

OPTICAL LOSS TEST INSTRUMENTS ●

TECHLITE™ Professional Grade LED Test Set PX-D102

FEATURES

- 850nm / 1300nm LED SOURCE
- 850nm / 1300nm / 1310nm / 1550nm METER
- LARGE CHARACTER GRAPHIC DISPLAY
- 0.01dB RESOLUTION w/ ZERO REFERENCE
- INTERCHANGEABLE METER ADAPTERS
- TEMPERATURE STABILIZED OPERATION
- QUICK CHARGER BUILT IN
- SEALED WATERPROOF CARRY CASE



Application and Description

The TECHLITE™ series of test sets are intended to allow technicians to perform precise optical measurements in the field. The meters, when operated in absolute power mode, are used to determine the level of optical power being emitted from a transmitter. In relative mode, the meters are used with the included source to perform fiber loss measurements or splice tuning operations.

TECHLITE™ meters and sources were designed to be rugged. As with all Photonix test instruments, the internal circuitry is housed within an aluminum extrusion with high impact rubber bumpers. This meter can be driven over with an automobile and has even been known to have survived a 24' drop onto concrete. When stored in its protective waterproof carry case (included when purchased with a light source as a test kit), the set can even be submerged several feet underwater. In addition, the instruction guide is fully laminated to make it weather resistant and virtually tear-proof.

The included TECHLITE™ PX-B200 meter features NIST traceable calibration at 4 wavelengths: 850nm, 1300nm, 1310nm, and 1550nm with measurement power levels as high as +3dBm or as low as -60dBm. The meter also features a true resolution of 0.01dB at ALL power levels thereby allowing the technician to trust measurements below -45dBm. The TECHLITE™ meter, in relative measurement mode, will store the zero reference reading for all four wavelengths independently in non-volatile memory. This allows all zero references to be taken at one time and also allows the unit to be turned off while moving between locations preserve battery life. Also in relative mode, the meters will also display a 1dB analog type deviation pointer and an unaveraged mini-display for real-time splice tuning. The TECHLITE™ meters utilize a graphic LCD screen to create unusually large and easy to read numbers as graphics to indicate power levels.

The included TECHLITE™ PX-C202 source offers the ability to operate one or both outputs simultaneously in either CW, 30Hz, 500Hz, or 2kHz modulation for use with leak detectors or fiber identifiers.

The TECHLITE™ meters are powered by either four AA alkaline batteries or an AC wall pack with four AA NiMH cells (both the wall pack and NiMH cells are included). In addition to standard charge mode, the units feature an emergency quick charge mode that allows the user to charge the batteries in approximately 1 hour.

Specifications

Model	PX-D102	Operating Temperature	0C to 50C
Wavelength	850/1300nm	Storage Temperature	-10C to 60C
Fiber Size (maximum)	100/140	Humidity	10% to 90% non-condensing
Port Style	ST	Power	NiMH 4-AA, ALK, AC 120VAC/60Hz
Source Pmin (dBm)	-17	Typical Battery Life	10+ Hours (typ.)
Source Stability (dB/8hr)	+/-0.05 (850nm), +/-0.08 (1300nm)		
Source Bandwidth (nm)	35 (850nm) / 170 (1300nm)		
Meter Range (dBm)	+3 to -60 (1300/1310/1550nm)		
	+3 to -55 (850nm)		
Meter Resolution	0.01dB		
Meter Accuracy (dB)	+/-0.25		
Meter Detector	Ge		