

# OPTICAL LOSS TEST INSTRUMENTS ●

## TECHLITE™ Fiber Optic Return Loss Meter (FORLM) PX-D301

### FEATURES

- 1300nm OPERATION (1550nm AVAILABLE)
- VERY FAST DUAL PROCESSOR DESIGN
- LARGE CHARACTER GRAPHIC DISPLAY
- ANALOG TYPE TUNING BAR
- RUGGED ALUMINUM PACKAGING
- FC-APC, ST-APC, or SC-APC
- NiMH, ALKALINE, OR AC OPERATION
- QUICK CHARGE FEATURE
- WATERPROOF CARRY CASE



### Application and Description

The TECHLITE™ Fiber Optic Return Loss Meter (FORLM) is intended to allow technicians to perform precise optical return loss measurements in the field. The meters basically indicate the the difference between the amount of light transmitted into a fiber component or system vs the amount reflected back into the transmitter. A high level of return loss is often desirable in singlemode communications systems in order to prevent data errors due to old data reflections interacting new data.

Although compact in size, the TECHLITE™ FORLM is designed to be rugged. As with all Photonix test instruments, the internal circuitry is housed within an aluminum extrusion with high impact rubber bumpers. 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 in weather resistant and virtually tear-proof.

The TECHLITE™ FORLM is a full featured unit. It features a menu driven sequential setup routine to assist with the sometimes confusing startup procedures required when using return loss meters. A mandrel wrap fixture is included for zeroing and the FORLM can be calibrated against the included reflector, a -14.7dB reference reflector, or a -30.0 reference reflector. The TECHLITE™ meters utilize a graphic LCD screen to create unusually large and easy to read numbers as graphics to indicate power levels. 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

<b>Model</b>	PX-B301	<b>Operating Temperature</b>	-5C to 45C
<b>Detector</b>	InGaAs	<b>Storage Temperature</b>	-10C to 60C
<b>Wavelength</b>	1310nm	<b>Humidity</b>	10% to 90% non-condensing
<b>Range</b>	+0 to 55 dB	<b>Power</b>	US 120VAC 60Hz (included) NiMH 4 "AA" 600mAh (included) Alkaline 4 "AA"
<b>Resolution</b>	0.05dB	<b>Battery Life</b>	10 hrs.
<b>Accuracy</b>	+/- .5dB @ Cal	<b>Trickle Charge</b>	12-14 hours
<b>Source Power</b>	>-3dBm		
<b>Display</b>	dB		
<b>Backlight</b>	No		
<b>Auto Power Off (7 min.)</b>	No		