



Acterna optical test kits

Pocket-sized Optical OMK-5, OMK-6, OMK-7
High performance OMK-14C, OMK-15C, OMK-18C

All the Acterna OMK optical test kits include one power meter and one light source as standard. This combination is ideal for power and loss management. The OMK-15C has in addition, a variable optical attenuator. Each kit is packaged in its own robust field carrying case complete with all necessary adapters, cables and accessories.

OMK-5, OMK-6 and OMK-7 are handy, pocket-sized instruments optimized for absolute power and loss measurements.

OMK-14C, OMK-15C and OMK-18C are compact high performance instruments for rapid verification, installation, maintenance and repair in fiber optic networks.

Simple, pocket-sized measurement

Three-button operation and a bright, clear display make the pocket-sized OMK-5, OMK-6 and OMK-7 very easy to use. The reference level for the attenuation measurement is made to IEC-874-1 (method 6) and can be saved with a single keystroke.

The possibility of measurement errors is eliminated because the power meter automatically detects the wavelength being transmitted by the light source. As a result, dual wavelength measurements can be made quickly and easily, using the saved reference levels.

Features

- Dedicated solutions for all applications in verification, installation, maintenance and surveillance of fiber optic networks
- Easy report generation with Fiber ASSISTANT software and high performance test kits
- Simple reliable operation
- Rugged, compact and lightweight
- 3 year re-calibration period

High performance measurement

High performance OMK-14C, OMK-15C and OMK-18C feature a wide dynamic range making them suitable for use in many different applications. The OMK-18C is dedicated to high power applications such as CATV systems, optical amplifiers and high power lasers.

OMK-15C includes a variable optical attenuator for bit error rate tests, determination of system margin and receiver sensitivity while verifying or installing a fiber optic network.

Precision calibration to traceable national standards ensures high accuracy measurement in user selectable units for the high performance power meters.

Two unique Universal Push Pull (UPP) adapters provide reliable, reproducible connection to all common 1.25 and 2.5 mm connectors, ensuring that the user always has the correct connection in the field.

Absolute power level can be stored with a single keystroke, making it easy to take relative measurement loss tests.

The AutoWavelength detection function detects the actual wavelength being used and switches automatically to the appropriate wavelength range. TwinTest performs two wavelength loss measurements automatically.

High performance OLPs can store up to 1000 sets of test measurements. Data can be downloaded to a printer for hard copy records, or to a PC for long-term storage and further analysis using Acterna's FiberASSISTANT PC software.

FiberASSISTANT

The powerful FiberASSISTANT PC software tool come free with every high performance OMK (also available free of charge from www.Acterna.com), speeds up the process of taking, recording and analysing measurements made using the OMK-14C, -15C or -18C high performance power meters. Parameter settings, data logging and data storage functions are provided. Documentation can be sorted and filed by cable, and a pass/fail assessment made according to a user-set loss budget.

Automatic identification of individual fibers

Both pocket-sized and high performance OMKs can be used to detect the modulation frequency of the fiber to be measured, for identification purposes.

To speed up this process, high performance OMKs feature an audible signal identifying the fiber as one of four standard frequencies. The signal sounds as soon as the fiber is brought near the input.

Rugged field instrumentation and optimized power supply

All OMKs feature low power consumption for long battery life.

Power-down is automatic after 20 minutes, and remaining battery capacity is displayed whenever the on/off key is pressed. Operating time is further maximized by the use of low power components. Pocket size OMKs can be operated with dry or rechargeable AA batteries.

High performance OMKs can be operated with AC, dry or rechargeable AA batteries which can be changed in the field very easily. The units are supplied in a robust housing, with splash-proof foil keypad and protectors for the optical connectors, to ensure reliable operation even in harsh field conditions.

The right bag or case for every application

All pocket sized OMKs come supplied with a robust case with enough space for accessories and test cables. The OMK-14C and OMK-18C come with a compact nylon bag which allows room for the necessary accessories and test cables. The OMK-15C comes with a robust case with enough space for three instruments and test cables.

