



# ***OneTouch Series II***

## Network Assistant

## Getting Started

PN 1595893

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# ***OneTouch Series II Network Assistant***

## ***Introduction***

This manual helps you become familiar with and quickly begin using your OneTouch™ Series II Network Assistant, hereafter referred to as the Network Assistant. The Network Assistant provides quick solutions to most common problems found when installing and troubleshooting Ethernet networks.

The Network Assistant is available in these models:

- ☐ OneTouch-10/100 Series II
- ☐ OneTouch-10/100 Series II Pro

Everything in this manual applies to all models unless specifically indicated. Some options are only available in trial mode (limited number of uses). For more detailed information, read the *OneTouch Series II Users Manual* contained on the CD that came with the unit. Adobe Acrobat Reader is required to view the documents and is included on the CD or downloadable from **www.adobe.com**.

This manual is divided into two sections: OneTouch Series II "Essentials" and "Basic Tasks."

### **OneTouch Series II Essentials**

- ☐ Power Switch and Default Settings
- ☐ Battery, Universal AC Adapter and Cables
- ☐ Touchscreen and top-level display.
- ☐ LED labels
- ☐ Work Area/Navigation Keys

### **OneTouch Series II Basic Tasks**

- ☐ IP Setup
- ☐ Checking and tracing a cable
- ☐ Saving and printing screens
- ☐ Checking a Network Connection
- ☐ Checking Network Health
- ☐ Updating software

## ***OneTouch Series II Essentials***

This section covers the basics of setting up the Network Assistant and provides a brief description of the screen displays and icons.

### ***Power Switch***

Figure 1 shows the power switch for the Network Assistant.

Press the power switch to turn the Network Assistant on and off. The main screen displays as shown in Figure 9.

## OneTouch Series II

### Getting Started

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#### Default Settings

To restore the Network Assistant to its default settings:

1. Turn the Network Assistant off.
2. Press and hold down the power switch for about 5 seconds and then release it. You will see a popup indicating default settings have been restored.

#### Supplied Equipment

Check the basic equipment supplied with your OneTouch Series II against the list in Table 1. Replacement parts are listed in Appendix B of the *Users Manual*. Go to <http://www.flukenetworks.com> and navigate to the OneTouch Series II area for a list of optional equipment.

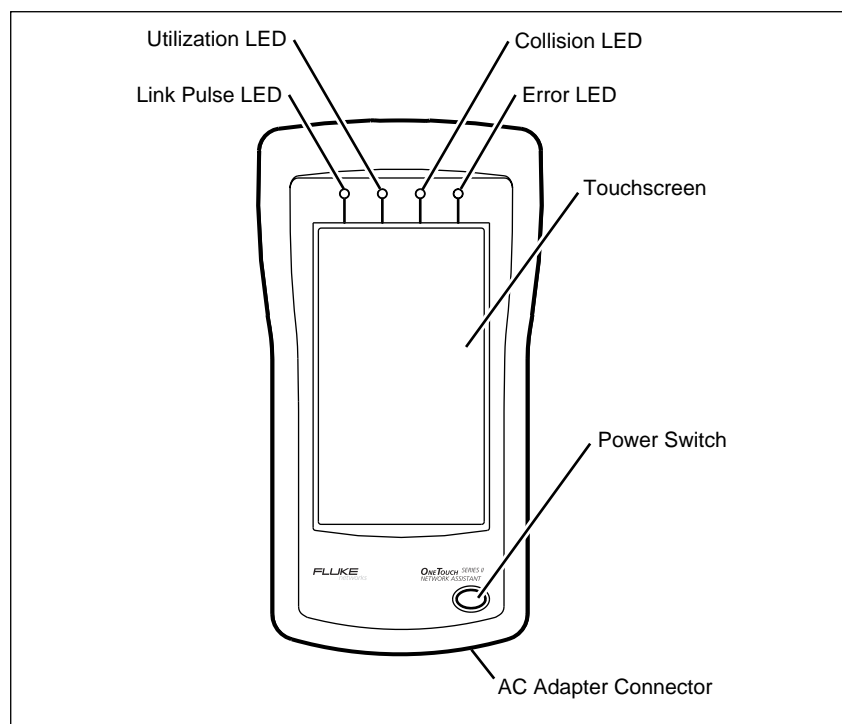




Figure 1. OneTouch Series II Features

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**Table 1. Supplied Equipment**

<b>Part</b>	<b>Part No.</b>
One of the models below:	
OneTouch-10/100 Series II	1279949
OneTouch-10/100 Series II Pro	1279951
Battery Pack	620762
Cable Identifier	620861
Softcase	603115
Carrying Strap	620788
Universal AC Power Adapter	616216
AC Line Cord	284174
Holster	110095
Cable Assembly	944806
Registration Card	688861
OneTouch Series II Getting Started Manual	1595893
OneTouch Series II CD-ROM Disk (contains items below)	1595887
OneTouch Series II Link Software	
OneTouch Series II Users Manual	
OneTouch Series II Computer Based Training	

### **Battery and AC Adapter**

The Status Line (Figure 9) shows the approximate battery charge remaining, indicated by the bar to the left of the Battery icon . When an AC adapter is connected, the Status Line display resembles the end of a power cord .

#### *Note*

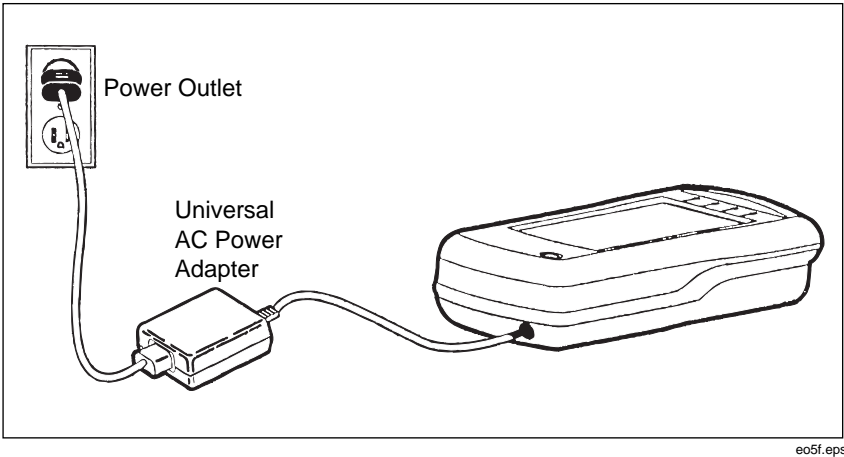
*Charge the optional Rechargeable Battery Pack with the Universal AC Adapter before using it for the first time.*

The Network Assistant can be run from line power (Figure 2) by attaching the Universal AC Adapter. When using the AC adapter, the Network Assistant can run all tests as the battery recharges.

