

OPTICAL LOSS TEST INSTRUMENTS

TECHLITE™ / LANLITE™ Hybrid Dual LED Test Set PX-D702

FEATURES

- 850nm / 1300nm 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 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 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 4 hours.

The included TECHLITE™ PX-C102 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

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| Model | PX-D702 |
| Wavelength | 850/1300nm |
| Fiber Size (maximum) | 100/140 |
| Port Style | ST, FC, SC, others avail (meter) ST only (source) |
| Source Pmin (dBm) | -20 |
| 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 |

| | |
|------------------------------|--------------------------------|
| Operating Temperature | 0C to 50C |
| Storage Temperature | -10C to 60C |
| Humidity | 10% to 90% non-condensing |
| Power | NiMH 4-AA, ALK, AC 120VAC/60Hz |
| Typical Battery Life | 12+ Hours (typ.) |

Note: Meter accuracy specified at room temperature and calibration point of -30.0dBm for each wavelength. Source power and long-term stability specifications are assuming constant room temperature. Source launch power will vary with fiber core size and with use of mandrel wraps.