



FIBER MASTER MINI OTDR (FMM-1315) is a touch screen operational and intended for use on single mode and NZDS fiber optic systems for locating faults and irregularities on Optical Fiber Cable during Installation and subsequent maintenance. FMM1315 is "Real-time" operation equipment, during which it displays the current fiber trace and the current 2-point loss between two user selected points essentially used to measure Splice loss, connector loss, and fiber attenuation, Reflectance of points, link optical return loss and distance to fiber events. It can also be used for estimating the length of O.F. Cable and attenuation attributed by the same.

FEATURES:

Real-time operation

- Single control to start the measurement and Touch screen operational system.
- Automatically measures the attenuation coefficient of all continuous sections of fiber separated by discrete loss discontinuities plus sum the cumulative loss to each discontinuity for the entire span within the instrument's measurement range and shall list of all events on a fiber, the table shall include distance to events, splice position, splice loss, return loss, end of fiber distance, fault position, section loss and other items and total loss calculation etc.
- The instrument provides an indication to indicate that the end of the fiber has been found if it detects a break in the fiber or if the attenuation at a point exceeds a user-selectable loss threshold.
- User-friendly Software for personal computers running Microsoft Windows for recalling stored trace information and doing trace analysis.
- Integral floppy disk drive

Technical Specifications:

Type of Fiber	:	Single Mode as per ITU-T G 652 and NZDS ITU-T G 655
Central Wavelength	:	1310 nm \pm 20nm and 1550 nm \pm 20nm
Dynamic Range	:	(a) 34dB (one way) at 1310 nm (b) 32dB (one way) at 1550nm (at SNR = 1)
Near end Dead Zone	:	20m
Event Dead Zone	:	4 m
Distance Measurement	:	
1. Distance Range	:	Settable (Horizontal Scale settings)
2. Sampling Resolution	:	50 cm
3. Accuracy	:	
0 – 5 Km	:	\pm 1 Meter
5 – 30 Km	:	\pm 2.25 Meter
30 Km & above	:	\pm 2.5 Meter

Read out resolution	:	10 cm
5. Data Sampling point	:	$\geq 65,000$
Attenuation Measurement	:	LSA, 2 Points
1. Vertical Scale	:	20 to 60 dB
2. Read out Resolution	:	0.001dB
3. Accuracy	:	± 0.05 dB/dB
Refractive Index	:	1.250000 to 1.750000 (Adjustable in settings steps of 0.00001)
Reflectance Measurement	:	± 4.0 dB
Averaging time upto date	:	≤ 180 seconds (in Auto mode)
Auto Measurements		
Measurements Items		Event distance, Loss, return loss, loss from near end and return loss
a) Threshold	:	
1) Connection loss	:	0.05 to 5.0dB
2) Return Loss	:	20 to 60dB
b) Automatic setting	:	Pulse width, distance range aver ageing times
c) Event registration	:	Registration of event points section Loss, return loss etc for event points shall be measured and shall be used to create the event table.
d) Connection check	:	On / Off Switchable
Manual Measurements	:	Real time sweeping, point to point distance / loss measurement, point to point loss measurement per unit length, return loss measurement, Splice / connection loss measurement, and the total return loss with selectable averaging time.
Distance Unit	:	Meters / Kilometers
Display Size	:	6.6 inches (diagonally)
Display of Results	:	<ul style="list-style-type: none"> - Fiber signature of viewing - Attenuation between two selected points - Distance between two selected points - Loss due to connector / connectors in the section - Loss due to splice / splices in the section - Average loss / Km & total loss in the fiber reflection of each events & its location total return loss - A break in fibers & location of break - End of fiber & length of fiber
Optical Connector	:	Universal
Interface	:	RS – 232 C and USB
Printer	:	External
Storage	:	
1. Internal Memory	:	500 traces
2. Drives	:	3.5 inch Floppy Disk and USB Drive
Power Supply	:	
		<ul style="list-style-type: none"> a) Six hours from internal battery b) Charging facility c) Indication of low battery d) Nominal 230 V AC



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