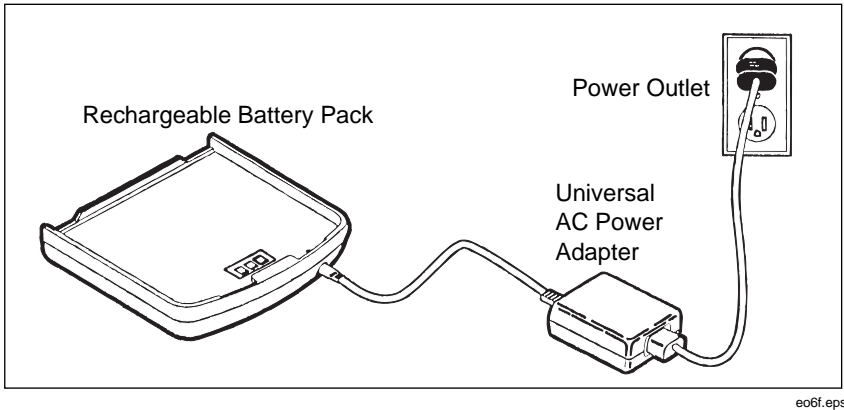
The Rechargeable Battery Pack can be charged while it is inside or outside of the Network Assistant. To recharge while outside the Network Assistant,

simply connect the Universal AC Adapter to a power outlet and to the connector on the Rechargeable Battery Pack as shown in Figure 3.

Recharging the Battery Pack to 95 % of potential takes about 3.5 hours. Refer to the legend inside of the Rechargeable Battery Pack for the current charging state. A fully charged battery provides approximately 2.5 hours of operation.



**Figure 2. Charging the Battery Pack Inside the Network Assistant**



**Figure 3. Charging the Battery Pack Outside of the Network Assistant**



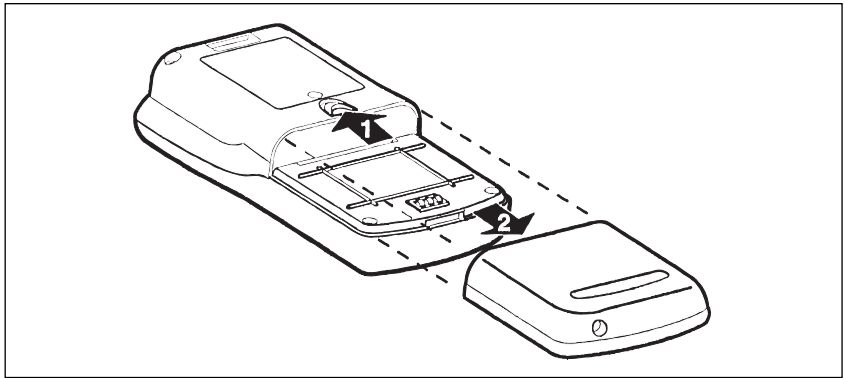
To remove or install the Rechargeable Battery Pack, do the following:

**⚠ Caution**

**Turn off the Network Assistant before removing the battery pack.**

1. Release the latch on the Rechargeable Battery Pack and remove it as shown in Figure 4.
2. Reinstall the Rechargeable Battery Pack by reversing the action shown in Figure 4.

You do not need to touch the release latch when reinstalling the Battery Pack, but it should click when completely installed.



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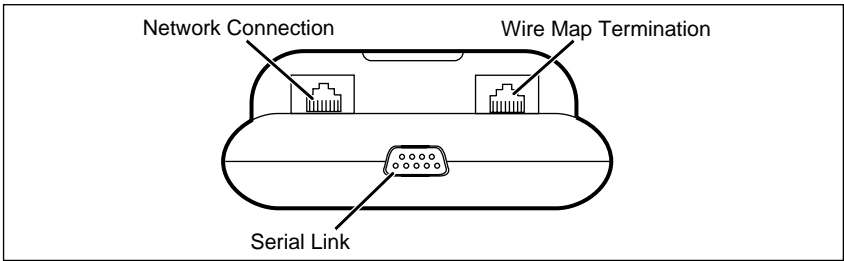
**Figure 4. Battery Pack Removal and Installation**

**OneTouch Series II Connectors**

The OneTouch Series II has the following connectors:

- ☐ Shielded RJ-45 LAN Connector (Network connection)
- ☐ Shielded RJ-45 Wiremap Connector (Wire Map Termination)
- ☐ DB-9 RS-232 PC/Printer Connector (Serial Link)
- ☐ AC Adapter Connector

See Figures 1 and 5 for the location of each connector. Figure 6 shows the Network Assistant connected to a network wall plate. Figure 7 shows basic connection information, which is located on the back of the Network Assistant. Figure 8 shows a typical network hub connection.

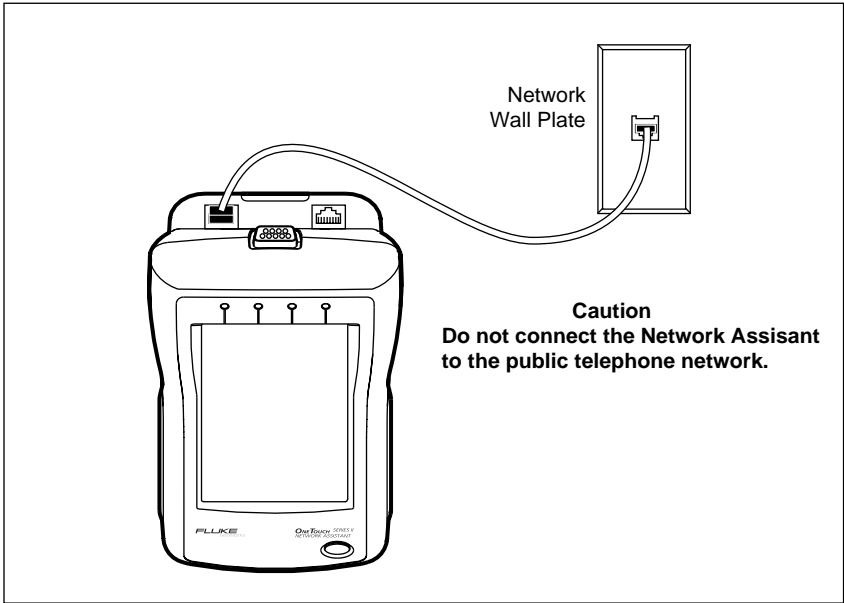


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**Figure 5. OneTouch Series II Connectors**

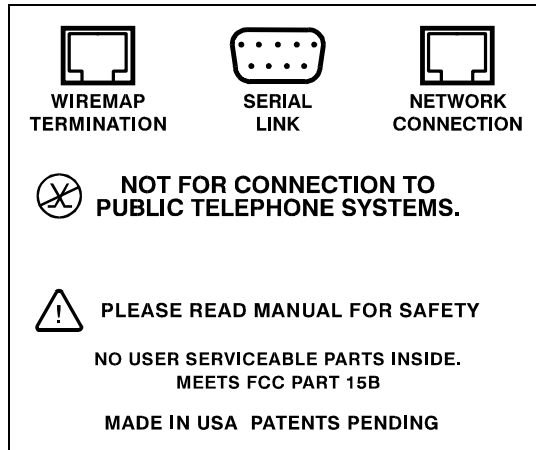
**⚠ Caution**

**Do not connect the OneTouch Series II to the public telephone network or ISDN lines. You might damage the instrument.**

