



## 450T Instructions

### **Description**

The 450T Thimnet Tester has been designed to aid in the installation and service of Thimnet (coaxial) network cable systems. The tester provides a simple method of identifying open, shorted and 50Ω terminated cables. With two BNC test points, the unit can be used to check both installed cables (de-energized network) and pre-assembled patch cables. The hand held 450T provides simple test indication with the presence or absence of audible tone.

### **Battery Test**

To test for acceptable battery condition, connect the included BNC patch cable to the female connectors in the "patch cable" position. Move the toggle switch to the "test" position and listen for tone signal. A beeping tone indicates acceptable battery condition and confirms proper termination of the patch cable. A weak, erratic tone (or no tone) indicates the need to replace battery. To replace battery, slide back battery cover and replace with any standard 9 volt.

### **Test Function and Results**

The three result indicators are:

No Tone = Open

Solid Tone -- Short (conductor to shield)

Beeping -- Good Cable Assembly (recognized 50Ω termination\*)

### **Testing Patch Cables**

Connect cable to both female connectors on unit. Move toggle switch to "Test" position. Note tone indications.

### **Testing Installed Cables**

Be sure all network sites are powered off. Connect end of cable to female connector on tester marked "50Ω Terminated" (far-end terminator must be present). Move toggle switch to "Test" position. Note tone indications.

### **Application Note**

The advantage of the 450T is the ability to troubleshoot an installed cable run without monitoring visual indicators. A technician can connect the unit to a suspect cable run and work down a series of connectors (agitating connectors/cable) listening for changes in the audible tone indications. This one-man operation will speed installations and reduce service downtime.

\*The 450T will not confirm 50Ω terminator tolerance or loop resistance to within ANSI/IEEE-802.3 specifications