For the individual configuration of a customer specific OMK, Acterna offers separate bags and cases e.g. the MT-2 nylon bag together with the OLA-15B and an OLP-18C is the right combination for the commissioning of DWDM systems.

The very useful OVF-1 (visual fault locator) fits into every OMK case. The OVF-1 allows for the fast and easy identification of fibers as well as the detection of fiber faults.

Overview of instruments and applications

<i>Telecom</i>	<i>Multimedia</i>	<i>Enterprise networks</i>		<i>Name</i>	<i>Features</i>
<i>Local loop</i>	<i>CATV</i>	<i>WAN</i>	<i>LAN</i>		
<i>Transport</i>		<i>single mode</i>	<i>multi-mode</i>		
<i>Test kits</i>					
			•	OMK-5	OLS-5, OLP-5 multi-mode; TwinTest
•		•		OMK-6	OLS-6 + OLP-6 single mode
•	•			OMK-7	OLS-6 + OLP-8 (1310-1550nm)
•		•		OMK-14C	OLS-15 + OLP-15C single mode
•		•		OMK-15C	OLS-15 + OLP-15C single mode; TwinTest
					+OLA-15B
•	•			OMK-18C	OLS-15 + OLP-18C single mode

Acterna OMK-5, -6, -7 OLS-6, OLP-6, -8

Ordering information

Optical test kits

- Acterna OMK-5	ST	BN 2126/05
- Acterna OMK-6	FC/PC, FC/APC	BN 2126/06, /61
- Acterna OMK-6	SC/PC, SC/APC	BN 2126/62, /63
- Acterna OMK-7	FC/PC, FC/APC	BN 2126/07, /74
- Acterna OMK-7	SC/PC, SC/APC	BN 2126/75, /76

Accessories

- Cleaning kit for optical connectors	BN 2229/90.07
- Spare tape for cleaning kit	BN 2229/90.08
- Cleaning sticks (OLS-6)	BN 2256/90.05
- Dry batteries, Mignon (AA) type (2 required per instrument)	BN 2229/90.01
- NiCd cells, Mignon (AA) type (2 required per instrument)	BN 2229/90.02

Battery charger (for external charging)

- 230 V, European AC line plug	BN 2229/90.03
- 110 V, US AC line plug	BN 2229/90.09
- 230 V, UK AC line plug	BN 2229/90.19
- Belt bag, per instrument	BN 2256/90.01
- Transport case MK-5	BN 2126/90.01
(space for 2 pocket sized instruments, 2 cables, OVF-1)	
- Transport bag MT-32	BN 2126/32
(space for 3 pocket sized instruments, several cables, OVF-1, battery charger)	

Detailed information on adapters, cables and optical sleeves can be found in separate datasheet: "Acterna fiber optic test adapters and cables".

Delivery contents

Acterna OMK-5 optical test kit

- OLS-5	Optical high Source (LED) 850/1300nm and operating manual
- OLP-5	Optical Power Meter (-60 to +5 dBm)and operating manual
- K 3027	multi mode test cable (50/125 µm)
- Cleaning sticks and tissues	
- 4 batteries	Mignon AA 1.5 V
- 2 belt bags	
- MK-5	transport case with inlay space for OVF-1 (Visual Laser Source)

Acterna OMK-6 optical test kit

- OLS-6	Optical Laser Source 1310/1550 nm and operating manual
- OLP-6	Optical Level Meter (-65 to +10 dBm)and operating manual
- K 31xx	single mode test cable (9/125 µm)
- Cleaning sticks and tissues	
- 4 batteries	Mignon AA 1.5 V
- 2 belt pouches	
- MK-5	transport case with inlay space for OVF-1 (Visual Laser Source)

Acterna OMK-7 optical test kit

- OLS-6	Optical Laser Source 1310/1550 nm and operating manual
- OLP-8	Optical Level Meter (-50 to +23 dBm)and operating manual
- K 31xx	Single mode test cable (9/125 µm)
- Cleaning sticks and tissues	
- 4 batteries	mignon AA 1.5 V
- 2 belt bags	
- MK-5	transport case with inlay space for OVF-1 (Visual Laser Source)