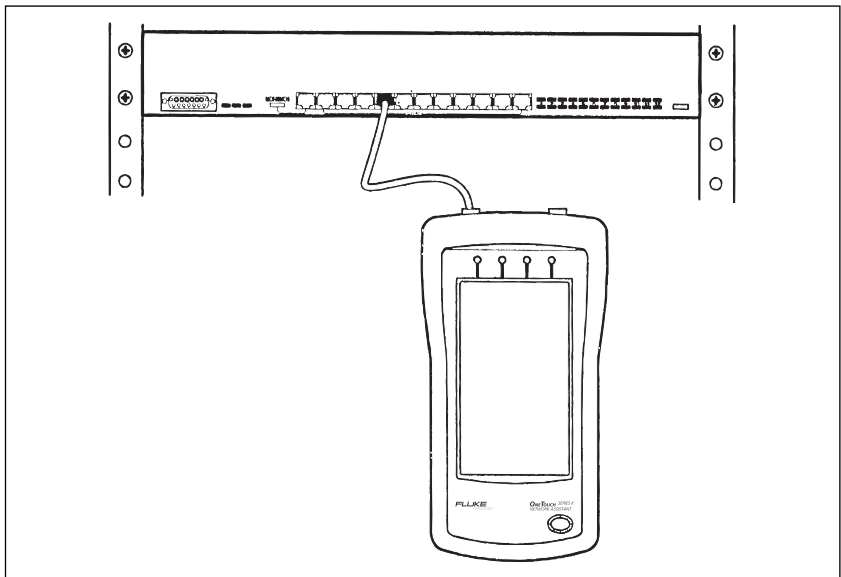


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**Figure 6. OneTouch Series II Connected to Network Wall Plate**



**Figure 7. Connection Information**



**Figure 8. OneTouch Series II Connected to a Hub**

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#### Top-level Display

After you turn the Network Assistant on, you will see the top-level display as described below.

- ☐ LED labels
- ☐ Status line
- ☐ Tool bar
- ☐ Work area
- ☐ Navigation keys

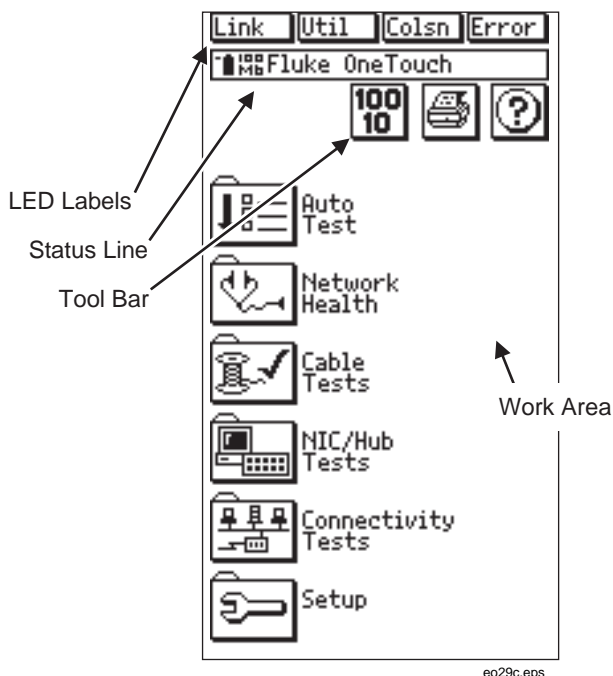


Figure 9. OneTouch Series II Top-level Display

#### Using the Touchscreen

To operate the Network Assistant, simply touch the LCD surface. Use only fingers to touch or press the touchscreen.

#### Caution

**Damage can occur to the touchscreen if it comes in contact with anything sharp, pointed, or hard (such as ends of pens or pencils). Use only your fingers to touch the touchscreen.**

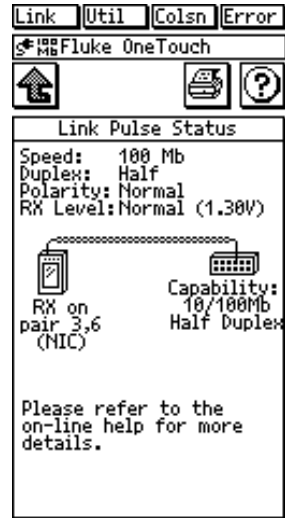
The touchscreen is both a keyboard and a display. As a keyboard, the touchscreen displays icons (buttons) that, when pressed, perform the function of a custom keyboard. In Chapter 2 of the *Users Manual*, read “Address Entry Keypad” for more information on the keypad and “Device Icons” for a list of the device icons.

### **LED Labels**

The LEDs are labeled on the touchscreen from left to right as: **Link** (link pulse), **Util** (utilization), **Colsn** (collision), and **Error** (error).

When you turn the Network Assistant on, the LEDs activate and give you a quick indication of what your network is doing before you run any tests.

When you press an LED label the Network Assistant displays a popup screen with information about the label you pressed. Figure 10 is an example of a popup screen that you might see when you press **Link** (Link label).




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**Figure 10. Link Display**

The following describes the meaning of the LEDs:

- |                  |  |
|------------------|--|
| <b>Link LED</b>  | Indicates the link pulse status with a green and yellow LED. See Table 2.                              |
| <b>Util LED</b>  | Indicates the degree of network utilization with a green, yellow, and red LED. See Table 3.            |
| <b>Colsn LED</b> | Flashes yellow when a collision is detected.   |
| <b>Error LED</b> | Flashes red when a bad frame check sequence (FCS), late collision, short frame, or jabber is detected. |

The following is a list of the LED popup windows and the information that each provides. Press  (up one level) to exit each popup screen.

- |                   |   |
|-------------------|---|
| <b>Link Popup</b> | Shows the link pulse status (i.e., speed, duplex mode, polarity, RX level, receive pair, and whether Network Assistant is acting as a Network Interface Card (NIC) or Hub). See Table 2 for details. For more details on this and other screens, read the <i>Users Manual</i> . |
| <b>Util Popup</b> | Displays the utilization meter icon (gauge) and Network Advice about the utilization and collision rates.   |



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- Colsn Popup**

Displays the collision meter icon (gauge) and Network Advice about the utilization and collision rates.
- Error Popup**

Displays the error meter icon (gauge) and Network Advice about the utilization and error rates.
- Strip Charts**

You can create “strip charts” by pressing one of the icons below the meter. For each of the pertinent items (Util, Colsn, and Error), you can display activity over a period of approximately 1.5 minutes as frames per second or %  in either meter form or graph form .

