



KI 7600C SERIES

OPTICAL POWER METER
WITH VISUAL FAULT LOCATOR OPTION

The KI 7600C series Optical Power Meter is used for testing fiber optic communications systems.

Traceable 1% accuracy, intuitive use and rugged reliability combine to achieve superior measurement confidence.

Detector & calibration options cover a wide range of power levels, connector styles, fiber types and CWDM wavelengths from +27 to -70 dBm.

OPTICAL COMMUNICATIONS TEST APPLICATIONS

- ✓ System power testing
- ✓ Attenuation testing
- ✓ Fiber identification
- ✓ Fault Finding & Continuity Testing

FEATURES

- ✓ Reliable, rugged & field proven
- ✓ External power & data interfaces
- ✓ Over 25 calibration wavelengths, including CWDM
- ✓ Flexible real-time PC reporting software
- ✓ 360 hr battery life
- ✓ Large user memory
- ✓ Display backlight
- ✓ Optional easy to use visible fault finder
- ✓ Autotest compatibility with other instruments
- ✓ 3 year calibration cycle
- ✓ 3 ~ 7 year warranty
- ✓ Interchangeable connectors
- ✓ Simple to use
- ✓ Test Tone Detection
- ✓ Max / Min recording



ONE WAY AUTOTEST RX

3 YEAR
STANDARD
WARRANTY





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The KI 7600C Optical Power Meter measures absolute/relative light levels and test tones in fiber optic systems.

Autotest provides automatic multi λ (wavelength) loss testing with an Autotest light source, for fast, easy, and confident testing. A variety of matching LED & laser sources is available, including zero warm up and 4 λ CWDM sources.

The meter displays mW, μ W, nW, dB, dBm to 0.01 dB resolution, with no range changing delays. A separate reference for each λ is stored and displayed.

The tight Total Uncertainty specification covers all power levels, temperatures, connectors and fibers, without warm up or user dark current offset.

Interchangeable connectors are dust and drop protected. SC, FC, ST adaptors are supplied, with others available including small form factor styles. Metal free adaptors avoid contamination of connectors in high power systems.

POWER METER SPECIFICATIONS

Detector Type	Response λ nm	Damage level dBm	Calibration λ nm	Power Range dBm	Autotest sensitivity dBm	Mid range linearity ¹ dB	Calibration Accuracy ² %	Polarization Sensitivity dB	Total Uncertainty ³ dB
InGaAs	600 ~ 1700	+15	780, 820, 850, 980, 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650	+5 to -60 +5 to -70	-45 -50	0.02	1 % (0.06 dB)	< 0.005	0.3
H3B (InGaAs)	800 ~ 1700	+30 ⁴	820, 850, 980, 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650	+27 to -40 +27 to -50	-25 -30	0.02	1 % (0.06 dB)	< 0.005	0.35
H5 (InGaAs)	800 ~ 1700	+25	820, 850, 980, 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650	+15 to -50 +15 to -60	-35 -40	0.02	1 % (0.06 dB)	< 0.005	0.3
						typical	typical	typical	max

Note 1: Mid range linearity excludes top 3 dB & bottom 10 dB of range.

Note 2: Calibration condition: non coherent light, -35±5 dBm, 23±1°C, ±1 nm, 10±3 nm FWHM, PC ceramic connector, 100 μ m fiber.

Note 3: Includes contributions due to: varying optical connector types, calibration uncertainty, full temperature, dynamic range and fiber type up to 200 μ m core diameter.

Note 4: H3B can sustain the damage level for 2 minutes

VISIBLE LASER SPECIFICATIONS

Output Power	λ	λ width	Modulation
-2±1 dBm	635 nm	3 nm	2, 270,1k, 2k Hz,CW

GENERAL SPECIFICATIONS

Battery life	360 hrs laser off / 190 hrs Laser on
Size	190 x 130 x 70 mm, 7.5 x 5.1 x 2.8"
Weight	500 gm, 1.1 lb. Shipping 1.5 Kg, 3.3 lb
Temperature	-15 to 55°C (Operating) / -25 to 70°C (Storage)
Memory	1900 dual λ tests
Hidden keypad	For setting advanced functions
Case	Polycarbonate, 1 metre drop tested
PC interface	USB Type B
Power	2 alkaline C cells (7.6 A/Hr) External DC with 2.5mm +ve pin or via USB port. Selectable auto-off, low battery indicator, backlit display
Tone detection	150 - 9999 Hz 1%
Max / min	Recording feature for stability testing

INTERCHANGEABLE CONNECTOR OPTIONS

This instrument is supplied with ceramic optical interchangeable connector adaptors. The power meter works with both PC and APC connectors. The visible laser connector ferrule type is fixed and customer specified as either PC or APC. Green is associated with APC. You can order any number of connector adaptors. Order two of each style for KI 7601A instruments.

OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS

Description	P/N	Description	P/N
E2000/LSH, green	OPT060G	MU	OPT080
E2000/LSH	OPT060	D4	OPT055
LSA / DIN47256	OPT071	2.5mm universal	OPT081
LC / F3000	OPT072	SMA 905/906	OPT082

AUTHORIZED DEALER

Kingfisher InGaAs detectors have wider wavelength response range from 600 ~ 1700. It provides good response for all common wavelengths.

The visible laser option provides low skill, low cost fault finding and continuity testing.

Flexible KITS™ PC software is a complete Win XP compatible acquisition & reporting solution. Based on Excel, one mouse click puts live data directly into an customer's report with pass/fail assessment. Reports can be easily customized for any terminology, language or format. KITS™ also supports memory download, label printing and enterprise level data management.

Special instrument versions are available with a large area or λ selective detector.

ORDERING INFORMATION

Instruments	P/N
InGaAs Power Meter	KI 7600C-InGaAs
InGaAs Power Meter, visible laser PC	KI 7601C-InGaAs
InGaAs Power Meter, visible laser APC	KI 7601C-InGaAs-APC
H3B Power Meter	KI 7600C-H3B
H3B Power Meter, visible laser PC	KI 7601C-H3B
H3B Power Meter, visible laser APC	KI 7601C-H3B-APC
H5 Power Meter	KI 7600C-H5
H5 Power Meter, visible laser PC	KI 7601C-H5
H5 Power Meter, visible laser APC	KI 7601C-H5-APC

STANDARD ACCESSORIES

Description	Quantity	
	KI 7600	KI 7601
SC metal-free interchangeable connector adaptor	1	2
FC metal-free interchangeable connector adaptor	1	2
ST metal-free interchangeable connector adaptor	1	2
Operation manual		1
C cell batteries & AA-to-C battery size converter		2
NATA (ILAC) traceable calibration certificates		1
Carry Pouch, Carry strap & Leather protective holster		1
KITS™ Recording/Reporting software & USB A/B cable		1

OPTIONAL ACCESSORIES

Description	P/N
Option, Carry case for 2 instruments	OPT153
Option, Carry Case incl Cletop, Cleaning Sticks & Microscope	OPT154
Option, KI7000 Series Power Pack IEC 100-240V 2.5 mm Plug	OPT103B

Australian and international patents. Technical data is subject to change without notice as part of our program of continuous improvements. The visible laser is a Class 2 Laser product compliant with IEC60825-1 and 21CFR1040.10



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