Acterna OMK-14C, -15C, -18C, Acterna OLS-15, Acterna OLA-15B,
Acterna OLP-15C, -16C, -18C

Ordering information

- Optical test kits		
Acterna OMK-14C	/PC or /APC	BN 2126/12 or /13
Acterna OMK-15C	/PC or /APC	BN 2092/15 or /16
Acterna OMK-18C	/PC or /APC	BN 2126/84 or /85

FiberASSISTANT (free download available from www.acterna.com)

- PC documentation software

Accessories

- Optical connector cleaning kit	BN 2229/90.07
- Space tape for cleaning kit	BN 2229/90.08
- NiCd cells, Mignon (AA) type (2 required per instrument)	BN 2229/90.02
- Dry batteries, Mignon (AA) type (2 required per instrument)	BN 2229/90.01
- Battery charger (for external charging)	
230 V, European AC line plug	BN 2229/90.03
110 V, US AC line plug	BN 2229/90.09
230 V, UK AC line plug	BN 2229/90.19
- AC Adapter NT-20	
European version	BN 2238/90.02
UK version	BN 2238/90.03
US version	BN 2238/90.04
Australian version	BN 2238/90.05
Japanese version	BN 2229/90.06
- Neck strap	
BN 820/00.52	
ABK-30 storage box for optical accessories	BN 2126/30
Equipment case MK-1 (rigid shell case for 2 x OLV-1x plus accessories)	BN 2090/13
Equipment bag MT-2 (nylon bag for 2 x OLV-1x plus accessories)	BN 2126/01
Equipment bag MT-3 (nylon bag for 3 x OLV-1x plus accessories)	BN 2126/02
Equipment bag MT-22 (nylon bag for 1 x OLV-1x and 1 x OLV-x plus accessories)	BN 2126/22
Equipment bag MT-32 (nylon bag for 1 x OLV-1x and 2 x OLV-x plus accessories)	BN 2126/32
Equipment case MK-4 (rigid shell case for 3 x OLV-1x plus accessories)	BN 2092/12

Detailed information about test adapters, cables and fiber optic sleeves can be found in separate datasheet: "Acterna fiber optic test adapters and cables".

Delivery contents

Acterna optical test kit OMK-14C

- OLS-15	single port dual laser 1310/1550 nm including adapter
- OLP-15C	level meter (-70 to +20 dBm) including adapter
- NiCd cells	Mignon AA 1.2V, set of 4 (2 per instrument)
- NT-20	AC Adapter
- K 778	RS-232 cable, 9-way plug
- S 911	RS-232 adapter 25-way to 9-way
- Cleaning tape	for plug end surfaces
- MT-2	instrument bag with inlay space for OVF-1 (visual laser source)
- Space for 2 neckstraps	

Acterna optical test kit OMK-15C

- OLS-15	single port dual laser 1310/1550 nm incl. adapter
- OLA-15B	optical attenuator including 2 adapters
- OLP-15C	level meter (-70 to +20 dBm) including adapter
- NiCd cells	Mignon AA 1.2V, set of 6 (2 per instrument)
- NT-20	AC Adapter
- K 778	RS-232 cable, 9-way plug
- S 911	RS-232 adapter 25-way to 9-way
- Cleaning tape	for plug end surfaces
- MK-4	Rigid shell case with inlay space for OVF-1 (visual laser source)
- Space for 3 neck straps	

Acterna Optical Test Kit OMK-18C

- OLS-15	single port dual laser 1310/1550 nm incl. adapter
- OLP-18C	level meter (-60 to +26 dBm) including adapter
- NiCd cells	Mignon AA 1.2V, set of 4 (2 per instrument)
- NT-20	AC Adapter
- K 778	RS-232 cable, 9-way plug
- S 911	RS-232 adapter 25-way to 9-way
- Cleaning tape	for plug end surfaces
- MT-2	instrument bag with inlay space for OVF-1 (visual laser source)
- 2 neck straps	

