ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Calibration of FPM-300 Optical Power Meter



Overview

Three-year warranty and recommended calibration interval, for dramatically reduced cost of ownership.

Key Takeaways

The EXFO FPM-300 Optical Power Meter can be calibrated using auto-wavelength referencing with compatible source units or through professional calibration services to ensure accurate optical power measurements.Auto-Wavelength Calibration

The FPM-300 is designed to automatically use the proper calibration parameters when paired with compatible EXFO source units such as the FLS-300 or FOT-300. These sources transmit a wavelength-identification digital encrypted signal, allowing the power meter to automatically adjust its calibration for the specific wavelength being measured. This feature reduces manual errors and ensures consistent referencing even when the source and meter are physically separated .

Manual Referencing Procedure
• Connect the source (FLS-300 or FOT-300) to the FPM-300 using the appropriate fiber connector (FC, SC, ST, or LC).

• Select the desired wavelength on the power meter. Each wavelength must be referenced separately.

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• Set the reference value by measuring the source power and storing it in the meter. This ensures that subsequent measurements reflect only the fiber loss or absolute power relative to the reference .

• Avoid disconnecting the reference test jumper during measurements to maintain accuracy. The FPM-300 supports multiple wavelengths commonly used in PON and FTTH networks, including 1310 nm, 1490 nm, and 1550 nm, as well as additional wavelengths up to 1625 nm .
Professional Calibration Services

For high-accuracy requirements or periodic verification, the FPM-300 can be sent to ISO-compliant calibration facilities. These services provide:

• Traceable calibration to NIST standards

• Verification across all calibrated wavelengths

• Adjustment of the InGaAs detector for consistent performance

• Certificates of calibration for documentation and compliance Professional calibration is recommended at intervals suggested by EXFO, typically every 12 to 24 months, depending on usage and environmental conditions .
Maintenance Tips for Accurate Calibration
• Always inspect and clean fiber connectors before measurement.

• Store the meter in its carrying case when not in use.

• Avoid exposing the meter to extreme temperatures or humidity outside the specified operating range (-10 °C to 50 °C, 0–95% non-condensing), .

• Replace batteries or use the AC adapter to prevent power interruptions during referencing. By following these procedures, the FPM-300 maintains high accuracy and reliability for optical power measurements in telecommunications, data communications, and other fiber optic applications.

Article Content

FPM-300 | Spec sheet | EXFO

Three-year warranty and recommended calibration interval, for dramatically reduced cost of ownership. The FLS-300 or FOT-300

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Your source can transmit a user-defined power value to compatible power meters (such as FPM-300)

EXFO FPM-300 Power Meter : Instruction Manual

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To add wavelengths to the FAV list (or to remove them): 1. Hold down (power meter) a few seconds. The unit enters the FAV list and

Exfo FPM-300 Optical Power Meter Calibration

Professional Exfo FPM-300 Optical Power Meter calibration services, repair, sales and rental.

Exfo FPM-300 Optical Power Meter Calibration

The Exfo FPM-300 Optical Power Meter is a reliable and versatile instrument designed for accurate measurement of optical power

EXFO FPM-300 Power Meter : Instruction Manual

For example, the calibration validity period can be longer or shorter depending on the intensity of use, environmental conditions and

FPM-300

The FPM-300 Power Meter is part of EXFO''s new line of handheld units, which includes the FLS-300 Light Source and the FOT-300

FPM-300 Power Meter

Power autonomy of 300 hours Three-year warranty and recommended calibration interval, for dramatically reduced cost of ownership

FPM-300

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FTM-300 Power Meter

Ergonomic, eye-catching handheld package The FPM-300 Power Meter is part of EXFO''s new line of handheld units, which includes

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Original EXFO FPM-300 Optical Power Meter

With a high-power option and 10 calibrated wavelengths, the FPM-300 is the most complete, yet simple power meter available.

EXFO FPM-300 User Manual

Page 1 FPM-300/FLS-300/FOT-300 Power Meter/Light Source/Optical Loss Test Set User Guide

Exfo FPM-300 Optical Power Meter Calibration

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Optical power and loss test kits | EXFO

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FOT-600 - Optical loss test set Part of EXFO''s 600 handheld series, which includes the FPM-600 Power Meter and the FLS-600

EXFO Optical Power Meter-FPM-300 : Caspin Verna

Description Optical Power Meter-FPM-300 With a high-power option and 10 calibrated wavelengths, the FPM-300 is the most

EXFO FPM-300 Specs

The FPM-300 Power Meter is part of EXFO''s new line of handheld units, which includes the FLS-300 Light Source and the FOT-300

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View and Download EXFO FPM-300 user manual online. Power Meter/Light Source/Optical Loss Test Set.

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Your source can transmit a user-defined power value to compatible power meters (such as FPM-300)

EXFO FPM-300 Power Meter : Instruction Manual

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Exfo FPM-300 Optical Power Meter Calibration

Professional Exfo FPM-300 Optical Power Meter calibration services, repair, sales and rental.

FPM-300 | Discontinued product | EXFO

Power meter with Bluetooth connectivity, a wide touchscreen and best-in

EXFO FPM-300 OPM Repair and Calibration Services

Professional in-lab EXFO FPM-300 handheld fiber optic power meter repair and calibration services for

EXFO FPM-FLS-300 User Guide

Your source can transmit a user-defined power value to compatible power meters (such as FPM-300) through the fiber. If the

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To ensure maximum power and to avoid erroneous readings: Always clean fiber ends as explained below

EXFO FPM-300 Repair and EXFO FPM-300 Calibration

We have decades of expertise in EXFO FPM-300 Optical Power Meter repair and EXFO FPM-300

FPM-300 Power Meter

The FLS-300 or FOT-300 units can transmit with a wavelength-identification digital encrypted protocol, enabling the FPM-300 Power

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Exfo FPM-300 Optical Power Meter Calibration

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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