

Ethernet Communication Setup for an SR865A Lock-in Amplifier

A crossover cable is not required (but it works with a crossover cable, too).

Windows computer

Install Telnet in Windows 10

- * Open "Control Panel".
- * Open "Programs".
- * Select the "Turn Windows features on or off" option.
- * Check the "Telnet Client" box.
- * Click "OK". A box will appear that says "Windows features" and "Searching for required files". When complete, the Telnet client should be installed in Windows.

Open Network Status/Properties/Edit and copy down your existing settings, as shown

IP address: **172.25.96.238**
Gateway: **172.25.0.1**
Preferred DNS: **172.25.96.2**

Unplug ethernet cable from PC

Enter new IP settings, as shown

IP address: **192.168.0.3**
Gateway: **172.25.0.1**
Preferred DNS: **172.25.96.2**

SR865

In menu system/Telnet, select the following settings

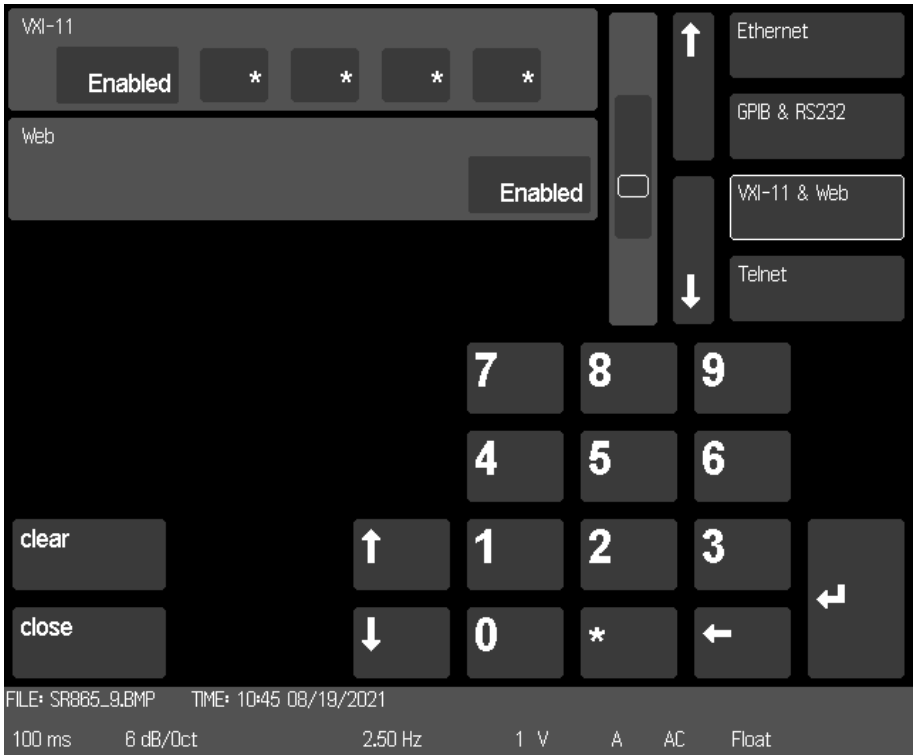
Telnet: Enabled
Receive Terminator: CR
Transmit Terminator: CR-LF



And in menu system/VXI-11 & Web

VXI-11: Enabled

Web: Enabled



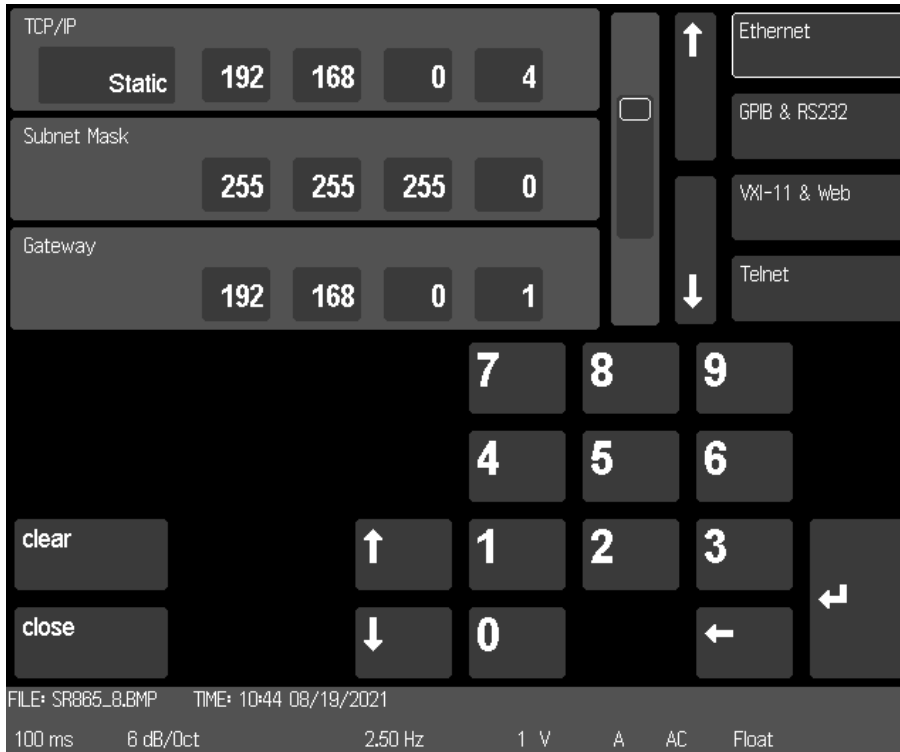
In menu system/Ethernet, set as follows:

Static

TCP/IP 192.168.0.4

Subnet Mask 255.255.255.0

Gateway: 192.168.0.1



Finally, power the SR865A off and back on so the settings are updated.

Windows

Open command prompt, and start a telnet session

```
telnet 192.168.0.4
```

```
*idn?
```

```
Stanford_Research_Systems,SR865,002713,1.53
```