TC-NT2

PROFESSIONAL NETWORK TESTER

INSTRUCTION MANUAL

▲ REMOTE   ▲ LOOP BACK

▲ TESTER

RX

PIN-OUT

1 2 3 4 5 6 7 8 8

TX

1 2 3 4 5 6 7 8 8

TEST

1 2 3 4 5 6

BNC   TRACE

AUTO   OFF   ON/TONE

LAN CABLE TESTER & TONER

(((•)))

TRANSMITTER

⚠ NOT FOR LIVE CIRCUITS

1
2 1
3 2
4 3
5 4
6 5
7 6
8

SHIELD

REMOTE TERMINATOR

(((•)))

CE

The Network Cable Tester comes in two modular units, a master unit and a remote terminator. The modular design enables the tester to be used for local loop-back test of a patch cable or remote testing of pre-installed premise wiring. The Network Cable Tester verifies continuity of individual wires and identifies open, shorted and cross-connected wires. It comes with shielded connectors, which enables the testing of shielded twisted pair (STP) cables. It also features the convenient Auto Scanning and Manual Scanning modes. Furthermore, a tone generator is also included and individual pins/wires can be selected to carrying a tone that can be picked up with Net Probe or any tone probe for you easily locate cables. This tester is a perfect companion to any Network professional.

The Network Cable Tester comes complete with BNC to RJ45 adapters for testing of coax BNC network and a RJ45 to RJ45 patch cord for testing patch panel and RJ45 network wall plates. Everything comes packaged in a convenient carrying pouch. Other optional adapters such as, RJ45 to USB A/B, 1394 6 pin, RJ45 to 1394 4 pin and F to BNC can be added to expand the Network Cable Tester functionality.
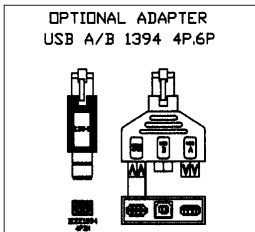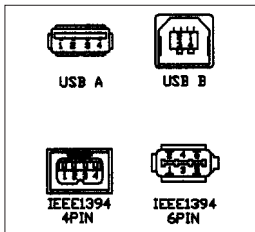
FEATURES:

1. Tests pin to pin connection of cables.
2. For loop-back and remote testing.
3. Auto - scan and manual step testing.
4. Checks for opens shorts and cross connected wires.
5. Tests Lan, Telcom, UTP/STP and coax BNC cables.
6. Tone feature easily locates remote cable ends.

CAUTION: NOT FOR USE ON LIVE CIRCUITS.
              DOING SO WHERE VOLTAGE IS PRESENT
              MAY DAMAGE THE TESTER.

A. LOOP-BACK TEST

1. To test patch cords, plug both ends of the cable to be tested

into the respective jacks (TX, RX) on the master unit.

2. Set the power switch to ON.

(a) Auto Scan Mode:

Press and release the ＊ AUTO ＊ button, the LED in the TX row will scroll in sequence (1,2,..., shield and repeat), to indicate the pins being tested. The RX row of LED will light (or not), in relation to the TX row, to indicate status.
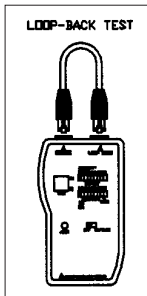
(b) Manual Scan Mode:

By pressing the ＊ TEST ＊ button, the tester will change from Auto Scan to Manual Scan mode. The TX row of LED will hold or flash to indicate the pin being tested. The RX row of LED will light (or not), in relation to the TX row, to indicate status.

Any subsequent press of the ＊ TEST ＊ button will advance the LED to the next one in sequence (1,2,3,..., shield and repeat).

(c) LED Status:

When combining the information indicated by the RX and TX LEDs, a cable pin-to-pin configuration (cross,

3

straight, reverse, miss-wire...etc.) can be determined.

1.Continuity:		Pin 3 is continued
2.Open:		Pin 3 is opened
3.Short:		Pin 3 and Pin 4 are shorted
4.Miswire:		Pin 3 and Pin 5 are miswired
5.BNC-TEST		BNC-TEST-OK

i) If more than one LED from the same row is lit or if TX & RX LEDs are unlit simultaneously-
   This indicates a " short ".

ii) If a LED is skipped - This may indicate an " open " or a burnt out LED.

