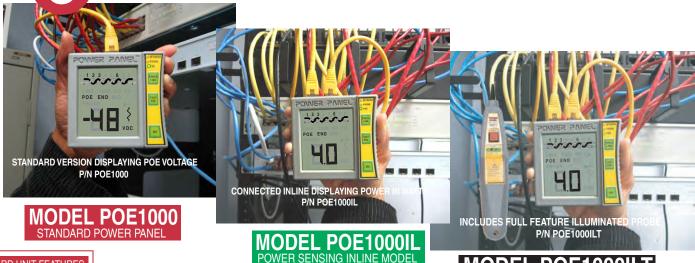
# POWER PANEL

## CAT5/6 DVM (JACK AND POETESTER)

POWER PANEL DVM MODELS TO CHOOSE FROM!



STANDARD UNIT FEATURES P/N POE1000

Scans pins and displays: PoE power: Volts, watts, cable pair location, end / midspan. Advertised data switch speed (10,100,1000 MB/s), duplex. Cable pair location. Phones (digital, analog) INTERACTIVE BUTTONS: VoIP phone and IP camera load simulator. Link pulse transmit button. OTHER FEATURES: Tone generation Port beacon, Auto shutoff

9V battery (included).

**INLINE FEATURES** P/N POE1000IL All of the features of the Standard model plus: POWER PASS THRU Two jacks allow PoE power to be passed to the PoE device so it can be tested. POWER MEASUREMENT Placed INLINE between two devices, the power draw of the device can be measured in watts. Too much power draw is the number one reason for IP/PoE network failure.

TONE STAR FEATURES P/N POE1000ILT All of the features of the INLINE model plus: AN ILLUMINATED PROBE The Tone Star model includes a full featured, filtered probe for tracing tones (wire location). The probe features an ultrabright LED lighted tip, filtering to block fluorescent hum. volume control, 2 status LEDs, adapters for alarm wire, RJ11, RJ45 and coax connectors.

MODEL POE1000ILT POWER PANEL TONE STAR

"The power panel lets you know what's there before you plug in."

"If you install VoIP or camera systems this will become your main tool."



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THE OLD WAY **OF TESTING FOR VOLTAGE** AND POWER

**TEDIOUS • TASTELESS** 







Made in the USA Patent pending Copyright 2010 Byte Brothers, Inc.

THE NEW WAY **OF TESTING FOR VOLTAGE** AND POWER

**SMART • ACCURATE** 



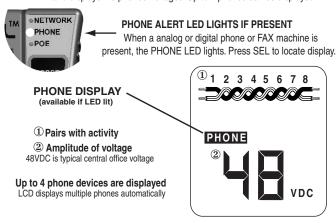
### CABLE AND POWER KITS

Special pricing when you combine the Power Panel with the Réal World Certifier.

CPK1000 RWC1000K and POE1000 CPK1000IL RWC1000K and POE1000IL

### PHONE IS ON CABLE

Although not allowed by any standard, digital and analog phones and FAXs are on CAT5/6 cables. These high voltage devices can damage other devices if you are not aware of their presence. The Power Panel CAT5/6 DVM searches for them, lights the ALERT LED and displays the phones' voltages. Up to 4 phones can be displayed.



**WARRANTY:** The manufacturer warrants to the original consumer that this product is in good working order for a period of one year from the date of manufacture or date of purchase. During this period, the product will be repaired or replaced without charge for either parts or labor. Repair or replacement as provided under this warranty is the exclusive remedy of the purchaser.

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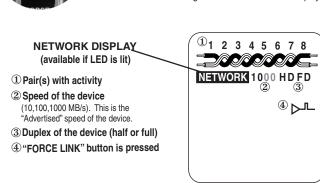
### **NETWORK DEVICE IS ON CABLE**

The Network LED indicates a active network device is present (switch, a PC NIC card, access point, VoIP phone, IP security camera, etc.). The Power Panel detects the link pulses, lights the ALERT LED and displays the pair(s), speed and duplex.



