

# fiber power meter for FTTH/FTTP

# FM-1318

## Description

The FM-1318 Fiber Meter is a hand-held, compact, lightweight, and easy-to-use battery powered optical power meter. Together with any of Wilcom's Fiber Sources, this team makes a perfect combination for accurately testing multimode and singlemode optical fiber systems

The FM1318 offers measurements in dBm, dBr, and microwatts, and measures optical power from + 5 dBm to -70 dBm, and the FM-1318C measures optical power from + 26 dBm to - 45 dBm. The optical input port on the FM1318 accepts any Wilcom thread-on style adapter caps. Adapter caps are required for operation and must be ordered separately.

Both units have calibrated wavelengths of 850nm, 1300nm, 1310nm, 1490nm, 1550nm, and 1625nm allowing these units to test passive optical networks (PONs) at the three main wavelengths recommended by the ITU-T (G.983.3) for use in fiber-to-the-home (FTTH), and fiber-to-the-premise (FTTP) networks. The FM-1318 and FM-1318C are also ideal for general singlemode and multimode fiber optic testing.



## Features and Benefits

- ✓ **Multiple Wavelengths**  
*Time and cost savings with one power meter for multiple wavelengths.*
- ✓ **Excellent Dynamic Range**  
*A wide dynamic range that covers a variety of multimode and singlemode applications.*
- ✓ **Singlemode and Multimode Applications**  
*One test set for all your power and link loss testing.*
- ✓ **Hand-Held, Battery Operated for Field Use**  
*Don't get stuck away from the truck with a dead meter; your batteries last longer, and our low battery indicator is an early warning system that gives you plenty of time.*
- ✓ **Low Power Consumption**  
*Unit uses two commonly available AA Alkaline batteries to provide power for greater than 100hrs of continuous use.*
- ✓ **Reference Store**  
*Unit easily stores a reference measurement making "zeroing" out the meter a simple step saving valuable time.*
- ✓ **Single Key Operation**  
*Ease of operation is provided for by single key entry for wavelength selection, and optical power measurements.*
- ✓ **Modulation Detection**  
*Unit detects 2-kHz and displays a visual indicator.*

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## Specifications

<b>MODEL</b>	<b>FM-1318 / FM-1318C</b>
Detector Type	InGaAs
Power Range	( +5 dBm to -70 dBm - FM-1318 ) ( +26 dBm to -45 dBm - FM-1318C )
Wavelength	850nm, 1300nm, 1310nm, 1490nm, 1550nm & 1625nm
Accuracy	+/- .25dB ( measured at 23°C, 1310nm @ -20dBm)
Resolution	0.01 dB
Display	4 digit LCD
Modes	<b>dBm</b> ( absolute power ), <b>dBr</b> ( relative power ), <b>λ</b> (wavelength), <b>μW</b> ( absolute power in microwatts )
Low Battery	Visual Indicator
Signal Over Range	Visual Indicator
2 kHz Detection	Visual Indicator
Reference Store	dB reference stored in non-volatile EEPROM
Auto Shut Off	5 minutes with no activity
Auto Off Disable	5 minutes auto off disabled
Power	Two (2) AA Alkaline Batteries / (>100 hours continuous use)
Operating Temp.	-10 to + 40°C
Storage Temp.	-20 to + 60°C
Size / Weight	6.3"H x 3.3"W x 1.3"D (160 x 83 x 33mm) / 0.49lbs (220g)
Accessories	Unit includes a padded carrying case with window allowing convenient use of the unit while in the case, instruction manual, and batteries.
<b>CE</b>	

## Ordering Information

<u>Model No.</u>	<u>Part No.</u>
FM-1318 - w/o Charger	30131810
FM-1318C - w/o Charger	30131820
<u>Optional</u> NiCAD Battery Charger Kit ( 110VAC only - batteries included )	30032241-01

### Optional Adapter Caps

ST™ Adapter Cap	04419812
SMA Adapter Cap	04419809
FC Adapter Cap	04419857
SC Adapter Cap	04419716
Biconic Adapter Cap	30031983
LC Adapter Cap	30032070
Universal Port Adapter Cap ( accepts any 2.5mm ferrule )	30031992

## Options

<u>Model No.</u>	<u>Part No.</u>
<b>FTTP-LTS-1 Kit:</b>	30FTP010
<ul style="list-style-type: none"> <li>• FM-1318 Power Meter, • FS-1318 Fiber Source</li> <li>Launch Cable - SM SC/UPC / SC/UPC, SC Adapter cap, and Hard Carrying Case</li> </ul>	
<b>FTTP-LTS-1C Kit:</b>	30FTP012
<ul style="list-style-type: none"> <li>• FM-1318C Power Meter, FS-1318 Fiber Source</li> <li>Launch Cable - SM SC/UPC / SC/UPC, • SC Adapter cap, and Hard Carrying Case</li> </ul>	



## Warranty

The Wilcom Model FM-1318 Fiber Meter is warranted for a period of one year to be free of defects in material and workmanship.

# Wilcom

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08/07 813-252-005  
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