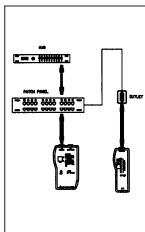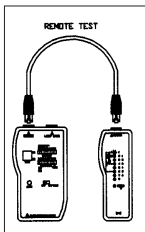iii) If no LED will light - please check or replace your battery.

3. **To test BNC, USB or other cable** configurations please use the appropriate adapters and follow the above procedure. See RX and TX LED for test result.

4
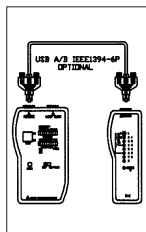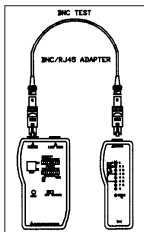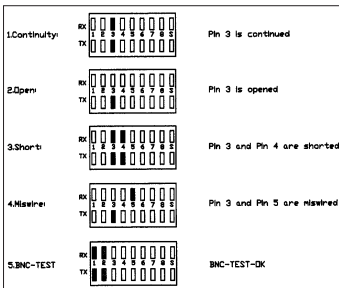
B. REMOTE TEST

1. Connect one end of the test cable to the MASTER unit marked " TX " .

2. Set the power switch to ON and set the tester to Auto scan. The TX LED will begin to scroll in sequence (1,2,3,..., shield and repeat), to indicate the pins being tested. Use a patch cord (included) if the test cable terminates into a wall jack or patch panel.

3. At the remote location, connect the other end of the test cable to the Remote terminator. The LED on the Remote terminator will light (or not) in relation to the Master tester unit to indicate status.

4. To test BNC, USB or other cable configurations, please use the appropriate adapters and follow the above procedure.

C. SENDING TONE TO IDENTIFY CABLES

Using Network cable tester ' s tone generator along with Net Probe or any other tone probe, enables one to quickly isolate and locate a hidden cable or a break (open) in the middle of a

5

cable

1. Set the power switch to ON/TONE and by pressing the
   " TEST " button to select a pin to carry a tone or set the
   tester to " AUTO " scan, a sequencing tone is supplied on
   each of the 8 pins, shield and BNC cable. Or set the main
   unit on shield position.
2. The tone signal can then be received by the Net Probe (PR-
   06P) or any tone probe for tracing cables hidden in walls,
   patch panels or cables in a bundle.
3. Simply trace along the cable from the master unit using the
   tone as a guide, towards the remote end of the test cable
   until the tone disappeared will indicate the location of the
   break.
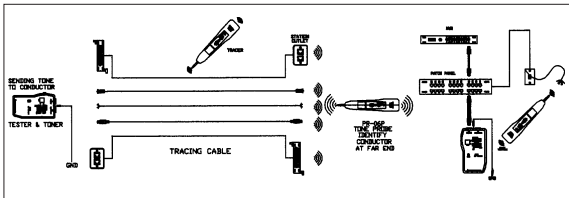
D. PRODUCT PACKAGE

1. Master unit and remote unit.
2. RJ45 to BNC adapters.

6

3. RJ45 to RJ45 patch cord.
4. Carrying pouch.
5. User guide.

E. REMARKS
1. The Master tester runs on one 9V standard or alkaline battery.
2. Please make sure the battery is fresh and have sufficient power. If a battery is weak or fails, the LED indicators will be dim or fail to light. The tester may not scan.
3. Please take out the battery if you do not need to use the tester for any extended period.

F. RODUCTION SPECIFICATION
1. Dimensions main : 4.9 X 2.7 X 1.0 ″ (125 X 68 X 26)㎜
               remote : 5.1 X 1.3 X 1.0 ″ (130 X 32 X 26)㎜
2. Operating temp. : 0 ˚C ∼ 45 ˚C
3. Weight : 0.41 lb. 0.18 ㎏
4. Power Req. : One DC 9V battery
5. Tone freq. : 600 — 800 HZ