

TESTING & INSTALLATION TOOLS

Optical Power Meter

Model **PSK-OPM-001** · Pair with a stable light source for direct insertion-loss testing.

Handheld InGaAs power meter reading -70 to +10 dBm across all transmission windows from 850 to 1625 nm. dBm, dB and microwatt display modes, reference storage and a universal 2.5 mm port make it the everyday certification and troubleshooting tool of fiber crews.

Overview

The optical power meter is the fundamental instrument of fiber work: it answers, in one number, whether light of the right strength arrives where it should. An InGaAs photodetector behind an interchangeable FC/SC 2.5 mm universal port measures absolute power from +10 dBm down to -70 dBm, calibrated at the six wavelengths that matter in access and transport networks: 850, 1300, 1310, 1490, 1550 and 1625 nm.

Used with a stable light source at the far end, the meter becomes a link-loss test set: store the source level as reference, switch to dB mode, and every subsequent reading is insertion loss directly - no arithmetic in the field. The backlit LCD reads in dBm, dB or microwatts; auto-power-off stretches a pair of AA cells beyond 200 hours; and the rubber-armoured pocket housing shrugs off van-and-ladder duty.

In FTTH activation the meter verifies received power at the ONT - typically -8 to -27 dBm in GPON - before a subscriber is declared live; in construction it certifies splitter and splice budgets against design; in maintenance it localises degradation before an OTDR is unpacked. It pairs naturally with PROSKY patch cords and the fusion splicer kit as the base test layer of an installation crew.

Key features

- InGaAs detector with a -70 to +10 dBm measurement range
- Six calibrated wavelengths: 850 / 1300 / 1310 / 1490 / 1550 / 1625 nm
- dBm, dB (relative) and microwatt display modes with reference store
- Universal 2.5 mm port with FC and SC adapters included
- Typical accuracy of +/- 0.35 dB with 0.01 dB resolution
- Backlit LCD, auto-power-off, 200 h min on two AA cells
- Rubber-armoured pocket housing, 230 g with batteries

Applications

Link certification · FTTH activation · Troubleshooting · Splice-loss verification · FTTH · Enterprise · Metro

Technical specifications

All values are typical for this product class.

Measurement	
Detector	InGaAs, 1 mm dia
Power range	-70 to +10 dBm
Calibrated wavelengths	850 / 1300 / 1310 / 1490 / 1550 / 1625 nm
Accuracy	+/- 0.35 dB (+/- 5 %), typical
Resolution	0.01 dB
Display units	dBm, dB relative, microwatts

Interfaces	
Optical port	Universal 2.5 mm; FC and SC adapters included
Adapter options	LC 1.25 mm adapter available
Fiber types	Single-mode and multimode
Reference memory	Per-wavelength reference store

Operation	
Display	Backlit LCD
Power source	2 x AA cells
Battery life	200 h min (backlight off)
Auto power-off	10 min, defeatable
Low-battery indication	Yes

Physical & environment	
Dimensions	175 x 80 x 33 mm
Weight	230 g with batteries
Operating temperature	-10 to +50 deg C
Storage temperature	-25 to +70 deg C
Relative humidity	95 % max, non-condensing

Standards alignment

- Designed to align with IEC 61315 (calibration of fibre-optic power meters)
- EMC design aligned with EN 61326-1 for measurement instruments
- Materials selected to align with RoHS Directive 2011/65/EU

Packaging

Typical export packaging: meter with adapters, batteries and manual in a zip work pouch, one pouch per printed box; 20 units per export carton (approx. 480 x 380 x 300 mm, 8 kg gross).

Ordering & support: request the certified PROSKY datasheet, project pricing and delivery terms via proskytele.com.