### Notes

1. *The OneTouch Series II is a half-duplex device and relies on Fast Link Pulse to auto-negotiate with other devices. It can reliably detect both the speed and duplex mode of a port when the port is "auto-sensing."*
2. *If the speed of a port is "hard configured," OneTouch Series II can detect the speed but NOT the duplex mode of the port.*
3. *OneTouch Series II behaves as a NIC when connected to the network. It will also correct for a crossover cable and establish link.*

Table 2. Interpreting the Link LED



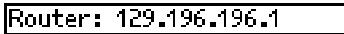
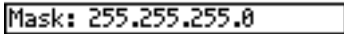
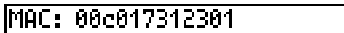
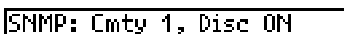
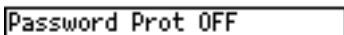
If the LED is...	And Connected to a...	Then...	Transmit Wire Pair	Receive Wire Pair
Off	N/A	No Link Pulse is found.	N/A	N/A
Yellow	NIC	A straight cable is present.	1 and 2	3 and 6
Yellow	Hub	A crossover cable is present.	3 and 6	1 and 2
Green	NIC	A crossover cable is present.	1 and 2	3 and 6
Green	Hub	A straight cable is present.	3 and 6	1 and 2

**Table 3. Interpreting the Util LED**

<b>If the Util LED is...</b>	<b>Then Utilization is...</b>
Off	No link pulse
Flashing green (1/second)	1 frame / sec
Solid green	up to 30 %
Solid yellow	30 % - 70 %
Solid red	70 %+

Status Line

By touching the status line (shown in Figure 11), you can cycle through the status items. Status information displays on the status line for several seconds and then the status line is returned to its previous state.

<b>Location</b> - Your current status in the OneTouch Series II menu structure (e.g., Setup).	
<b>Battery Level</b> - The remaining charge on the batteries (or whether or not the Universal AC Adapter is connected).	
<b>Speed</b> - 10/100 or 100 Mb/s.	
<b>IP address</b> - Manually configured or DHCP acquired.	
<b>Default router</b>	
<b>Subnet mask</b>	
<b>MAC address</b>	
<b>SNMP configuration</b>	
<b>Password protection status</b>	

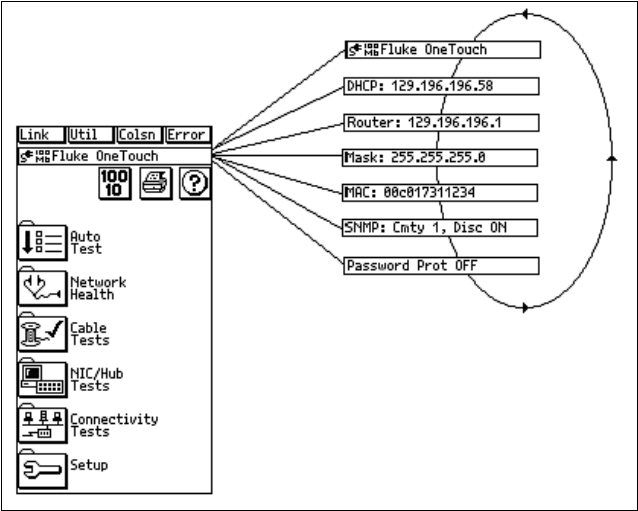









Figure 11. Status Line

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Table 4 describes each Tool Bar icon.






**Table 4. Tool Bar Icons**

Icon	Meaning	Operation
	Up One Level	Press to move up one level in the user interface.
	Home	Press to return to the top-level display.
	10 Mb/s	Press to see the popup for switching the network interface between 10 Mb/s, 100 Mb/s, and auto-sense. Auto-sense automatically selects the link speed used by the hub. The selected speed is shown at the top of the button.
	100 Mb/s	
	10 or 100 Mb/s	
	Printer	Press to access Print Manager.  Refer to "Printing and Saving Screens" for additional information.
	Help	Press to access on-line Help, which provides additional information about the current display.  Press from the top-level display to get the software version number.  Use the OneTouch Link program to change the online help language. The language you select while updating the unit is displayed for all screens.  Refer to the "Using Online Help" topic in this manual for more information.












**Work Area**

The work area of the top-level display shows the icons you press to access setup screens and to perform intermediate functions. Press **Setup** to configure the Network Assistant or press an icon to start or access that function. Table 5 describes the icons in the work area.

**Table 5. Work Area Test Icons**

Icon	Meaning	Operation
	AutoTest	<p>Press to start AutoTest.</p> <p>AutoTest discovers the devices that are on the segment and tests for connectivity. The devices on your segment are then shown on the AutoTest display. See Chapter 2 in the <i>Users Manual</i>, "AutoTest," for more information.</p>
	Network Health	<p>Press to view Network Health.</p> <p>The Network Health test monitors and displays the following six network parameters that represent the overall network health and displays their results on meters.</p> <ul style="list-style-type: none"><li>* Utilization    * Broadcasts</li><li>* Error           * Protocol</li><li>* Collision       * Stations</li></ul> <p>See Chapter 3 in the <i>Users Manual</i>, "Network Health," for more information.</p>
	Cable Tests	<p>Press to access the Cable Tests and the Define Cable functions.</p> <p>See Chapter 4 in the <i>Users Manual</i>, "Cable Tests," for more information.</p> <div><p><b>Cable Autotest</b> -- Measures length, tests for split pairs, and/or wiremap on a cable (depends on cable's termination and quality).</p></div> <div><p><b>Wiremap Cable</b> -- Runs a complete wiremap test even if the cable's termination and quality are poor.</p></div>










**Table 5. Work Area Test Icons (Cont.)**

Icon	Meaning	Operation	
	Cable Tests (cont.)		<b>Toner</b> -- Transmits a tone on the cable for use with a user-supplied receiver.
			<b>Fiber</b> -- Enables you to start fiber tests when a DSP-FOM (Fiber Optic Meter) is connected.
			<b>Define Cable</b> -- Provides access to the Cable Category and unit options (e.g., feet or meters).
	NIC/Hub Tests	Press to access the following tests. See Chapter 5 in the <i>Users Manual</i> , "NIC/Hub Tests," for more information.	
			<b>NIC Autotest</b> -- Provides as much information as possible about the physical connection to the network adapter card.
			<b>Hub Autotest</b> -- Provides as much information as possible about the physical connection to the hub.
			<b>NIC Detector</b> -- Assists in determining if a cable is attached to a workstation.
			<b>Flash Hub Port</b> -- Helps you determine which hub port the Network Assistant is connected to.
	Connectivity Tests	Press to ping IP, IPX, or other stations. In addition you can perform an IP Trace Route, which also helps verify connectivity to a specific resource or station. Access these functions as well: Ping Key Devices, Config Master, Station Locator, and Internetwork Throughput (ITO). Read Chapter 6, "Connectivity Tests" and Chapter 7, "Internetwork Throughput Option" in the <i>Users Manual</i> for more information.	
	Setup	Press to access the following: IP Setup (manual or DHCP), Measurement Setup (SNMP, Station Filter, Cable, and VOIP Setup), Self Test, Remote Setup, and OneTouch UI Setup screens. See "OneTouch Series II Tasks" for more information.	

