



Model: EM424

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## CABLE TESTER

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### Features

The EM424 is a practical telecom & network installation, maintenance and troubleshooting tool for identification network ports and cables, and verifies active connections to the far-end of cable. The EM424 has unique feature of display signals from network hub/switch/NIC at far and end of cable on easy-to-read LED, and will flashes the port indicator to assist locating a single cabling link in a busy wiring closet, and enhance talk battery power supply to allow communication over inactive pairs, using telephone test sets. It provides two selectable tones which allow you to trace cable and locate faults, for troubleshooting both voice and data circuits. It also tests cable continuity; tests Line 1, Line 2 polarity and can determine line polarity and voltage in data and voice lines.

### Specifications

- Display signals from Network Hub/Switch/NIC at far end of cable on easy-to-read LED.
- Detecting network activity and speed 10 Base-T,

100 Base-TX, 100/10 or 1000/100/10 mbps.

·Flashes port lights on Hub/Switch or NIC for immediate port location in a busy wiring closet.

·Enhance talk battery power supply to allow communication over inactive pairs, using telephone test sets.



## WHAT CAN IT BE USED FOR?

**1**  
Verifying Active Network Port/Cable

**2**  
Sending/Tracing a Tone

**3**  
Supplying Talk Power

**4**  
Testing Cable Continuity

**5**  
Polarity Test - Identifying the Tip and Ring

**6**  
Verifying Telephone Line

## SPECIFICATIONS



**Net Probe**

**Battery:** 9V battery, 6F22 or equivalent, one piece  
**Size:** 217x45x31mm  
**Weight:** about 116g (including battery)



**Net Toner**

**Talk Battery:** about 9V  
**Voltage Protection:** 50V dc, 24V ac  
**Battery:** 9V battery, 6F22 or equivalent, one piece  
**Size:** 127x74x29mm  
**Weight:** about 125g (including battery)



## FEATURES OF THE NET TONER



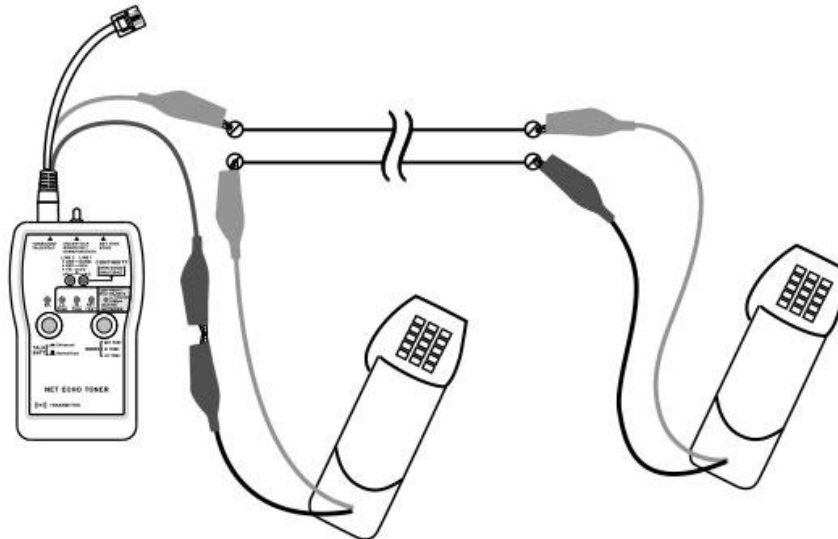
1. Tests the cable connection to an active network and determine this network's transmission speed: 10Base-T, 100Mbps, 10/100Mbps or 10/100/1000Mbps.
2. Flashes port light on Hub/Switch/NIC for immediate port location.
3. Provides two selectable tones which allow you to trace cable and locate faults.
4. Enhanced talk battery power supply to allow communication over inactive line pair, using telephone test sets.
5. A RJ45 adapter is supplied, it has two alligator clips and a RJ11 plug.
6. Tests cable continuity and determines telephone line polarity.
7. Low Battery Indication.



# IS THE TELEPHONE DEAD?

The Net Toner has a feature that allows users to communicate using telephone test sets, even when a circuit is dead.

1. Connect the RJ45 Adapter to the Net Toner, then connect the Net Toner and telephone test sets in series with the inactive circuit, as illustrated.
2. Set the toggle switch of the Net Toner to the " CONT/TALK " position.
3. Set the " TALK BATT " button to the " Enhanced " (down) position. This provides additional battery power to enable voice communication over the inactive circuit. Now you can communicate using the telephone test sets.



## FEATURES OF THE NET PROBE



1. Includes an adjustable volume control, a signal LED and an earphone jack for use in different environments.
2. Includes a RJ45 socket and a signal pick-up probe.
3. Determines telephone line polarity.
4. Low battery Indication.

## DETERMINES TELEPHONE LINE POLARITY

1. Move the switch at the left side of the Net Probe forwards to the " TEL " position.
2. Connect the telephone cable to be tested to the RJ45 socket at the right side of the Net Probe, or connect the Tip(+) line to the " - " terminal on the back of the Net Probe and the Ring(-) line to the "+" terminal.
3. Lighting " NORM. " LED indicates normal polarity. Lighting " REV. " LED indicates reversed polarity.

