

High-Quality Mini 4-in-1 Optical Multimeter · OPM -50 to +26 dBm + Built-in VFL up to 5 km + RJ45 LAN Tester + LED

Fiber Optics / Fiber Testing & Splicing Equipment

Compact 4-in-1 optical multimeter with -50 to +26 dBm OPM, integrated VFL with an advertised range of up to 5 km, RJ45 wire sequence tester and auxiliary LED light. InGaAs detector, ten calibrated wavelengths and measurement storage.



MULTÍMETRO ÓPTICO 4 EN 1
 OPM · VFL · RJ45 · Luz LED

KG-FT-OMT-4IN1-D0550B

Functions

OPM / VFL / RJ45 tester / LED light

Optical power range

-50 to +26 dBm

OPM spectral range

800-1700 nm

Key features

- Four functions in one compact device: OPM, VFL, RJ45 testing and LED light.
- OPM measurement from -50 to +26 dBm with an InGaAs detector and stated uncertainty of $\pm 5\%$.
- Ten calibrated wavelengths between 850 and 1650 nm.
- Wavelength recognition, storage and identification of CW, 270 Hz, 330 Hz, 1 kHz and 2 kHz signals.
- 650 ± 30 nm VFL with continuous or pulsed output at 1 Hz and 2 Hz.
- RJ45 wire sequence and continuity testing up to 300 m, with a detachable remote module.
- Type-C interface and automatic shutdown after 10, 30 or 60 minutes.
- Dimensions of 122 x 73 x 28 mm and approximate weight of 170 g.

Technical specifications

Parameter	Specification
Functions	OPM / VFL / RJ45 tester / LED light
Optical power range	-50 to +26 dBm

Technical specifications

Parameter	Specification
OPM spectral range	800-1700 nm
Detector	InGaAs
OPM connector	Universal
OPM uncertainty	±5 %
Calibrated wavelengths	850, 980, 1270, 1300, 1310, 1490, 1550, 1577, 1625 and 1650 nm
Linear resolution	0.1%
Logarithmic resolution	0.01 dBm
OPM identified frequencies	CW, 270 Hz, 330 Hz, 1 kHz and 2 kHz
Measurement storage	Compatible
Wavelength recognition	Compatible
Integrated VFL	Wavelength of 650 ±30 nm
Advertised VFL range	Up to 5 km, depending on fiber conditions
VFL modes	CW / 1 Hz / 2 Hz
VFL connector	Universal
Available VFL power levels	2 / 10 / 30 / 50 mW, depending on configuration
Standard RJ45 test	Wire sequence and continuity via remote module
RJ45 test range	Up to 300 m
Optional RJ45 function	Cable tracing, depending on configuration
Illumination	Auxiliary LED light
Standard power supply	3 AAA batteries
Optional power supply	3.7 V / 700 mAh lithium battery
Interface	USB Type-C
Nominal OPM runtime	≥120 h, depending on configuration and conditions of use
Automatic shutdown	10 / 30 / 60 minutes
Operating temperature	-10 to +50 °C
Storage temperature	-40 to +70 °C

Technical specifications

Parameter	Specification
Relative humidity	0-95%, non-condensing
Dimensions	122 x 73 x 28 mm
Weight	Approximately 170 g
Warranty	5 years

Applications

FTTH installation

Power measurement and optical link verification.

Fiber maintenance

Visual fault location using VFL.

LAN Cabling

RJ45 continuity and wire sequence testing up to 300 m.

Field work

Measurement storage and auxiliary LED lighting.

Packaging & contents

1 KG-FT-OMT-4IN1-D0550B optical multimeter
Optical adapters according to configuration
Charging cable
Case and manual

Warranty

KONGIA 5-year warranty.

Declared compliance

RoHS · ISO 9001 · REACH · CE Compliant