

DIAMOND

Fiber Optic Equipments

TEST AND MEASUREMENT EQUIPMENTS

DESCRIPTION

LISSY is an automatic system designed to perform absolute and linearity calibration of optical power meters.

FEATURES

- ▶ Complete calibration and linearity measurement over 60 dB can be performed in less than 30 minutes
- ▶ Diamond multi-adapter system (MAS) provides the flexibility to interface with E-2000™, SC, FC, DIN, ST™ and F-3000™ connectors
- ▶ Instrument database (for automation of calibration process) may be extended by the user
- ▶ Possibility of performing manual calibration
- ▶ Supports RS-232, RS-422, IEEE488 interfaces and communication protocols.

SPECIFICATIONS

- ▶ Minimum system insertion loss: 4.5 dB
- ▶ Dynamic range:
 - one step: 70 dB
 - two steps: > 100 dB*
- ▶ PDL: < 0.05 dB
- ▶ Positioning precision: < 0.005 dB
- ▶ Measurement uncertainty¹:
 - Partial Non-linearity²: < 0.006 dB
 - Global Non-linearity³: < 0.05 dB

* Extending the dynamic range reduces the accuracy of the measurement.

¹ The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $K = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%. The following non-linearity levels are best measurement capabilities.

² Partial non-linearity is calculated for each step. This calculation uses the dynamic power levels as a reference.

³ Total non-linearity uses a fixed reference power level. Therefore, it is the sum of the partial non-linearity of the previous steps. Here we report the total non-linearity for a 60 dB-measurement.

TECHNICAL DATA

Power: 12 VDC, 0.6 A, 7W
Dimensions: 364 x 147 x 363 mm (14.3 x 5.7 x 14.5 inches)
Weight: 5 kg (11 lbs)

NOTE Please contact your local Diamond representative for additional information

LISSY

(Linearity Superposition System)



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Specifications subject to change without notice

BDD 1950374 015