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M80000370

Installation document Fiber identifier, 31R, Fujikura



Description

Handheld fiber identifier. The FID-31R determines whether light is running over a single-mode fiber without interrupting the connection: the fiber is slightly bent in the plunger and the leaking light is measured. The device recognizes a tone signal (270 Hz, 1 kHz, 2 kHz), traffic light (CW) and ONU signals, and shows the estimated power in dBm and the direction of the signal. Suitable for 0.25 mm fiber, ribbon fiber up to 12 fibers and fiber cord from 1.1 to 3 mm.

Brand

Fujikura

Identifier mode screen

Part	Function
Battery indicator	Shows the battery charge level.
On/off button	Hold for a few seconds to switch off the identifier.
TONE	Measurement result of the tone signal, with frequency and optical power (dBm).
TRAFFIC	Measurement result of the data traffic, with optical power (dBm).
ONU	Measurement result of the ONU light, with optical power (dBm).
Direction arrow	Direction in which the signal runs.
MENU	To the menu.
ZERO	Zero setting.



1. Open the battery compartment of the fiber identifier and insert the batteries according to the indicated polarity (+ and -). Then close the battery compartment.

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2. Before use, check that the optical detector is clean. With a dirty detector, the identifier cannot detect the leaking light from the bent fiber. If necessary, clean the detector with a cotton swab with alcohol.



3. Pull the trigger without clamping a fiber.



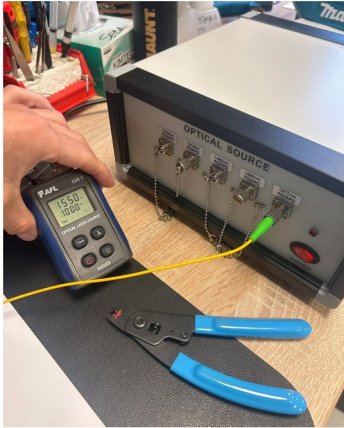
4. With the trigger pulled, tap ZERO on the screen. Do not release the trigger during zero setting.



5. After zero setting, check that all LEDs light up red.



6. Tap MENU and then Identifier Setup and check the measuring mode. If you know which tone signal is used, select that signal (270Hz, 1kHz or 2kHz) instead of Auto. This prevents incorrect detection.



7. Make sure there is a tone signal or light source on the fiber so that it can be identified. In the image, an optical source was used for this in the test room.



8. Clamp the fiber in the identifier by pulling the trigger and hold the fiber. Read the measurement result on the screen (see the examples below).



9. Tone signal detected: the background at TONE turns green, with the frequency of the signal (e.g. 1kHz or 2kHz). The arrow indicates the direction of the signal.



10. Data traffic (traffic light) detected: the background at TRAFFIC turns green. The arrow indicates the direction of the signal.



11. Note: external light, such as sunlight, UV light or lamp light, interferes with the identifier. The measurement result is then unreliable and both direction arrows may light up at the same time. Therefore measure without bright external light on the fiber wherever possible.



12. Hold the on/off icon for a few seconds to switch off the fiber identifier.