

D220

Coaxial Cable Tester

GUIDE TO OPERATION



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Features

The D220 is a simple, low-cost approach to testing coaxial cables for thin Ethernet (10BASE-2). It's easy to use and can fit easily in your pocket or tool kit. The D220 performs five different tests on your coax and displays the status using leds. The two-piece design allows users to test cables either before or after installation.

Operation

Your D220 is turned on using the slide switch on the right hand side of the tester. With nothing connected, the OPEN CABLE led will light. If the D220 leds appear dim or they fail to function, simply replace the 9-volt alkaline battery in the rear.

When you connect the D220 to a thinnet cable, it first checks to see if the cable is "live" by looking for Ethernet packets. If network traffic is seen, the LIVE CABLE led will light and no further tests will be performed.

If the cable is "open" (or unconnected) and no terminators are seen, then the OPEN CABLE led will light.

If the cable or one of the BNC connectors is shorted, then the SHORTED CABLE led will light.

The CABLE OK led will light if the cable's continuity is good and the D220 remote terminator is seen at the other end of the cable.

Note: The D220 remote terminator is simply a 75 Ohm terminator which is recognized by the D220 and used for testing purposes only. It should not be confused with the 50 Ohm terminators that are used at each end of an installed thinnet cable.

The 50 Ohm terminators themselves may be tested by simply plugging one into the D220. If they are within 2% of fifty Ohms, then the 50Ω TERMINATOR led will light. If you connect the D220 to an installed cable which has a 50 Ohm terminator installed at each end, then the 50Ω TERMINATOR and the CABLE OK leds will both light together.

If any unusual resistance conditions are seen that don't match one of the scenarios described above, then the OPEN CABLE and the SHORTED CABLE leds will light together. This suggests that some fault exists that the D220 cannot identify and may require the use of a more sophisticated tester.

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	Any coax with BNC connectors
Terminator Test	50Ω only
Maximum Cable Length	200 meters
Fault Conditions Tested	Open > 1000 Ohms Shorted < 10 Ohms Cable OK 70 to 80 Ohms 50Ω 49 to 51 Ohms 25Ω 20 to 30 Ohms Undefined all else
Traffic Test Parameters	10 MHz differential Manchester

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.

