# FTB-7400E-Metro/CWDM 0TDR

# METRO/CORE AND CWDM NETWORK FIBER CHARACTERIZATION





High-resolution OTDR covering longer metro distances and ITU-based CWDM networks

### **KEY FEATURES**

Industry-leading linearity of  $\pm$  0.03 dB/dB

Up to 256 000 sampling points

Event dead zone of 0.8 m and attenuation dead zone of 4 m

Low-water-peak fiber testing at 1383 nm

Dynamic range of up to 42 dB for long-haul testing

 $\label{thm:composition} \mbox{Tests through CWDM-based multiplexers and demultiplexers at ITU-recommended wavelengths}$ 

#### **APPLICATIONS**

Metro/core network testing

CWDM network testing

## PLATFORM COMPATIBILITY



Platform FTB-500



Compact Platform







All specifications valid at 23 °C ± 2 °C with an FC/PC connector, unless otherwise specified.

TECHNICAL SPECIFICATIONS			
Model <sup>a</sup>	FTB-7400E-XXXX	FTB-7400E-CWS	FTB-7400E-CWCL
Wavelengths (nm) <sup>b</sup>	1310 ± 20/1383 ± 1/1550 ± 20/1625 ± 10	$1470 \pm 3/1490 \pm 3/1510 \pm 3/1530 \pm 3$	$1550 \pm 3/1570 \pm 3/1590 \pm 3/1610 \pm 3$
Dynamic range at 20 $\mu s$ (dB) $^{c}$	42/40/41/41	41/41/ 41/41	41/41/ 40/40
Event dead zone (m) d	0.8	0.8	0.8
Attenuation dead zone (m) d	4/4/4.5/4.5	4/4.5/4.5	4/4.5/4.5
Distance range (km)	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260, 400	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260, 400	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260, 400
Pulse width (ns)	5, 10, 30, 100, 275, 1000, 2500, 10 000, 20 000	5, 10, 30, 100, 275, 1000, 2500, 10 000, 20 000	5, 10, 30, 100, 275, 1000, 2500, 10 000, 20 000
Linearity (dB/dB) <sup>b</sup>	± 0.03	± 0.03	± 0.03
Loss threshold (dB)	0.01	0.01	0.01
Loss resolution (dB)	0.001	0.001	0.001
Sampling resolution (m)	0.04 to 5	0.04 to 5	0.04 to 5
Sampling points	Up to 256 000	Up to 256 000	Up to 256 000
Distance uncertainty (m) <sup>e</sup>	$\pm$ (0.75 + 0.001 % x distance + sampling resolution)	$\pm$ (0.75 + 0.001 % x distance + sampling resolution)	$\pm~(0.75~+~0.001~\%~x$ distance + sampling resolution)
Measurement time	User-defined (5 sec. minimum to 60 min. maximum)	User-defined (5 sec. minimum to 60 min. maximum)	User-defined (5 sec. minimum to 60 min. maximum)
Typical real-time refresh (Hz)	4	4	4
Stable source output power (dBm) <sup>f</sup>	-4.5 (7400E-0023B)		
Visual fault locator (optional) b	Laser, 650 nm $\pm$ 10 nm CW, $P_{out}$ in 62.5/125 $\mu m$ : 1.5 dBm (1.4 mW)		

#### Notes

- $a. \ \ \text{For complete details on all available configurations, refer to the Ordering Information section.}$
- b. Typical.
- c. Typical dynamic range with a three-minute averaging at  ${\sf SNR}=1$ .
- d. Typical dead zone of singlemode modules for reflectance below -45 dB, using a 5 ns pulse.
- e. Does not include uncertainty due to fiber index.
- f. Typical output power value at 1550 nm.

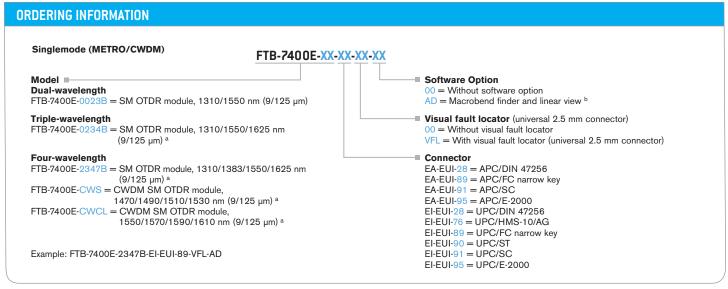
# **LASER SAFETY**

21 CFR 1040.10 AND IEC 60825-1:2007 CLASS 1M WITHOUT VFL OPTION CLASS 3R WITH VFL OPTION









#### Note

- a. VFL always included.
- b. This software option is compatible only on FTB-200 platform.

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