



CONTRACTOR KIT

6-Wavelength Optical Power Meter

Model CK-OPM | Configurable 2–6 Wavelength | SC/APC or SC/UPC Connector



Available in black, blue or orange housing

OVERVIEW

The Contractor Kit 6-Wavelength Optical Power Meter is a compact, rugged handheld instrument for testing and maintaining fibre optic networks, widely used across 10G-EPON, XGPON, XGSPON and RF overlay networks. It measures across 1270nm, 1310nm, 1490nm, 1550nm, 1577nm and 1610nm, giving engineers a single-instrument view of PON up/downstream signal power on live fibre. A bright 3.2" colour LCD, configurable Pass/Fail thresholds and up to 20 hours of battery life make it suited to installation, activation, maintenance and fault-finding on site.

KEY FEATURES

- Tests up to 6 wavelengths simultaneously: 1270 / 1310 / 1490 / 1550 / 1577 / 1610nm
- Measures 1310 / 1270 / 1610nm burst-mode uplink signals
- 10 sets of user-configurable thresholds with on-screen Pass/Fail indication; stores up to 1,000 records
- Manual threshold setting, data upload and wavelength calibration
- Integrated Visual Fault Locator (VFL)
- Self-calibration function
- Automatic shutdown and automatic backlight control
- Large-capacity lithium battery with low-voltage auto power-off
- HD screen, clear to read in outdoor sunlight
- Available with SC/APC or SC/UPC connector, and in 2, 3, 4, 5 or 6-wavelength configurations



Front / display



SC connector ports

MODEL & CONFIGURATION OPTIONS

Wavelength configuration

Model Code	Wavelengths Tested	Description
CK-OPM-2	1490 / 1577nm	2-wavelength — core downstream PON channels
CK-OPM-3	1310 / 1490 / 1550nm	3-wavelength — standard GPON/EPON up & downstream
CK-OPM-4	1270 / 1310 / 1490 / 1577nm	4-wavelength — GPON/EPON + XGS-PON downstream
CK-OPM-5	1270 / 1310 / 1490 / 1550 / 1577nm	5-wavelength — extended PON up & downstream coverage
CK-OPM-6	1270 / 1310 / 1490 / 1550 / 1577 / 1610nm	6-wavelength — full PON + RF overlay, all channels simultaneous

Connector type

Connector Code	Connector Type	Notes
-APC	SC/APC	8° angled polish — for PON, CATV and high-return-loss applications
-UPC	SC/UPC	Flat polish — for general single-mode fibre testing

Ordering example: CK-OPM-6-APC = 6-wavelength unit, SC/APC connector.

OPTICAL SPECIFICATIONS

Parameter	1310 (Up)	1490 (Down)	1550 (Down)	1270 (Up)	1577 (Down)	1610 (Up)
Spectral Passband (nm)	1290–1330	1470–1505	1535–1570	1260–1280	1577 ±3	1595–1650
Range (dBm)	-40 to +10	-45 to +10	-45 to +10	-40 to +10	-45 to +10	-40 to +10
Isolation @ 1310nm (dB)	—	>40	>40	>40	>40	>40
Isolation @ 1490nm (dB)	>40	—	>40	>40	>40	>40
Isolation @ 1550nm (dB)	>40	>40	—	>40	>40	>35
Isolation @ 1270nm (dB)	>40	>40	>40	—	>40	>40
Isolation @ 1577nm (dB)	>40	>40	>40	>40	—	>40
Isolation @ 1610nm (dB)	>40	>40	>40	>40	>40	—



GENERAL SPECIFICATIONS

Uncertainty	±0.5 dB
Polarization Loss	≤0.25 dB
Linearity	±0.1 dB
Insertion Loss	<1.5 dB
Display Resolution	0.01 dB
Measurement Units	dBm / μ W
Display	3.2" true-colour LCD, 320 × 240
Battery	4.2V 2400mAh rechargeable, approx. 20 hours working time
Operating Temperature	0°C to 60°C
Storage Temperature	−25°C to 70°C
Dimensions	155 × 85 × 40 mm
Weight	300 g (unit only)

KIT CONTENTS

- CK-OPM power meter unit
- USB charging cable
- Rugged carry case with shoulder strap
- Quick-start / user manual
- Retail packaging box



Carry case, shoulder strap, meter and USB charging cable

Packing size: approx. 21 × 12.3 × 6.8 cm

Gross weight (packed): approx. 522 g

ORDERING INFORMATION

Base Model: CK-OPM

Wavelength Options: 2 / 3 / 4 / 5 / 6 wavelength (see table above)

Connector Options: SC/APC or SC/UPC

Specifications and imagery sourced from manufacturer test data. Specifications subject to change without notice. © Contractor Kit.