

# 7400D-NS-431

NETWORK TESTING



The FTB-7400D-NS-431 four-wavelength model: first-class features for singlemode OTDR testing

- Four wavelengths and optional visual fault locator (VFL), for top flexibility and cost-effectiveness
- 1310, 1383, 1550 and 1625 nm wavelengths with respective dynamic ranges of 43, 41, 41 and 41 dB
- Shortest dead zones in the industry: event dead zone of 1.5 m, and attenuation dead zone of 5 m



**SPECIFICATIONS<sup>1</sup>**

All specifications below apply to the FTB-7400D-NS-431 four-wavelength singlemode (SM) model.

| Model            | Wavelength (nm)                           | Dynamic range <sup>2</sup> (dB) | Event dead zone <sup>3</sup> (m) | Attenuation dead zone <sup>3</sup> (m) |
|------------------|---|---------------------------------|----------------------------------|--|
| FTB-7300D-NS-431 | 1310 ± 20/1383 ± 2<br>1550 ± 20/1625 ± 10 | 43/41/41/41                     | 1.5/1.5/1.5/1.5                  | 5/5/5/5                                |

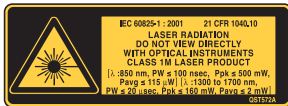
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|---|--|
| Distance range (km)                           | Singlemode: 1.3, 2.5, 5, 10, 20, 40, 80, 160, 260  |
| Pulse width (ns)                              | Singlemode: 5, 10, 30, 100, 275, 1000, 2500, 10 000, 20 000  |
| Linearity (dB/dB)                             | ± 0.03   |
| Loss threshold (dB)                           | 0.01   |
| Loss resolution (dB)                          | 0.001  |
| Sampling resolution (m)                       | Multimode: 0.04 to 2.5<br>Singlemode: 0.04 to 5  |
| Sampling points                               | Up to 128 000  |
| Distance uncertainty <sup>4</sup> (m)         | ± (0.75 + 0.0025 % x distance)   |
| Measurement time                              | User-defined (60 min maximum)  |
| Real-time refresh (s)                         | Guaranteed: ≤ 0.4  |
| Stable source output power <sup>5</sup> (dBm) | -4.5 (1550 nm)   |
| Visual fault locator (optional)               | Laser, 650 nm ± 10 nm<br>CW, P <sub>out</sub> maximum: ≤ 5 mW (into free space)<br>CW, typical P <sub>out</sub> in 62.5/125 µm: 3 dBm (2 mW) |

**Notes**

- All specifications valid at 23 °C ± 2 °C (73.4 °F ± 3.6 °F) with an FC/PC connector, unless otherwise specified.
- Typical dynamic range with longest pulse for a 180-second averaging at SNR = 1. Excluding the attenuation factor.
- Typical dead zone for singlemode reflectance -35 dB, using a 5 ns pulse.
- Does not include uncertainty due to fiber index and sampling resolution.
- Typical output power is given at 1550 nm for singlemode output.

**LASER SAFETY**



21 CFR 1040.10 AND IEC 60825-1:1993+A2:2001

CLASS 1M WITHOUT VFL OPTION  
CLASS 3R WITH VFL OPTION

**ORDERING INFORMATION**

**FTB-7400D-NS-431-XX-XX**

|   |  |  |
|---|--|--|
| <p><b>Model</b><br/>FTB-7300D-NS-431 = SM four-wavelength OTDR module, 1310/1383 nm and 1550/1625 nm (9/125 µm)</p> | <p><b>Connector</b><br/>EA-EUI-28 = APC/DIN 47256<br/>EA-EUI-89 = APC/FC narrow key<br/>EA-EUI-91 = APC/SC<br/>EA-EUI-95 = APC/E-2000<br/>EI-EUI-28 = UPC/DIN 47256<br/>EI-EUI-76 = UPC/HMS-10/AG<br/>EI-EUI-89 = UPC/FC narrow key<br/>EI-EUI-90 = UPC/ST<br/>EI-EUI-91 = UPC/SC<br/>EI-EUI-95 = UPC/E-2000</p> | <p><b>Visual fault locator</b><br/>00 = Without visual fault locator<br/>VFL = With visual fault locator (universal 2.5 mm connector)</p> <p>Example: FTB-7400D-NS-431-EA-EUI-95-VFL</p> |
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|                   |   |                                    |                          |                         |
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