Specifications: Acterna Optical Test Kits OMK-14C, -15C, -18C

	Acterna OMK-14C	Acterna OMK-15C	Acterna OMK-18C
Laser source	OLS-15	OLS-15	OLS-15
Level meter	OLP-15C	OLP-15C	OLP-18C
Attenuator	-----	OLA-15B	-----
Level measurement	-70 to +20 dBm	-70 to +20 dBm	-60 to +26 dBm
Dynamic range with OLS-15*	9/125 µm SM fiber	9/125 µm SM fiber	9/125 µm SM fiber
<i>CW (continuous wave)</i>			
1310 nm	63 dB (approximately, 160 km)	63 dB (approximately, 160 km)	53 dB (approximately, 130 km)
1550 nm	63 dB (approximately, 250 km)	63 dB (approximately, 250 km)	53 dB (approximately, 210 km)
<i>with Auto-λ</i>			
1310 nm	40 dB (approximately, 100 km)	40 dB (approximately, 100 km)	30 dB (approximately, 75 km)
1550 nm	40 dB (approximately, 160 km)	40 dB (approximately, 160 km)	30 dB (approximately, 120 km)
Dimensions (w x h x d)	approximately, 320 x 110 x 350 mm	approximately, 520 x 150 x 360mm	approximately, 320 x 110 x 350mm
Weight	approximately, 2.3 kg	approximately, 7.0 kg	approximately, 2.3 kg

Specifications: Acterna Optical Test Kits OMK-5, -6, -7

	Acterna OMK-5	Acterna OMK-6	Acterna OMK-7
Laser source/LED	OLS-5	OLS-6	OLS-6
Level meter	OLP-5	OLP-6	OLP-8
Level measurement	-60 to + 5 dBm	-65 to + 10 dBm	-50+23dBm
Dynamic range with OLS-6	50/125 micrometers	9/125 µm SM fiber	9/125 µm SM fiber
<i>CW (continuous wave)</i>			
850 nm	40 dB (approximately 20 km)		
1300nm	40 dB (approximately 50 km)		
1310 nm		58 dB (approximately 145 km)	43 dB (approximately 110 km)
1550 nm		58 dB (approximately 230 km)	43 dB (approximately 170 km)
<i>with Auto-λ</i>			
850 nm	25 dB (approximately 12 km)		
1300 nm	30 dB (approximately 40 km)		
1310 nm		40 dB (approximately 100 km)	25 dB (approximately 60 km)
1550 nm		40 dB (approximately 160 km)	25 dB (approximately 100 km)
Dimensions (w x h x d)	approximately 360 x 90 x 310 mm	approximately 360 x 90 x 310 mm	approximately 360 x 90 x 310 mm
Weight	approximately 1.9 kg	approximately 1.9 kg	approximately 1.9 kg

Worldwide Headquarters

20400 Observation Drive
Germantown, Maryland
20876-4023
USA

Acterna is present in more than 80 countries. To find your local sales office go to www.acterna.com

Regional Sales Headquarters

North America
20400 Observation Drive
Germantown, Maryland
20876-4023
USA

Toll Free: +1 866 228 3762
Tel: +1 301 353 1550
Fax: +1 301 444 8468

Latin America
Av. Eng. Luis Carlos Berrini
936/B° e 9° andares
04571-000 São Paulo
SP-Brasil
Tel: +55 11 5503 3800
Fax: +55 11 5505 1598

Asia Pacific
42 Clarendon Street
PO Box 141
South Melbourne
Victoria 3205
Australia
Tel: +61 3 9690 6700
Fax: +61 3 9690 6750

Western Europe
Arbachtalstraße 6
72800 Eningen u.A.
Germany
Tel: +49 7121 86 2222
Fax: +49 7121 86 1222

Eastern Europe,
Middle East & Africa
Elisabethstraße 36
PO Box 13
2500 Baden
Austria
Tel: +43 2252 85 521 0
Fax: +43 2252 80 727

1st Neopalimovskiy Per.
15/7 (4th floor)
RF 119121 Moscow
Russia
Tel: +7 095 248 2508
Fax: +7 095 248 4189

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