ?×
General Authentication Advanced
Connect using:
Broadcom 440x 10/100 Integrated C Configure
This connection uses the following items:
🔽 📮 QoS Packet Scheduler
Internet Protocol (TCP/IP)
Install Uninstall Properties
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
 Show icon in notification area when connected Notify me when this connection has limited or no connectivity
OK Cancel

Figure 1 - LAN Properties Window

• Click on the "Properties" button shown in Figure 1 - LAN Properties Window and the following screen will be displayed.

- 2 -



	automatically if your network supports d to ask your network administrator for
🔘 Obtain an IP address automa	tically
Ose the following IP address:	
IP address:	192.168.4.105
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	
Obtain DNS server address a	utomatically
Ose the following DNS server	r addresses:
Preferred DNS server:	
Alternate DNS server:	(x x x)

Figure 2 - TCP/IP Properties

- 3 -

• Configure the IP address as shown in Figure 2 - TCP/IP Properties

<u>Step 2 – Configure the C8000</u>

- From the main menu select "System"
- From the "System" menu select "TCP/IP Settings"

Mar 31	TCP/IP Settings	16:51
	○ Disabled ○ Enabled	
	Iress: <u>192 168 004 205</u> Wask: <u>255 255 255 000</u> Host: <u>192 168 004 138</u>	
ОК	MAC: 00:50:C2:77:00:05	Cancel

Figure 3 - C8000 TCP/IP Settings

- The "Address" entry is the TCP/IP address of the C8000
- The "Host" entry is the TCP/IP address of the laptop.
- Edit the host entry to match the TCP/IP address of the laptop.
- Restart the C8000

Step 3 – Configure BatteryLab

- Start the BatteryLab program
- Select "BatteryLab Configuration" from the right-hand menu
- Enter the IP address of the C8000 in the "IP Address 1" location. Refer to Figure 4 BatteryLab Configuration Screen

BatteryLab Config Setting up system options			\bigcirc
IP Address Results Panel	IP Address Static TCP/IP address for conne	ected C8000 testers	nection
Event Logging	IP Address 1:	IP Address 5:	
<u>Report Template Options</u> <u>Graph Options</u>	192.168.4.89	Enabled	
	IP Address 2:	IP Address 6:	
Enter the IP address of the	192.168.4.80	Enabled	
C8000 here	IP Address 3:	IP Address 7:	
	Enabled	🗖 Enabled	
	IP Address 4:	IP Address 8:	
"Host" setting on the C8000	Enabled	T Enabled	
should match this value			
	PC Host IP Address: 192.16 ✓ Auto connect on BatteryLab		

Figure 4 - BatteryLab Configuration Screen

Step 4 - Connect to the C8000

- Select "Connect" from the right-hand menu in BatteryLab.
- Within a few seconds the BatteryLab program should show an icon with 4 battery stations indicating that the C8000 and BatteryLab have successfully connected.