



Datasheet



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FID-30R / FID-31R

NEW

One-Shot, Detects All



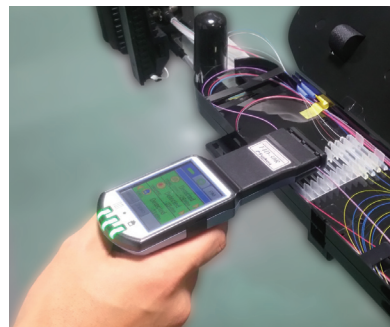
Optical Fiber Identifier

FID-30R / FID-31R

with Optical Power Meter

Standard Model

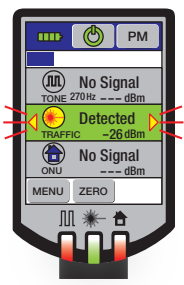
- World's highest signal detection sensitivity
- ONU signal detecting function
- Trigger lock / Robust Body design
- 2.4" color touch screen with backlight
- Adjustable settings
Result retaining / Buzzer Volume /
Backlight brightness / Auto dimming / Auto power OFF



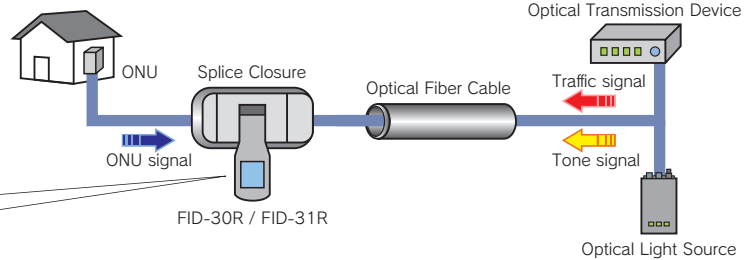
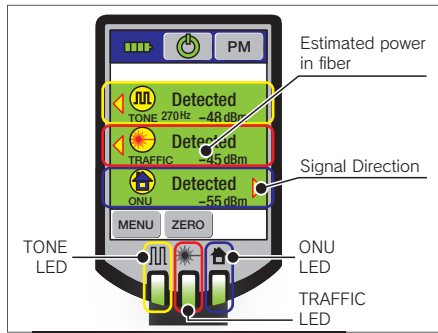
Operation Style

 **Fujikura**

FID-30R / FID-31R Optical Fiber Identifier



Detecting external light



APPLICATION & OPTICAL SPECIFICATION

Fiber application	Detecting all signals individually automatically						Insertion loss (dB)			Sensitivity (dBm) ^{*2}		
	Traffic (CW)	270 Hz	1 kHz	2 kHz	ONU signal ^{*1}	Signal direction	1310 nm	1550 nm	1650 nm	1310 nm	1550 nm	1650 nm
Single fiber 0.25 mm (R30)	✓	✓	✓	✓	✓	✓	0.2	1.0	2.5	-58 (-53 / -64)	-67 (-62 / -73)	-67 (-62 / -73)
Single fiber 0.25 mm (R15)	✓	✓	✓	✓	✓	✓	0.1	0.3	1.0	-44 (-39 / -50)	-57 (-52 / -63)	-57 (-52 / -63)
Single fiber 0.5 mm	✓	✓	✓	✓	✓	✓	0.2	1.0	2.5	-58 (-53 / -64)	-67 (-62 / -73)	-67 (-62 / -73)
Single fiber 0.9 mm	✓	✓	✓	✓	✓	✓	0.3	1.5	2.5	-28 (-23 / -34)	-33 (-28 / -39)	-38 (-33 / -44)
Fiber ribbon up to 12 fibers	✓	✓	✓	✓	✓	✓	0.3	1.0	2.5	-44 (-39 / -50)	-57 (-52 / -63)	-57 (-52 / -63)
Fiber cord 1.1 to 1.5 mm	✓	✓	✓	✓	✓	✓	0.3	1.0	2.5	-43 (-37 / -53)	-55 (-50 / -61)	-55 (-50 / -61)
Fiber cord 1.7 to 2.0 mm	✓	✓	✓	✓	✓	✓	0.5	2.0	3.0	-22 (-17 / -28)	-27 (-22 / -33)	-27 (-22 / -33)
Fiber cord 3.0 mm	✓	✓	✓	✓	✓	✓	1.0	3.0	3.0	-20 (-15 / -25)	-23 (-18 / -28)	-23 (-18 / -28)

NOTE : Insertion loss and Sensitivity varies due to coating material / color, etc.

ONU Detector Operating range	Wavelength range	ONU Detector Operating range
G(E) -PON upper stream signal	900 - 1700 nm	-7.5 ~ +9.0 dBm
G(E) -PON down stream signal		-25.5 ~ -6.2 dBm
VCAST down stream signal		-12.0 ~ +3.3 dBm
B-PON upper stream		-5.5 ~ +4.0 dBm
B-PON down stream		-20.6 ~ -11.7 dBm

SPECIFICATIONS

Applicable fiber	Fiber type	Singlemode fiber
	Sheath / Count	0.25 mm coating, Ribbon fiber up to 12-fiber, or Fiber cord : 1.1 mm, 1.5 mm, 1.7 mm, 2.0 mm, or 3.0 mm
Optical characteristics	Wavelength range	900 to 1700 nm
	Detectable light signals	Traffic signal (CW), Light signal with modulated tones at 270 Hz, 1 kHz, or 2 kHz (square wave 50 ± 10 % duty cycle)
Shock Resistance		76 cm (30 inch) drop ^{*3}
Operating / Storage conditions		-10 to +50 °C, 0 to 95 % RH / -20 to +60 °C, 0 to 95 % RH
Power supply / Battery Life		1.2 to 1.5 V DC with two AA batteries / Approximately 8 hours by alkaline batteries at room temperature
Dimensions and weight		50 (W) × 115 (H) × 212 (D) mm, 230 g including battery
Power meter (FID-30R only)	Wavelength response	1310 nm, 1490 nm, 1550 nm
	Detectable light signals	Traffic signal (CW), Light signal with modulated tones at 270 Hz, 1 kHz, or 2 kHz (square wave 50 ± 10 % duty cycle)
	Detector Sensitivity	+10 to -60 dBm at modulated tone / +10 to -40 dBm at CW light (traffic signal)
	Accuracy	Within ± 0.3 dB at room temperature

^{*1} require optimization for use by authorized distributor.

^{*2} Normal (Fast / Fine) mode typical data.

^{*3} Carried out in Fujikura labs in Japan. The test do not guarantee that the product will not be damaged under this condition.

STANDARD PACKAGE

Optical fiber identifier	Plunger	Carrying case	Instruction manual	Quick reference guide	Power meter Connector head
FID-30R	PL-06	FID-CASE-02	IM-FID30R	QR-30R/31R-E	OCH-02-UC (Ø2.5 Universal type)
FID-31R	PL-06	FID-CASE-02	IM-FID30R	QR-30R/31R-E	-

NOTE : FID-30R / 31R standard package doesn't include batteries.

OPTIONAL ITEMS

Description	Model No.	Use for
Connector head	OCH-02-SC	FID-30R, SC connector
	OCH-02-FC	FID-30R, FC connector
	OCH-02-ST	FID-30R, ST connector
	OCH-02-LC	FID-30R, LC connector

STANDARD PACKAGE (FID-30R)



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Specifications and descriptions are subject to change without prior notice.

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