PHOTONIX TECHNOLOGIES

OPTICAL TROUBLESHOOTING INSTRUMENTS

TECHLITE™ MILITARY GRADE LED/LASER TEST SET
PX-D110M

PRODUCT OVERVIEW

The TECHLITE™ PX-D110M test sets allow technicians to perform precise optical measurements in the field. When operated in absolute power mode, the B220M meter is used to determine the level of optical power being emitted from a transmitter. In relative mode, it is 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. In addition, the instruction guide is fully laminated to make it weather-resistant and virtually tear-proof.

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 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-C202M LED source offers advanced temperature and coupling stability as well as enhanced CPR performance to provide superior test accuracy. Both the PX-C202M and the PX-C205M LASER sources, offer 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 units 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 4 hours. A 20 minute auto power off feature is also switch selectable from the top panel on all units.

PX-B220M

PX-C202M

PX-C205M

Note: Photos may vary from actual product

FEATURES


MADE IN USA

- Meter: 850nm / 1300nm / 1310nm / 1550nm
- LED Source: 850nm/1300nm
- LASER Source: 1310nm/1550nm
- Reel style connector cleaner
- SC,FC,LC and ST adapters
- SMF patch cords ST-FC, ST-SC, ST-LC
- MMF patch cords ST-FC, ST-SC, ST-LC
- Crush resistant aluminum bodies
- 0.01 dB Meter resolution
- Interchangeable meter adapters
- Controlled LED CPR operation
- Built in quick charger
- Sealed waterproof carry case
- Two year warranty

Photonix Technologies, Inc. , 48 Washington Avenue, Endicott, NY 13760
Phone: 1-800-404-5868 , Fax: 607-786-4603
WWW: http://www.fiber.cc

SPECIFICATIONS

POWER METER PX-B220M

Parameter	Value
Wavelength	800-1600nm
Calibration Points	850,1300,1310,1550nm
Power Range	+3 to -55dBm
Resolution	0.01dB
Accuracy	+/-0.25dB
Linearity (+3 to -40dBm)	+/-0.30dB
Linearity (-40 to -55dBm)	+/-0.50dB
Repeatability	+/-0.10dB
Detector	Ge
Operation Modes	dB,dBm, Watts
Light Susceptibility	<-55dBm

LED SOURCE PX-C202M

Parameter	Value
Wavelength	850,1300nm (+/-30nm)
Fiber Size	62.5/125 (max)
Port Style	ST
Source Pmin	-21dBm
Stability(4hr)	+/-0.10dB
Stability(0-50°C)	+/-0.50dB
Repeatability	+/-0.10dB
Bandwidth	35(850nm)/170(1300nm)
CPR at 850nm	25-29dB +/-1.0
CPR at 1300nm	21-25dB +/-0.5
Modulation	CW,30Hz,500Hz, 2kHz
Warmup Time	15 minutes

LASER SOURCE PX-C205M

Parameter	Value
Wavelength	1310,1550nm(+/-30nm)
Line Width	5nm
Port Style	ST
Pmin(9/125)	-10.0dBm CW
Stability	+/-0.10dB (4hr)
Stability	+/-0.75dB(0-50°C)
Repeatability	+/-0.20dB
Bandwidth	5nm(1310,1550nm)
Modulation	CW,30Hz,500Hz, 2kHz
Warmup Time	15 minutes

ALL PRODUCTS

Parameter	Value
Operating Temp	0°C to 50°C
Storage Temp	-20°C to 60°C
Humidity	10% to 90% non-cond.
Line Power	110/220VAC, 50-60Hz
Battery Power	NiMH 4-AA or Alkaline
Battery Life	10 Hours(typ)
Charge Time	12 Hours(typ) Trickle
Charge Time	4 Hours(typ) Quick
Performance Spec	MIL-T-28800

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