#### - NETWORK ALERT LED LIGHTS IF PRESENT

When a VoIP phone, IP camera, switch or other network device is spotted, the NETWORK LED lights. Press SEL to locate display.





**FORCE LINK BUTTON** Press if you suspect a network device is present but are receiving little or no link information (possibly an ALERT LED but no display). Some network devices refuse to "talk" unless prompted. The FORCE LINK button sends link pulses... prompting a dialog.

**LINK BEACON: When the FORCE** LINK button is latched, transmitted link pulses cause the link LED on the receiving device to blink. This helps locate ports in crowded panels. To "latch", hold the button for more than 5 seconds (link pulses will transmit for 30 minutes them timeout to save the battery). Press any button to unlatch. When latched, "Lb" displays on the LCD.

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### NETWORK POWER PANELTM

### CAT5/6 DVM AND POE TESTER + TONE

#### **USER'S GUIDE**

This is the perfect tool for detecting active network devices, power for VoIP phones, IP cameras and other devices on RJ45 jacks and cables. To trace cables or ports with the Locator Tone or Locator Port Beacon, see *Interactive buttons* at the bottom of the page.



**POWER ON:** Press any button.

**POWER OFF:** Press and hold the SEL (select) button until off.

BATTERY SAVER: No activity for 5 minutes shuts the Power Panel OFF.



**CONNECT THE POWER PANEL:** Connect the tester directly to the device you wish to test.





**WATCH ALERT LEDS.** They light if a network device is ON or if a phone or PoE voltage is present.



**SELECT A LCD DISPLAY.** Each lighted LED has a corresponding LCD display with information. Use the SEL button to move between displays.

NETWORK LED. See page 2. POWER LED. See page 3. PHONE LED. See back cover.

**Use the SEL button** to select between displays. Note: Display is available only if LED is lighted.



### INTERACTIVE BUTTONS LOCATOR TONE, PORT BEACON, FORCE LINK, TEST POE



Turns Power Panel ON and OFF. Selects LCD displays. After tester is ON, hold for 4 secs to turn on **Locator Tone**.



Press to prompt devices to talk to you. Hold for 5 secs to turn on **Port Beacon**. See page 2.

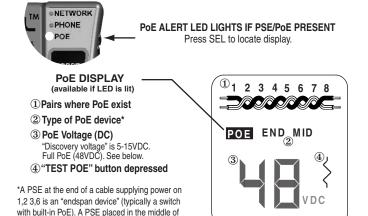


Simulates a Power over Ethernet (PoE) device, prompting full PoE voltage. See page 3.

Go to www.bytebrothers.com for more information about the Power Panel CAT5/6 DVM

### POWER OVER ETHERNET (PoE) IS ON CABLE

The PoE LED indicates that PoE voltage is present on the cable. This lights the alert LED and displays the pair(s) and amplitude of the PoE voltage. Further, pressing TEST PoE prompts the full 48VDC voltage (see glossary below).



**NOTE ON POWER (WATTS):** The Power Panel inline version (P/N POE1000IL) has 2 jacks. It can be inserted in between the PSE and PoE device to measure power draw.



a cable on pairs 4,5 7,8 is a "midspan device".

Tests the operation of the PoE voltage source by applying a load in compliance with both IEEE and Cisco standards. This load should trigger the full 48VDC PoE voltage.

WHAT IS POE: Power supplied to network devices over a CAT5/6 cable (no separate AC power required). Many VoIP phones, IP cameras and access points are PoE devices. WHAT IS PSE: Devices that supply PoE are "Power Sourcing Equipment". PoE capable switches and PoE injectors are examples of PSE devices.

PoE OPERATION: PoE standard IEEE 802.3af suggests that a PSE send a low power "discovery voltage" and when a proper load is sensed, apply the full voltage (48VDC).

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