**Navigation Keys**

Use the navigation keys (Table 6) to scroll through lists and to perform other common functions on the Network Assistant.


**Table 6. Navigation Keys**

Icon	Meaning	Operations
	Double-Down Arrow	Press to move down one full screen in the display.
	Down Arrow	Press to move down one line in the display.
	Double-Up Arrow	Press to move up one full screen in the display.
	Up Arrow	Press to move up one line in the display.
	OK	Press to close a popup window (LED popup windows can also be closed by pressing another LED label).
	Rerun	Press to start the current function again (displays only if current function can be rerun).
	Exit	Exits a display without saving the changes you made (e.g., Address Entry Keypad).
	Up One Level	Press to move up one level in the user interface.
	Home	Press to return to the top-level display.
	Scroll Box	When a multi-screen list displays, a scroll bar will display so you can navigate within the list. Touch the scroll box to move around within a list.

## **OneTouch Series II Tasks**

The following pages describe some tasks you will want to accomplish upon connecting the Network Assistant as described in the first section. For more details about a function, read the pertinent section in the online users manual.

### **Setting Up**



To access the Central Setup menu, press  (**Setup**) from the top-level display. From there you can access the following functions:

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>❑ <b>IP Setup</b><br/>Manual or DHCP</li><li>❑ <b>Measurement Setup</b><br/>SNMP Config<br/>Station Filter<br/>Cable Setup<br/>VOIP Setup</li><li>❑ <b>Self Test</b></li></ul> | <ul style="list-style-type: none"><li>❑ <b>Remote Setup</b><br/>Password Protection<br/>Browser Settings<br/>Network Inspector Setup</li><li>❑ <b>OneTouch UI Setup</b><br/>Display contrast<br/>Battery saving options<br/>Beeper ON/OFF<br/>Help language</li></ul> |
|--|---|




### **IP Setup**

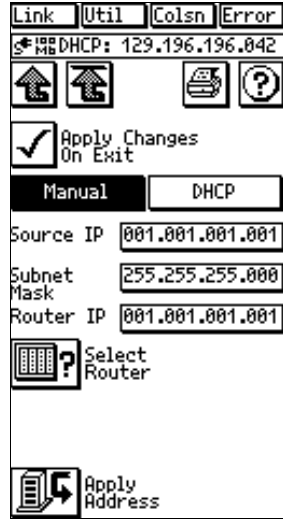
In order for the Network Assistant to function properly, it must have an IP assigned (Source IP). You can enter the Source IP manually or by using DHCP. The DHCP feature lets you use Dynamic Host Configuration Protocol to automatically get an IP source address for your Network Assistant. If the network you are using it on does not support DHCP, you will need to assign one manually.

#### **Using DHCP to Get an IP Source Address**

To activate DHCP, press  **IP Setup** from the Central Setup screen and press the **DHCP** tab. When you press  (**Get Address**), the Network Assistant requests to lease an IP address from the DHCP server. The DHCP address request also occurs automatically if DHCP is already selected when the Network Assistant detects a link pulse.

**Manually Entering Addresses**


Press  **IP Setup** from the Central Setup screen. The IP Setup screen displays (Figure 12). Select the **Manual** tab and enter a valid IP address manually using the keypad. You must also enter the IP address for the subnet mask. Enter a known router address or press  **Select Router** to automatically fill in the Router's IP Address. Press  **Apply Address** when complete. Read "Address Entry Keypad" in Chapter 2 and "IP Config" in Chapter 6 of the *Users Manual* for more information.





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**Figure 12. IP Config Display**


**Changing Measurement Setup**

From the Central Setup menu, access **Measurement Setup**  to set or change parameters for SNMP, Station Filters, Cable Setup, and VOIP.

**Configuring SNMP**

Your Network Assistant is set up to use community strings with the default set as "public." To add or change community strings, press  (**Measurement Setup**) then  (**SNMP Setup**) to access the Security Setup screen (read chapter 2 of the *Users Manual*).

**Setting Filters**

Press  (**Station Filter Setup**). You can choose which station types will be stored in the station database and display in the station list. Choices are: MAC Only, IP, IPX, IPX, DECNET, and APPLE TALK addresses. Press the box next to the address type to select or deselect.

**Defining a Cable**

Press  (**Cable Setup**)

Select from the following parameters (default settings are checked):


- ☐ Units as Feet or Meters

- ☐ Category as Cat 3, Cat 4, Cat 5/5E, User Defined 1, or User Defined 2

If you select one of the user-defined choices, you get the additional Set NVP Up and Down arrows for setting the desired NVP.

- ☐ Filter frequency of 50 Hz or 60 Hz for power line noise

### Setting Voice over IP (VOIP) Parameters

Press  (**VOIP Setup**). The VOIP Setup screen displays. There are two setup areas for VOIP: Ports and Discovery.

#### Ports




You can change the configurable TCP/IP UDP and TCP ports used for VOIP protocols. Touch a port number to activate the numeric keypad. Enter the port number and press OK.

#### Discovery

You can choose which VOIP station types will be discovered by the Network Assistant by pressing a check box next to any of the types.


### Running a Self Test

To run a self test on the Network Assistant, do the following:


1. Press  (**Self Test**) from the Central Setup screen.
2. Press  (**System Test**).
3. Press .

You will see notification (PASS or FAIL). If the System Test results in FAIL, contact the Fluke Networks Service Center.

### Configuring Remote Access

There are three different Remote Setup elements you can modify: Password Protection, Remote Browser, and Network Inspector IP Address. Press  (**Remote Setup**) to access these setup functions.

#### Password Protection

Press  (**Password Protection**) and then press the default password to enter a new one of your choosing. The same password will apply for SNMP Community Strings, Remote Control of the Network Assistant via a web browser, or Fluke Networks applications like Network Inspector.

#### Remote Browser

Color Setting – Pressing  (**Color Setting**) cycles you through the color combinations for the web display:

Yellow/Blue	Purple/White
Blue/White	Shades of Grey
Black/White	White/Black
White/Blue	Black/Red

#### Audible


Turn on or off the Network Assistant's audible sounds when being used with a web-remote connection.

#### Network Inspector IP Address

Enter the IP address of the remote station that is running Fluke Networks Network Inspector software.

#### *Changing the Network Assistant User Interface (UI)*

##### Adjusting Display Contrast

To adjust display contrast, press  **OneTouch UI Setup** from the Central Setup menu and then either  (**Minus Contrast**) or  (**Plus Contrast**) until the desired contrast is obtained.

