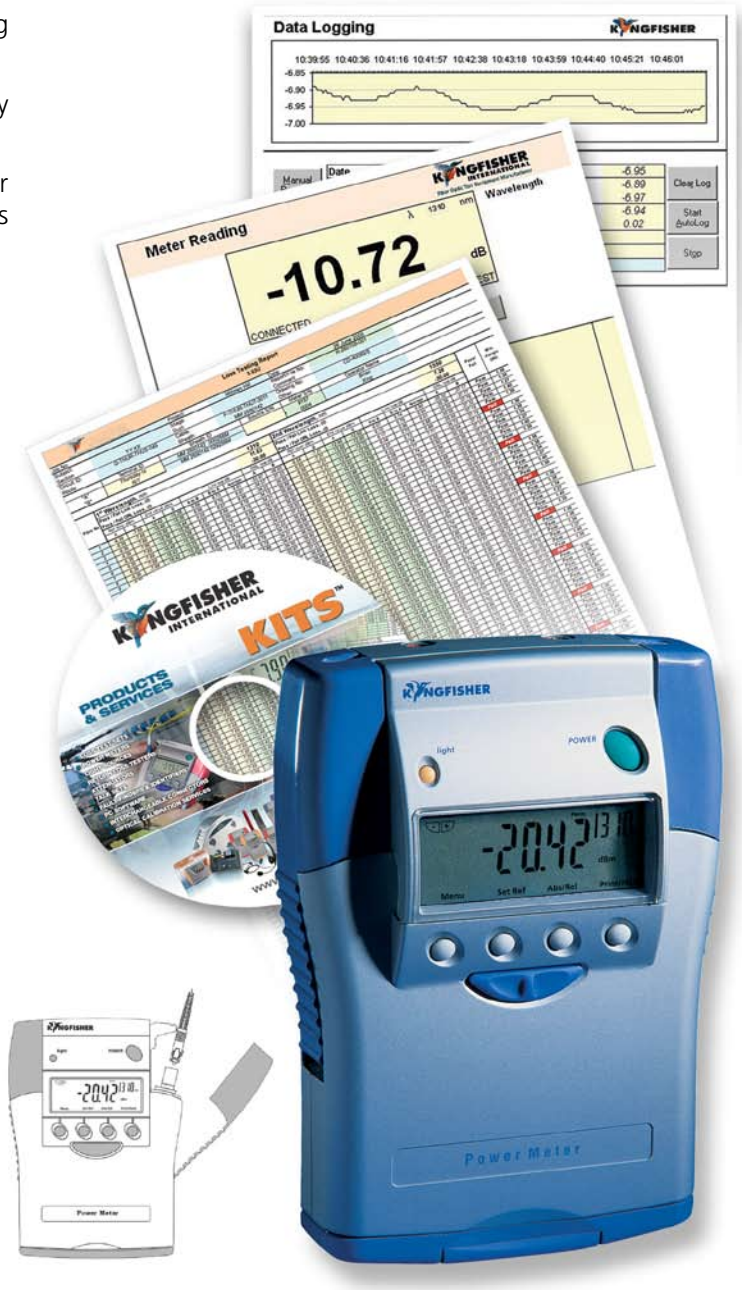
KI7600A *SERIES* OPTICAL POWER METER

WITH VISUAL FAULT LOCATOR OPTION

The KI 7600A 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 23 CWDM calibration wavelengths
- ✓ 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

ONE WAY AUTOTEST *RX*

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KINGFISHER INTERNATIONAL

ISO 9001 TRACEABLE CALIBRATION CE 3 ~ 7 YEAR WARRANTY

FTTx TELCO / CATV LAN / WAN DEFENCE EDUCATION AUTOMOTIVE

KI7600A SERIES OPTICAL POWER METER

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The KI 7600 Optical Power Meter measures absolute and 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, µW, 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.

Ge detectors are ideal for 650 ~ 1490 nm, and measure to 1550 nm. InGaAs detectors are ideal for 980 ~ 1650 nm, and measure to 850 nm. H3B detectors are ideal for 1270 ~ 1625 nm.

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 a 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.

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
Ge	600 ~ 1650	+15	*650, 660, 780,* 820, 850, 980,1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610,1625	*+10 to -65* +10 to -70	*-45* -50	0.04	1 % (0.06 dB)	< 0.005	0.5
InGaAs	800 ~ 1700	+15	*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	*-40* -50	0.02	1 % (0.06 dB)	< 0.005	0.3
H3B (InGaAs)	800 ~ 1700	+30[4]	1300, 1310, 1550, 1270, 1290, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1570, 1590, 1610, 1625	+27 to -50	-30	0.02	1 % (0.06 dB)	< 0.005	0.35
					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, 100µm fiber.
Note 3: Includes contributions due to: varying optical connector types, calibration uncertainty, full temperature, dynamic range and fiber type up to 200 µm 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
RS232	3.5 mm jack connector, default baud 9.6 K
Power	2 alkaline C cells (7.6 A/Hr) or external 9V DC with 2.5mm +ve pin. Selectable auto-off, low battery indicator, backlit display
Tone detection	150 - 9999 Hz 1%
Max / min	Recording feature for stability testing

INTERCHANGEABLE CONNECTOR OPTIONS

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

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 KI7601A instruments.

ORDERING INFORMATION

Description	P/N
Ge Power Meter	KI 7600A-Ge
Ge Power meter, visible laser PC	KI 7601A-Ge
InGaAs Power Meter	KI 7600A-InGaAs
InGaAs Power Meter, visible laser PC	KI 7601A-InGaAs
InGaAs Power Meter, visible laser APC	KI 7601A-InGaAs-APC
H3 Power Meter	KI 7600A-H3B
H3 Power Meter, visible laser PC	KI 7601A-H3B
H3 Power Meter, visible laser APC	KI 7601A-H3B-APC

STANDARD ACCESSORIES

	Quantity	
Description	KI7600	KI7601
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 & RS232 cable	1	

OPTIONAL ACCESSORIES

Description	P/N
Carry case for 2 instruments	OPT153
Power pack, 90-240V IEC	OPT103B
USB-RS232 converter	OPT188

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V20050616