

Quick Card

OneAdvisor-800 Modular Test Set

Measuring Optical Power Levels with a 4100-series OTDR Module

This procedure describes how to use an E4100-series OTDR module as an Optical Power Meter (OPM). If optioned, the OTDR module can operate as an OPM or Optical Light Source, but not at the same time. Light Source is a standard feature on most new OTDR modules, while Power Meter is an option.

Equipment Requirements:

- OneAdvisor-800 equipped with the following:
 - Fiber Optics Software Release V19.92 or greater
 - E4100 Series OTDR Module
 - E41OTDRPM Power Meter option
- Fiber optic cleaning and inspection tools
- Reference Cable (patch cord) with connectors matching the OTDR port and Fiber Under Test
- Optical Coupler to connect Reference Cable to Fiber Under Test



Figure 1: Equipment Requirements

The following information is required to complete the test:

- Type of Fiber (Multimode or Single Mode)
- Type of Connectors (SC UPC, SC APC, LC UPC, etc.)
- Wavelength(s) to be tested (850nm, 1300nm, 1310nm, 1550nm, etc.)

Fiber Inspection Guidelines:

- Use the VIAVI P5000i or FiberChek Probe microscope to inspect both sides of every connection being used (OTDR Port, Reference Cable, bulkhead connectors, patch cords, etc.)
- Focus the fiber on the screen. If dirty, clean the end-face.
- If it appears clean, run inspection test.
- If it fails, clean the fiber and re-run inspection test. Repeat until it passes.

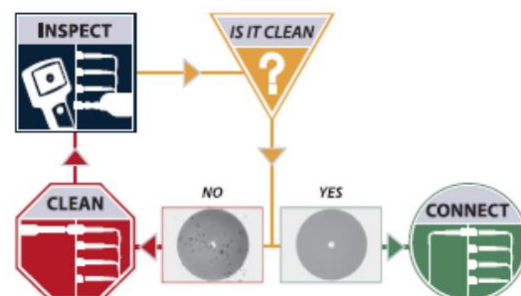


Figure 2: Inspect Before You Connect (IBYC)

