

# Optical Fibre Identifier



Optical Fibre Identifiers allow fibre technicians and operators to quickly detect traffic and measure signals on singlemode fibre optic links without disconnection.

This Fibre Identifier offers the ability to check for signal transmission without potentially interrupting live links in addition to simplifying re-routing, maintenance, checking continuity and ensure correct link labeling.

The non-damaging macrobending technology utilised prevents fibre damage, traffic disruption & potential eye damage from live links, while allowing efficient, accurate and reliable data acquisition.

## Applications

- Live link identification
- Maintenance and fibre continuity testing
- Optical network tagging

## Features & Benefits

- Efficient display and testing for signal presence
- Indicates signal transmission orientation for quick transceiver identification
- Suitable for 0.25-3mm fibre buffers with the universal head
- Can be optioned with a built in VFL for additional testing applications
- Built in optical power meter on select models limits number of testing apparatus required
- Simple AA battery power with long life and battery level indication
- 12 month warranty and 36 month calibration interval for peace of mind



## Technical Specifications

| Part number                   | TB-AFI 430   | TB-AFI 430-V01 | TB-AFI 430-V10 | TB-AFI 430T  | TB-AFI 430C  |
|-------------------------------|--|----------------|----------------|--------------|--------------|
| Wavelength range <sup>1</sup> | 800 ~ 1700 nm  |                |                |              |              |
| Recognized signal type        | CW, 2kHz, 1kHz, 270Hz ±10%   |                |                |              |              |
| Detector type                 | InGaAs   |                |                |              |              |
| Fibre type                    | 0.9, 0.25, 2.0, 3.0 mm buffered fibre  |                |                |              |              |
| Sensitivity                   | +10 ~ -50dBm   |                |                |              |              |
| Accuracy <sup>4</sup>         | +10dB to -30 dBm (Continuous Wave) <sup>2</sup> / +10dB to -25 dBm (Modulated Signal) <sup>3</sup> |                |                |              |              |
| LED indicator                 | Signal direction; signal frequency (2kHz/1kHz/270Hz); low battery                                  |                |                |              |              |
| Visual fault locator          | N/A  | 1 mW           | 10 mW          | N/A          | N/A          |
| Optical power meter           | N/A  | N/A            | N/A            | +6 ~ -70 dBm | +6 ~ -50 dBm |
| OPM / VFL connector           | N/A  | 2.5mm          | 2.5mm          | 2.5mm        | 2.5mm        |

<sup>1</sup> At 20±3 °C, indoor, 1550nm wavelength, 0.9mm fibre, with white coating, 270Hz, error < 5%

<sup>2</sup> On 0.9mm fibre, performance on other fibre will be impacted

<sup>3</sup> At 270Hz, performance at 1KHz, 2KHz will be impacted

<sup>4</sup> At 1550nm, 1310nm performance will be impacted

## General Specifications

|                       |  |
|-----------------------|--|
| Size (WxHxD)          | 45 mm x 230 mm x 45 mm                           |
| Weight (approx)       | 200 grams  |
| Storage temperature   | -20 ~ 60 °C                                      |
| Operating temperature | -20 ~ 50 °C                                      |
| Relative humidity     | 0 ~ 90%  |
| Power supply          | 2 x AA batteries                                 |
| Standard accessories  | User manual, calibration certificate & carry bag |

Active | Passive | Test Equipment | Tooling | Cable | Fibre Management

For further information:  
[www.fibreoptic.com.au](http://www.fibreoptic.com.au)  
 +61 3 9757 3000