

OPTICAL LOSS TEST INSTRUMENTS ●

TECHLITE™ / LANLITE™ Hybrid 1300nm LED Test Set PX-D701

FEATURES

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



Application and Description

The Photonix hybrid TECHLITE™ / LANLITE™ hybrid series of test sets offers an economical compromise for those requiring the precise optical measurements of our TECHLITE™ series meters yet the low price and simplicity of our LANLITE™ sources. 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 LANLITE™ 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. Tough enough to be driven over, the sets have even been known to survive a 24 foot drop onto concrete. In its protective waterproof carry case (included when purchased with a light source as a test kit), the set can even be fully submerged. 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 meter is powered by either four AA alkaline batteries or an AC wall pack with four AA NiCd cells (both the wall pack and NiCd 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.

The included TECHLITE™ PX-C101 source is powered by a single cartridge loaded 9V battery (eliminating troublesome battery snaps) which will yield a typical battery life of 14 hours. A low battery indicator is included on both units to ensure accurate measurements.

Specifications

Model	PX-D701	Operating Temperature	0C to 50C
Source Wavelength	1300nm	Storage Temperature	-10C to 60C
Fiber Size (maximum)	100/140	Humidity	10% to 90% non-condensing
Port Style	ST, FC, SC, others avail (meter) ST only (source)	Power	NiCd 4-AA, ALK, AC 120VAC/60Hz
Source Pmin (dBm)	-20	Typical Battery Life	10+ Hours (typ.)
Source Stability (dB/8hr)	+/-0.08 (1300nm)		
Source Bandwidth (nm)	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		