##### Saving Battery Power

To save battery power, press **Auto Off** and **Backlight Auto Off** from the OneTouch UI Setup screen.

- ☐ **Auto Off** – when selected, the unit saves battery power by automatically turning itself off after 5 minutes of inactivity. If you are using the toner to transmit a tone or the AC Power Adapter to power the Network Assistant, it will not automatically turn itself off.
- ☐ **Backlight Auto Off** – when selected, the unit saves battery power by automatically turning the backlight off after 2 minutes of inactivity.



##### Disabling the Beeper

To disable the beeper, press **Audible** from the OneTouch UI Setup screen (the beeper is enabled by default). When the beeper is enabled, the Network Assistant sounds one of two unique tones to indicate:


- ☐ That a valid active area of the touchscreen was pressed.
- ☐ When an invalid item is pressed on the touchscreen.



### Using Online Help

Help provides information about the current display for all screens. Press  and then use the navigation keys to move around within the text display. Press  to exit.

### Selecting a Link Speed


To select 10 Mb/s, 100 Mb/s, or auto-sense (the default) for linking, press , then select from the list provided. Auto-sense, which is suitable for most applications, determines the hub speed (10 Mb/s or 100 Mb/s) and automatically selects that speed. This feature is not available on the OneTouch-10 Series II.

**Testing and Tracing Cables**

The Network Assistant can test the cable itself or trace the connectivity of the cable.


*Testing a Cable*

To test a patch cord ("patch cable"), do the following:

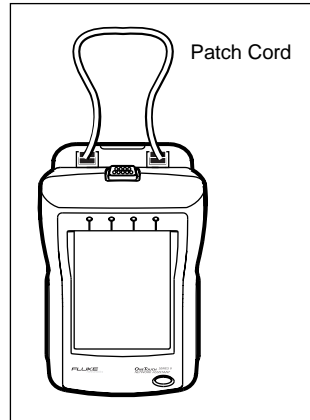
1. Press  to return to the top-level display.
2. Attach a patch cord as shown in Figure 13.

3. Press  (**AutoTest**).

The OneTouch Series II displays the pin-to-pin wiring of the patch cord as shown in Figure 14.

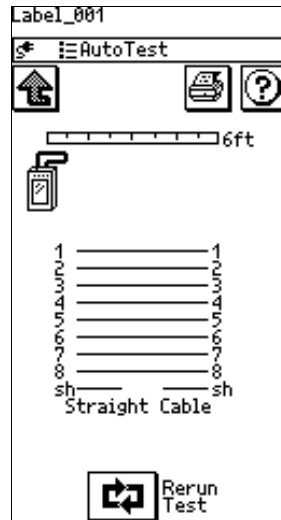
4. Remove the patch cord from the wiremap connector (the right-hand side).
5. Press  (**Rerun Test**).

The Network Assistant displays an open cable.



eo10f.eps

**Figure 13. Testing a Patch Cord**



eo26s.bmp



**Figure 14. Patch Cord Pin-to-Pin Wiring**

### *Tracing a Cable*

There are three ways to trace a cable that is connected to a network:

- Toner
- Cable Identifier
- Flash Hub Port

### *Using Toner*



From top-level display, press  (**Cable Tests**) then  (**Toner**) to transmit a low (185 Hz to 200 Hz) or high (350 Hz to 375 Hz) tone on the cable for use with a user supplied receiver, such as the Fluke 140 Tone Probe.

### *Using Cable Identifiers*



Use the Cable Identifiers in mapping a cable. (Cable Identifier #1 is standard equipment and comes with the OneTouch Series II; Cable Identifiers #2 through #6 are optional. See "Optional Equipment" in Chapter 1 of the *Users Manual*).

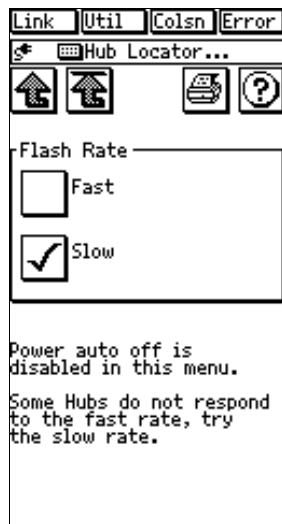
In mapping cables to individual offices from the wiring closet, OneTouch Series II identifies unique Cable Identifiers and displays the wiremap and adapter number.

To conduct a Wiremap Cable test, do the following:

1. Connect a Cable Identifier to the far end of the cable that you wish to identify (in the wiring closet, for example).
2. Connect the near end of the cable to the Network Assistant's RJ-45 network connector.
3. You can also connect the optional RJ-45-to-Punchdown block adapter to the RJ-45 network connector (with an RJ-to-RJ cable) and quickly map cables to individual offices by running either the  (**Wiremap Cable**) or  (**Cable AutoTest**).

**Using Flash Hub Port**


1. Connect the Network Assistant to the link you want to locate.
2. From the top-level display, press  (**NIC/Hub Tests**) then press  (**Flash Hub Port**) to locate where a particular link connects to a hub. The Hub Locator screen displays (Figure 15).
3. Select a flash rate. The Network Assistant sends either 1-second (**Fast**) or 4-second (**Slow**) link pulses that flash the LED on the hub, indicating the port to which Network Assistant is connected.
4. Note that some hub port link lights have a very slow response time. The Flash Hub Port feature may not work with these devices.



eo8f.bmp

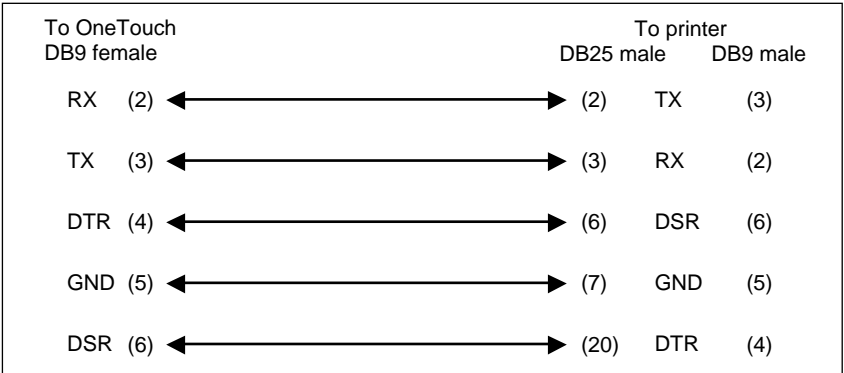
**Figure 15. Flash Hub Port Display**

**Saving or Printing Screens**

Access the Print Manager function by pressing  to save or print screens, add a label, configure serial communications, print previously saved screens, or to erase the saved screens.

