

D250

10BASE-T/CAT 5 Tester

GUIDE TO OPERATION



DARKSTAR TECHNOLOGIES

P.O. Box 2368
West Lafayette, IN 47906
United States of America

Features

The D250 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 D250 will even 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 D250 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 D250'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 D250 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 D250 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 D250 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 D250 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

Power Requirement	9-volt alkaline battery
Unit Size	4.5 X 2.3 X 1.0 inches 11.5 X 5.9 X 2.6 centimeters
Shipping Weight	1.0 lb / 0.45 kg
Operating Temperature	0 to 45 degrees centigrade non-condensing
Cable Types Supported	T568A, T568B and 10BASE-T (CAT 5) using RJ45 connectors
Maximum Cable Length	200 meters
Fault Conditions Tested	Opens Shorts Swaps or Reverses Split pairs

Technical Assistance

Customer support is obtained through the distributor from which you purchased your tester. If you still have problems or cannot locate your distributor, you may reach us via fax at (765) 775-4073 or via our website at www.darkstar.crowecorp.com/

Warranty

Darkstar Technologies warrants its products against defects in materials or workmanship for a period of one year from the date of purchase. Any product that is returned shipping prepaid will be inspected and tested, and items meeting warranty conditions will be repaired or replaced free of charge. Please contact your distributor if repair or replacement is required.

