



OFI-200

NOYES® **OFI-200 Optical Fiber Identifier**

NOYES Optical Fiber Identifiers are rugged, hand-held, and easy-to-use fiber optic test instruments designed to detect optical signals transmitted through a single-mode fiber without disrupting traffic. During installation, maintenance, rerouting or restoration, it is often necessary to isolate a specific fiber. By simply clamping an Optical Fiber Identifier onto a gently-bent fiber, the unit will indicate if there is [No Signal], [Tone], or [Traffic] and identify signal direction.

The OFI-200 model is equipped with a unique two-position head design that can be configured to work with 250 µm, 900 µm, ribbon or jacketed fiber in seconds, without tools or adjustments. When testing coated fibers, the slim design of the OFI-200 allows easier access on a splice tray where the amount of work space is limited. The clamping trigger is ergonomically designed to fit the natural motion of the operator’s hand.

A high-impact molded plastic case makes the OFI-200 suitable for use outside plant or in the central office.

The OFI-200 is battery operated with a battery indication feature and performs thousands of tests before battery replacement is necessary.

Features

- Rugged, hand-held, lightweight
- Accepts 250 µm, 900 µm coated fiber, 3 mm jacketed fiber cable and ribbon fiber
- No head swapping or adjustments
- Identifies light carrying fiber and indicates direction of traffic
- Low insertion loss, traffic remains uninterrupted
- Indicates Tone signal visually and audibly
- 2 kHz Tone detection
- Low battery indication

Applications

- Live fiber identification - used during installation, maintenance, rerouting or restoration to positively identify fibers prior to cutting and splicing
- Tone detection

Ordering Information

| INCLUDES | AFL NO. |
|----------------------------|----------|
| Users guide and carry case | OFI-200D |

NOYES®
OFI-200 Optical Fiber Identifier

Specifications

| DETECTABLE SIGNAL RANGE | | | |
|---|---|------------------------------|----------|
| FIBER TYPE ^a | PARAMETER | TEST CONDITIONS ^b | OFI-200D |
| 250 µm coated fiber (SMF-28 with 250 µm CPC6 coating) | Minimum level detected, average power | 1310 nm, CW or Traffic | -40 dBm |
| | | 1310 nm, Tone | -43 dBm |
| | Insertion loss (typical/max) | 1550 nm, CW or Traffic | -45 dBm |
| | | 1550 nm, Tone | -50 dBm |
| 3 mm jacketed fiber (SMF-28 with 250 µm CPC6 coating and 3 mm, yellow jacket) | Minimum level detected, average power | 1310 nm | 0.6 dB |
| | | 1550 nm | 2.5 dB |
| | Insertion loss (typical) | 1310 nm, CW or Traffic | -30 dBm |
| | | 1310 nm, Tone | -32 dBm |
| | | 1550 nm, CW or Traffic | -33 dBm |
| | | 1550 nm, Tone | -37 dBm |
| | | 1310 nm | 0.8 dB |
| | | 1550 nm | 2.5 dB |
| OPTICAL SPECIFICATIONS ^c | | | |
| MODEL | OFI-200D | | |
| Detector Type | InGaAs | | |
| Wavelength Range | 800 - 1700 nm | | |
| Calibrated Size of Fiber and Wavelength | N/A | | |
| Fiber Stress | <100 kPSI max | | |
| Fiber Size | 250 µm, 900 µm, ribbon, 2 mm or 3 mm and jacketed fiber | | |
| Tone Detection | 2000 ±100 Hz | | |
| GENERAL SPECIFICATIONS | | | |
| Display Type | N/A | | |
| Power | 1 9-Volt Alkaline | | |
| Battery Life | >10,000 operations typical | | |
| Operation Temperature | 0°C to 50°C 90 % RH (Non-condensing) | | |
| Storage Temperature | -30°C to +60°C 90 % RH (Non-condensing) | | |
| Dimensions (H x W x D) | 22 x 3.8 x 2.8 cm (8.5 x 1.5 x 1.1 in) | | |
| Weight | 210 g (7.5 oz) | | |

Notes:

- a. 250 µm coated fiber parameters are specified with OFI plunger in the "250/900/RIB" position.
 2mm/ 3mm jacketed fiber parameters are specified with OFI plunger in the "2 mm/3 mm" position.
- b. CW is a light signal that is not modulated.
 Traffic is a light signal modulated by a random data sequence.
 Tone is a light signal modulated into a nominal 50% duty cycle square wave.
- c. Unless noted otherwise, all specifications are typical. Actual results can vary by several dB depending on fiber type, coating material, jacket color, jacket hardness, and other factors.
 All specifications stated above are as measured at 25°C.



NOYES International Sales and Service Contact Information

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