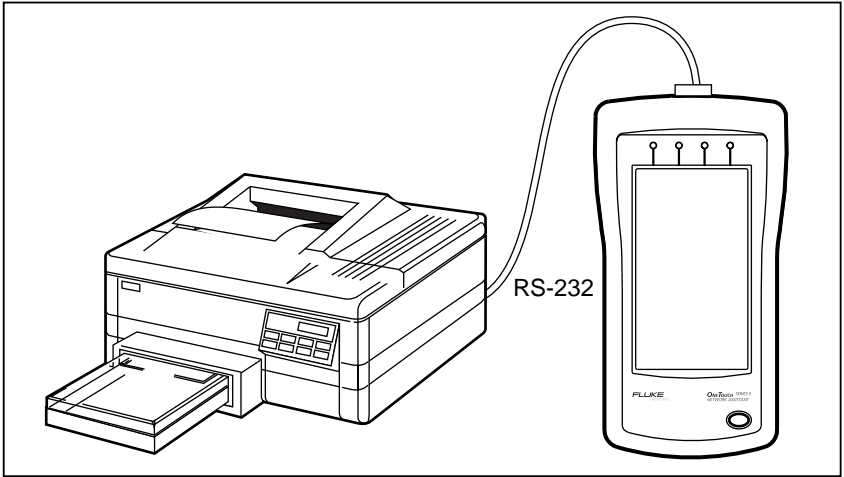
The number of screens that can be saved varies depending upon their content. Typically, you can save up to 64 screens in non-volatile memory. In order for the saving and printing functions to work completely, use an IBM AT computer style serial cable with DB-9 female and DB-25 male connectors.

The cable must be wired as shown in Figure 16 (requires serial port). If the printer does not have a serial port, see "Saving Screens." Additional RS-232 cables are available from Fluke. See "Placing Orders and Getting Assistance" in Chapter 1 of the *Users Manual*.



eo11f.eps

**Figure 16. Printer Cable Connections**




eo12f.eps


**Figure 17. OneTouch Series II Connected to a Printer**

*Saving Screens*



You can save screens while the Network Assistant is not connected to a printer or a PC but you will not be able to print or download them until connected to a printer or a PC. To save a screen, do the following:

1. Access the screen you wish to print.
2. Press  to access the Print Manager.

The Print Manager screen displays as shown in Figure 18.

3. Touch the smaller box under **Enable:** **Save with Label** to add a label (using the alphanumeric keypad) to the screen shot, which displays top-left on the downloaded image. The label can be helpful for recording what the screen shot corresponds to (e.g., PC No. 1, Joe's PC, etc.).
4. To save a screen press  (**Save Screen**).

The screen is now available for printing or downloading later. Use the OneTouch Link program to download screens to a PC.

5. Erase previously saved screens by pressing  (**Erase Saved Screens**)
6. If the OneTouch Series II is properly connected to a printer (Figure 17), press  (**Print Saved Screens**).



eo19s.bmp

**Figure 18. Print Manager Screen**


*Note*

*The steps outlined above assume you will complete the process of downloading screens as described in the online help for the OneTouch Link program.*


### **Checking a Network Connection**



One of the primary tasks you will perform with the Network Assistant will be to quickly check a network connection. The AutoTest function is the first task to perform in testing a connection. AutoTest detects the devices that are on the segment and tests for connectivity. After the Network Assistant is connected to the network as described earlier, follow the instructions below.

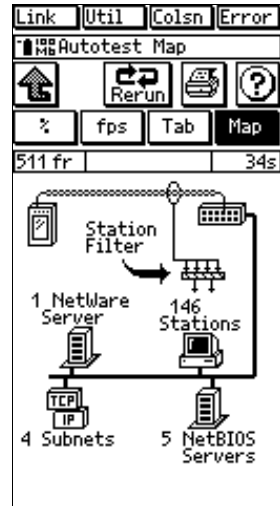
#### **Running AutoTest**

1. Press  (**AutoTest**) on the top-level display to run AutoTest.

Devices are shown on the AutoTest display (Figure 19). In this example, there are NetWare Servers (1), Stations (146), and NetBIOS Servers (5). The TCP/IP devices icon indicates the device and number of that type (i.e., alternately displayed below the icon are subnets, servers, printers, etc.).

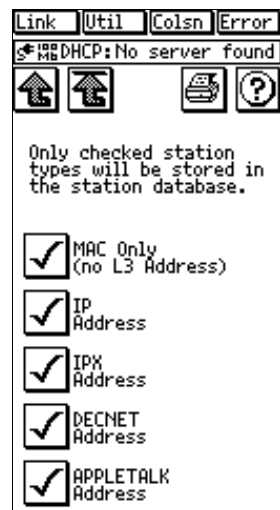
Press  (**Station Filter**) to restrict discovery to only the data you wish to view (Figure 20).

2. Press any of the displayed icons to see a popup screen that gives more information.
3. AutoTest continues to detect devices and to count errors until you exit the screen by pressing  (up one level) to return to the AutoTest display or  (home) to return to the top-level screen. The Network Health function runs in the background. See Chapter 2



Eo20s.bmp

**Figure 19. AutoTest Display**



e029s.bmp


**Figure 20. Station Filter Display**

of the *Users Manual* for more information on AutoTest.

**Checking Network Health**

Another primary task you need to perform is to check the overall health of a network.

Network Health monitors utilization (**Util**), errors (**Error**), collisions (**Colsn**), broadcasts (**Bcast**), protocols, and stations.

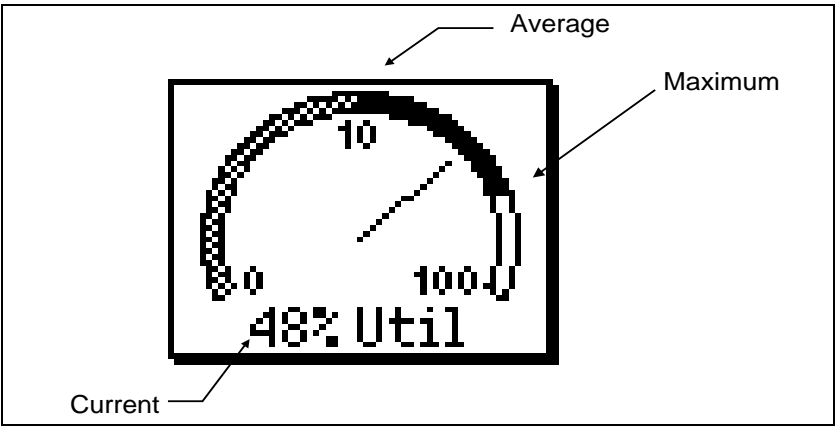
- 1. To check Network Health, press  (**Network Health**) from the top-level display.

In % and **fps** display modes, the Network Health display shows six meter icons representing key indications of the health of the network.

Each Network Health meter icon indicates current, average, and maximum values as shown in Figure 21.

