

OPTICAL LOSS TEST INSTRUMENTS ●

LANLITE™ Dual ST Test Set PX-D202

FEATURES

- ULTRA LOW COST
- 850nm / 1300nm OPERATION
- TRUE STANDALONE METER
- 0.1dB RESOLUTION METER
- EASY CHANGE 9V BATTERY
- TEMPERATURE STABILIZED
- LOW BATTERY INDICATION
- WATERPROOF CARRY CASE



Application and Description

This set was designed to provide the test technician with an inexpensive, accurate, and easy to use instrument kit for making power and loss measurements in the fiberoptic LAN environment.

The LANLITE™ optical test sets consist of a LANLITE™ series power meter, light source, instruction manual, batteries, and waterproof carry case. LANLITE™ meters are used to measure power levels in an optical fiber. They are NIST traceable test instruments featuring a dynamic range as broad as 50dB and a high contrast LCD display with a resolution of 0.1dB even though priced competitively with low performance go / no-go continuity testers (offered by some as a fiberoptic LAN testing solution).

LANLITE™ sources give the technician temperature stabilized light outputs suitable for loss testing when used with the above meter. By measuring the amount of light launched by the source into a fiber link then measuring the amount exiting, the technician can determine the amount of loss in that link.

The test set offers 850nm and 1300nm operation to provide power or loss measurement solutions for most fiber testing challenges in the LAN environment. The carry case included with this set is waterproof not just water resistant. This means that the test set, when stored in its carry case, will survive being submerged in up to several feet of water. The instruction guide is fully laminated to make it water resistant and nearly tear-proof. Power for both the meter and source is supplied by a single cartridge loaded 9V battery (eliminating troublesome battery snaps) which will yield a typical battery life of 80 hours and 14 hours respectively. A low battery indicator is included on both units to ensure accurate measurements.

Regarding durability, the LANLITE™ test sets are built of machined aluminum, not plastic, and therefore have structural integrity and a feel superior to that of most fiber test equipment. In fact, as with the TECHLITE™ products, LANLITE™ sources and meters can literally be driven over with an automobile. Finally, they are very easy to use. To make a power measurement, simply connect the fiber, flip the power switch and begin testing.

Specifications

Model	PX-D202	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 (meter)	Interchangeable	Power	Standard 9V Alkaline
	2.5mm (ST, SC, FC) cap included	Typical Battery Life	14+ Hours (Source), 80+ Hours (Meter)
	1.25mm (LC, MU) cap available		
Source Pmin (dBm)	-20 into 62.5/125		
Source Stability (dB/8hr)	+/-0.05, 0.08		
Source Bandwidth (nm)	35/170		
Meter Range (dBm)	0 to -50		
Meter Resolution	0.1dB		
Meter Accuracy (dB)	+/-0.3		
Meter Detector	Ge, large area 2mm		

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.