# **FOS 1200A OMI Instrument** Laser Transmitter Optimization



## Reduces time spent optimizing laser transmitters Measures OMI automatically

### **DOCSIS-compatible**

Useful for several key applications

The new 1.2GHz FOS 1200A is the fastest, most effective tool available for optimizing laser transmitter performance in the forward and return bands. With the powerful ability to measure OMI, users can reduce time spent optimizing transmitters by 85% or more compared to alternative approaches,

Traditional methods for setting OMI require several pieces of expensive laboratory-grade equipment, along with a highly trained engineer familiar with the manual tasks for determining the level. As several variables can and do affect OMI, this is a time-consuming process, taking as long as an hour or more per transmitter to complete.

When using the FOS 1200A, all of these variables are taken into account automatically, eliminating the need for manual tasks and calculations. In addition to saving time, by incorporating all necessary components into a single device, users save valuable money and the easy-to-use device can be operated by technicians of all levels.

#### Applications for CATV & Multi-Channel Operators

- Laser transmitter setup
- Laser transmitter maintenance
- Network troubleshooting
- Performance benchmarking

#### Applications for CATV Equipment Manufacturers

- Laser transmitter development & manufacturing
- Quality assurance testing

#### Display/Front Panel Specifications:

Status/Control Display Display Status Mode Selection

- mW or dBm
- Wavelength
- Relative/Absolute
- Number of Channels
- Wavelength
- Mode
- Optical Power
- RF Power
- OMI per Channel
- OMI Total

2 line, 48 character LCD (backlight)

Front Panel SPST Push Button Switch Front Panel SPST Push Button Switch Front Panel SPST Push Button Switch Three section BCD Push Button Switch 1290nm to 1610nm Absolute, Relative mW or dBmW Estimated per Carrier Power in dBmV; ± 2dB

Measured in Percent Peak (Fro Chan N > 1) Measured in Percent RMS

# Pptics, Inc.

(919) 342-5619 | sales@m2optics.com www.m2optics.com Internal Optical Input Front Panel Optical Input Adapter Optical Input Nominal Standard OMI Reading Accuracy Optical Receiver ENI Integrated Optical Attenuator Optical Input Threshold, Typical Measurement Threshold Standard with Option 1 (see below) FC/APC, front panel accessible SC/APC Standard (Others Optional) -8 dBmW to +2 dBmW ±10% of the OMI reading; ± 0.2% ≤ 4.8 pA per root Hz; 15 MHz to 1200 MHz 0.25 to 25 dB Continuous from Front Panel -2 dBmW Optical, 85 channels, 1% OMI -3 dBmW Optical, 79 channels, 3.5% OMI 8 dBmW Optical, 79 channels, 3.5% OMI

#### **RF Specifications:**

RF Output Connector RF Output Return Loss RF Output Level, Above Threshold Output (3 dB) RF Frequency Range RF Output Flatness (Typical) Internal Attenuator Range Internal Attenuator Accuracy Internal Attenuator Flatness RF Output Distortion Performance 75 ohm BNC > 16 dB typical; > 12 dB max 2dBmw Total RF Power (No Attenuation) 15 MHz to 1200 MHz ±0.75 dB (20 MHz to 1200 MHz) 0 to 44 dB in 2 dB steps ±0.25 dB (20 MHz to 1200 MHz) ±0.25 dB (20 MHz to 1200 MHz) CSO, CTB - better than -70 dBc

#### **Additional Specifications:**

Temp Range (No Damage) Overall Dimensions AC Power Requirements AC power Range -20 to +60 degrees C (No Damage); 0 to +50 degrees C (Operating) 10" Deep X 8" wide X 4.75" High (excluding Handle) 110V/220V, 50-60 Hz, < 25 Watts Total 85V to 250V