- 2. To view the tabular (column) display, press (**Tab**) .
- 3. To view the information as percentage utilization, press (%).
- 4. To view the information as frames per second, press (**fps**)
- 5. To view a map of the network, press (**Map**).

Press on of the gauges for more detail about that network indicator.



**Figure 21. Network Health Test**






### ***Pinging a Station (Connectivity Tests)***

Pinging a station provides critical information about a station and verifies the connectivity of that station or resource. There are two ways to perform a ping: through the Ping Menu (**Connectivity Tests**) or through the Station List.

#### ***Ping via Ping Menu***

To ping a station or resource using the Ping menu do the following:

1. Press  (**Connectivity Tests**) from the main menu. The Connectivity Tests screen displays (Figure 22).
2. Press  (**IP & NetWare Ping**). The Ping menu displays where you can either press IP or Netware ping.
3. Enter the IP address (**IP Ping**) or network address (**NetWare Ping**) and press  (**Begin Ping**). The resulting screen reflects ping information for that device or resource.



See Chapter 6 of the *Users Manual* for more information.



eo22s.bmp

**Figure 22. Connectivity Tests**

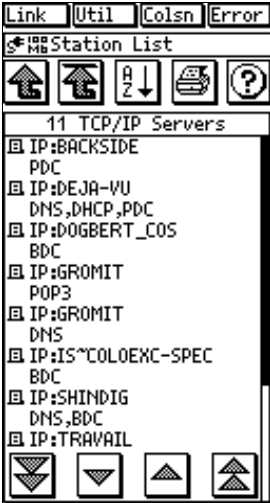
**Ping via any Station List**

1. To ping a station or resource via the Station List display, press Network Health from the main menu then select the **Map** tab. The Map screen displays.
2. From the Map screen, press the TCP/IP icon. The TCP/IP Devices screen displays.
3. Press the TCP/IP device type to list the desired devices. The Station List screen displays for that device type (Figure 23 shows TCP/IP Servers).
4. Select a station from the list. The Station Detail screen displays (Figure 24). From the detail screen you can discern whether the device or resource is running SNMP along with other pertinent information.
5. Press  (Tool Menu) to access the ping capability (Figure 25)
6. Press the **Ping + SNMP**, **Ping**, or **Key Device Ping** icon depending on what you are pinging.
7. You can also add any device you are trying to ping to the Key Device List by pressing  **Add To Key Devices**.

*Note*

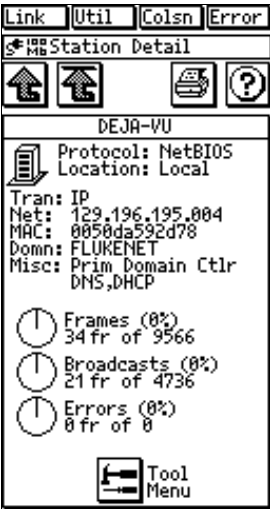
*To ping a different type of TCP/IP device type, select that device type from the TCP/IP Devices screen to access the station list for that device type.*

See Chapter 6 in the *Users Manual* for more information.



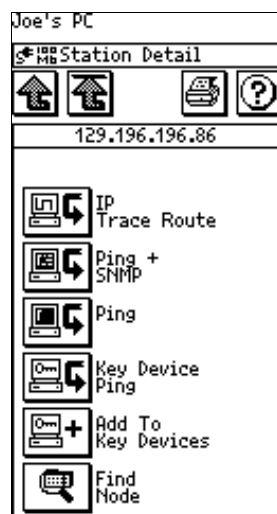
Eo23s.bmp

**Figure 23. TCP/IP Sample List**



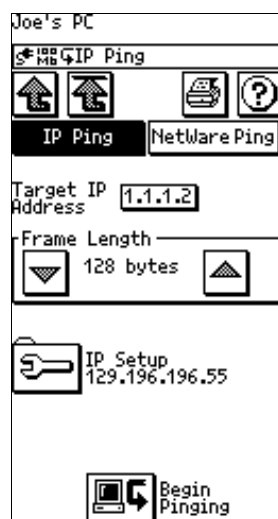
Eo27s.bmp

**Figure 24. Sample TCP/IP Station Detail Display**



**Figure 25. Tool Menu**


eo31s.bmp



**Figure 26. Ping**

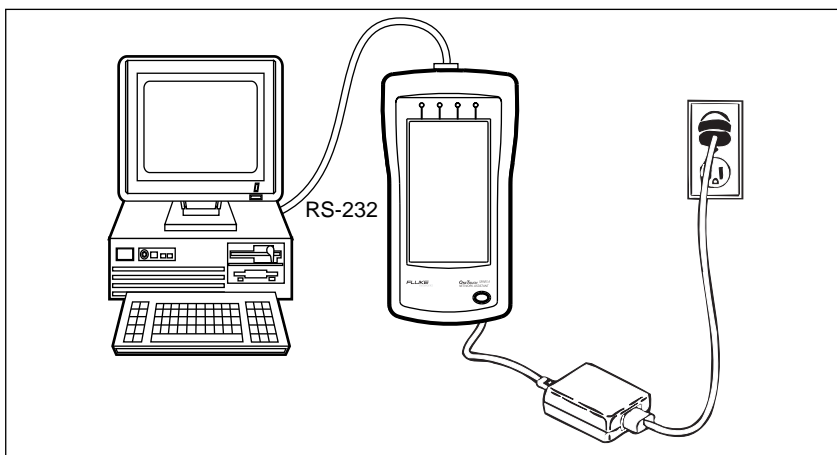
eo30s.bmp

#### Updating Software

Periodically, Fluke releases updates to OneTouch Series II software. To determine the version of the software in your Network Assistant, turn it on and then press .

The software version number is displayed on the Help screen. To find out if a newer version is available, access <http://www.flukenetworks.com> and access the OneTouch Series II area software download area. The latest version number will be displayed on that page. If there is a newer version, download the executable file from the website. For further assistance call Fluke Networks (USA: 1-800-283-5853, or send email to: [support@flukenetworks.com](mailto:support@flukenetworks.com)). For additional contact numbers, see Chapter 1 of the *Users Manual*.

In order to update the OneTouch Series II software, connect the Unit to your PC and plug it in to AC power as shown in Figure 27 and make sure the PC has the OneTouch Link program (on the product CD-ROM disk) installed.



eo13f.eps

**Figure 27. OneTouch Series II Connected to a PC**

### *OneTouch Link Program*

After you download the latest OneTouch software, updating OneTouch Series II is a simple process that requires you to install and run the OneTouch Link program that came on CD-ROM or from the website. Start the OneTouch Link program and follow the on-screen instructions to update your Network Assistant.

**If you downloaded the OneTouch Link program from the web**, run the self-extracting upgrade program “ots2r3.exe” to install a new version of the utility program on your PC.

After installing and starting the OneTouch Series II Link program, click **Help** or press **F1** and follow the instructions included in the online help as needed.



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