



OPERATOR'S MANUAL

CV25

10BASE-T/T568 LAN Cable Tester

BEDIENUNGSANLEITUNG

MANUAL DE INSTRUCCIONES

MANUEL D' UTILISATION

WARRANTY

Wavetek Cable Verifiers, CV20 Series, CV30 Series, FV40 Series, and CV50 Series are warranted against any defects of materials or workmanship within a period of one (1) year following the date of purchase of the cable verifier by the original purchaser or original user.

Any cable verifier claimed to be defective during the warranty period should be returned, with proof of purchase, to an authorized Wavetek Corporation service center or to the local Wavetek dealer or distributor where the cable verifier was purchased.

Any implied warranties arising out of the sale of a Wavetek cable verifier, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the above stated one (1) year period. Wavetek shall not be liable for loss of use of the cable verifier or other incidental or consequential damages, expenses, or economical loss or for any claim or claims for such damage, expenses or economical loss.

Some states do not allow limitations on how long implied warranties last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

FEATURES

The CV25 is a simple, low-cost approach to testing any T568 style cables for correct continuity. As well as testing 10BASE-T cables for opens, shorts and crossed wires, the CV25 will alert you to the presence of split pairs. It's easy to use and can fit easily in your pocket or tool kit. The two-piece design allows users to test cables either before or after installation.

OPERATION

Your CV25 is turned on using the slide switch on the right hand side of the tester. With nothing connected, all five leds will remain dark. When the unit is first turned on, the leds will momentarily flash and the tester will beep as a self-test is performed. If the CV25's leds appear dim or they fail to function, simply replace the 9-volt alkaline battery in the rear of the master unit.

When the CV25 tests a cable, there are several ways that information is conveyed to the user. All eight wires are tested for correct T568 connections. If all eight wires appear to be open at the far end (no shorts and no remote unit connected), then the CV25 will perform a split pair test.

led off - means that at least one wire in that pair is open.

led on - means that both wires in that pair are correct.

led flashes - means that a short or reverse is detected.

four leds flash - means that some sort of swap is detected.

any beep - means that some type of error is being displayed.

To test T568 or 10BASE-T cables for correct continuity, the CV25 remote unit **MUST BE CONNECTED** at the far end of the cable. If all pairs are wired correctly and no faults of any type are found, then all pair leds will light continuously and the SPLIT lamp will remain dark.

If a short or a reverse is detected within a pair then that led will FLASH. If wires from two different pairs are shorted together then both leds will FLASH.

If a swap of any kind is detected, then the top four leds will flash. This would also occur if all four pairs were somehow shorted together, however this is very unlikely.

To test a cable for split pairs, the CV25 remote unit **MUST BE DISCONNECTED**. A split pair (sometimes called a double split) is defined as an identical swap on both ends of the cable between the same two pairs. If a split is detected, then the SPLIT led will light. Also, the leds corresponding to the pairs that are split will flash at the same time. This is accomplished by sending out an AC signal on each pair and measuring the resulting near-end crosstalk (NEXT) on the other pairs.

Note: The leds corresponding to each pair will only light steadily if the pairs are correctly wired. Some flickering will occur during continuity testing but can be easily distinguished from a FLASH and there will be no corresponding BEEP when there are no cable faults. The beeper will not sound if all four pairs are open as it will be interpreted as a "disconnected" condition.

SPECIFICATIONS

<i>Power Requirement</i>	9-volt alkaline battery
<i>Package Size</i>	4.5 X 2.3 X 1.0 inches
<i>Shipping Weight</i>	1 pound
<i>Operating Temperature</i>	0 to 45 degrees centigrade non-condensing
<i>Cable Types Supported</i>	T568A, T568B and 10BASE-T using RJ45 connectors
<i>Maximum Cable Length</i>	200 meters
<i>Fault Conditions Tested</i>	Opens Shorts Swaps or Reverses Split pairs



Manual Revision 6/98
Manual Part Number 1000-1502-00

Information contained in this manual is proprietary to Wavetek and is provided solely for instrument operation and maintenance. The information in this document may not be duplicated in any manner without the prior approval in writing from Wavetek.

*Specifications subject to change
WAVETEK and the Wavetek logo are registered trademarks of the Wavetek Corporation.*

© Wavetek Corporation 1998

**U.S. Distribution & Service Center
Wavetek**

9045 Balboa Ave., San Diego, CA 92123
Tel: (619) 279-2200
Toll free: 800-854-2708
Fax: (619) 450-0325
Internet: <http://www.wavetek.com>

**European Distribution & Service Center
Wavetek Ltd.**

Hurricane Way, Norwich, NR6 6JB,
England
Tel: (44) 1603-404-824
Fax: (44) 1603-483-670