

# D350

## 10BASE-T / CAT 5 Tester

### GUIDE TO OPERATION



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## *Features*

The D350 is a simple, low-cost approach to testing any T568 style cables for correct continuity. As well as testing 10BASE-T cables, the D350 will alert you to the presence of an active hub and can even detect the presence of network traffic. 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 D350 is turned on using the slide switch on the right hand side of the tester. The center switch position is the OFF position while the "up" and "down" positions activate the tester in either the CABLE mode or the TRAFFIC mode. With nothing connected, all five leds will remain dark. When the unit is first turned on, the leds will momentarily flash and a beep will be heard as a self-test is performed. If the D350's leds appear dim or they fail to function, simply replace the 9-volt alkaline battery in the rear of the master unit.

## *D350 Traffic Mode*

When you connect the D350 to a cable in the traffic mode, it checks to see if the cable is connected to a 10BASE-T hub. If a hub is detected, the HUB / SPLIT led will light to indicate the presence of link bits. If Ethernet packets are seen in the circuit, then the led will flash. If this led is dark then the hub is dead or the cable is open or unconnected.

**Note:** 100BASE-T hubs will also be detected by the D350, but the faster link bits will cause the HUB/SPLIT led to flash; with or without traffic.

## *D350 Cable Mode*

When the D350 tests a cable for continuity, there are five 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 D350 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 D350 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 HUB / 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 D350 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 HUB / 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

<b>Power Requirement</b>	9-volt alkaline battery
<b>Unit Size</b>	4.5 X 2.3 X 1.0 inches 11.4 X 5.9 X 2.6 centimeters
<b>Shipping Weight</b>	1.0 lb / 0.45 kg
<b>Operating Temperature</b>	0 to 45 degrees centigrade non-condensing
<b>Cable Types Supported Using RJ45 Connectors</b>	T568A, T568B and 10BASE-T (CAT 5)
<b>Maximum Cable Length</b>	200 meters
<b>Fault Conditions Tested</b>	Opens Shorts Swaps or Reverses Split pairs
<b>Traffic Test</b>	10BASE-T hub detection Network traffic detection

## ***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/](http://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.

