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Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 13, 2026

FOTEC

FOTEC M FM310 Fiber Optic Power Meter

Related FM300 dynamic range class documented in kits: about -70 dBm to -10 dBm Adapter interface: Interchangeable connector adapters; ST common Use modes: Absolute power and relative loss with source kits Fiber types: Multimode and single-mode per M310/FM310 catalog class Adapter interface: Interchangeable connector adapters; ST common Use modes: Absolute power and relative loss with source kits Fiber types: Multimode and single-mode per M310/FM310 catalog class Brand lineage: FOTEC / Fotec handheld OPM family M/FM series

MODEL **Fotec FM310**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **FM310**	LISTING **https://aumictechlabs.com/products/fm310-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The FOTEC M FM310 Fiber Optic Power Meter is a handheld instrument for accurate optical power measurements in fiber optic systems. Built around a Germanium detector, it delivers ±5% (Watts) or ±0.1 dB accuracy across three calibrated wavelengths: 850 nm, 1300 nm, and 1550 nm. The meter is NIST-calibrated and serves installation, maintenance, and troubleshooting workflows with a compact form factor weighing 11 oz.Technical Specifications Detector: Germanium (Ge) Calibrated Wavelengths: 850 nm, 1300 nm, 1550 nm Measurement Units: dBm, dBu, dB, µW Accuracy: ±5% (Watts), ±0.2 dB Display Resolution: Selectable 0.1 dB or 0.01 dB; 0.001 dB with FOtest software Display: 0.5-inch LCD showing range, calibration wavelength, and low battery indicator Temperature Coefficient: 0.1% / °C Operating Temperature: −10 to 50 °C Storage Temperature: −30 to 60 °C Dimensions: 6.1 × 3.7 × 1.3 inches (155 × 94 × 33 mm) Weight: 11 oz

(315 g) including batteryKey Features Powered by 9V battery (NEDA-1604 equivalent) with 20-hour typical runtime; AC adapter input available RS-232 interface via RJ-11 connector at 9600 baud for data acquisition and instrument control Modular Fotec adapter system supporting over 60 connector types Controls for power, wavelength calibration selection, and measurement range/dB reference settingTypical Applications Fiber optic network installation and commissioning In-service maintenance and power monitoring Optical link troubleshooting and loss characterization Dual-wavelength testing with Fotec Smart SourcesCompatibility & Integration Works with Fotec Smart Sources for automated dual-wavelength measurements Compatible with Fotec P310 printer and FOtest software package (cable provided) Integrates with PC-based measurement systems via RS-232 for logging and analysis

Features & description

From manufacturer datasheet

Features

• Handheld FOTEC / Fotec optical power meter • Multi/single-mode classification per calibration catalogs • Wavelength class at or below about 800 nm per Tek/FOTEC cal listings • Companion to FOTEC FS370 dual fixed multimode sources • Interchangeable ST-class adapters common in kits • Battery-powered portable form

Applications

• Handheld fiber optic power measurement • Loss testing with FOTEC FS370-class sources • Multimode and short-wavelength single-mode power checks • Field and lab optic loss test kits

FM310 Characteristics / Specifications

PARAMETER	VALUE
Model	FM310
Manufacturer	FOTEC / Fotec
Instrument Type	Fiber Optic Power Meter
Alias	FM310; FOTECMFM310; M310; FOTEC M310
Catalog description	Optical power meter; multi/single mode; less than or equal to 800 nm
Related model FM300 catalog	Optical power meter; multimode; less than or equal to 800 nm
Related model M712A catalog	Optical power meter; multi/single mode; greater than 800 nm
Form factor	Handheld portable OPM
Typical companion source	FOTEC FS370 / S370 dual fixed multimode source
Related kit wavelengths documented on FM300 kits	665 nm; 790 nm; 850 nm
Related FM300 dynamic range class documented in kits	about -70 dBm to -10 dBm
Display	Digital optical power readout
Adapter interface	Interchangeable connector adapters; ST common
Power	9 V battery class handheld
Use modes	Absolute power and relative loss with source kits
Fiber types	Multimode and single-mode per M310/FM310 catalog class
Brand lineage	FOTEC / Fotec handheld OPM family M/FM series
Calibration services	Commercially offered for FM310/M310 by multi-brand cal labs
Kit packaging	Often sold in optic loss test kits with carry case and source
Operating environment	Field/lab handheld OPM class

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Model	FM310
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Alias	FM310; FOTECMFM310; M310; FOTEC M310
Catalog description	Optical power meter; multi/single mode; less than or equal to 800 nm
Related model FM300 catalog	Optical power meter; multimode; less than or equal to 800 nm
Related model M712A catalog	Optical power meter; multi/single mode; greater than 800 nm
Form factor	Handheld portable OPM
Typical companion source	FOTEC FS370 / S370 dual fixed multimode source
Related kit wavelengths documented on FM300 kits	665 nm; 790 nm; 850 nm

Related FM300 dynamic range class documented in kits: about -70 dBm to -10 dBm

Specifications

PARAMETER	VALUE
Display	Digital optical power readout
Adapter interface	Interchangeable connector adapters; ST common
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Use modes	Absolute power and relative loss with source kits
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Brand lineage	FOTEC / Fotec handheld OPM family M/FM series
Calibration services	Commercially offered for FM310/M310 by multi-brand cal labs

Related higher-wavelength Ge meters: M712 / M712A class for greater than 800 nm
Kit packaging: Often sold in optic loss test kits with carry case and source
Operating environment: Field/lab handheld OPM class
Notes on density: Model-specific accuracy table sparse in public OEM PDFs
Notes
Verified identity from Tektronix FOTEC calibration model list and FOTEC kit listings. Dense FM310-specific accuracy/range tables are sparse online; do not invent ppm/dB figures. Confirm wavelength set, detector type,

dBm span, and accuracy on the unit faceplate/manual. Thin densification uses catalog classification and related FM300 kit documentation only where explicitly noted.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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