## Measurement solutions for single-mode fibers







when the instrument is switched off so that



• Simple

3-button

operation

Designed from start to finish with users in mind.

**Dual Laser Source WG OLS-6** WG OLS-6 1310/1550 nm WG OLS-6 780/1300 nm

- One FC/PC connector for each wavelength
- Connectors can be removed from the casing for cleaning
- Excellent short- and long-term stability thanks to level-stabilized laser source Reduces the need for time-consuming reference measurements
- · High output level for attenuation measurements over long distances (-7 dBm)

 Optimum protection of optical connectors with built-in cover

"Intelligent" laser beam Rakes life easier of the avoided in the land of the analysis of the land of th Weselfernent errors are avoider ingreshit gaster Ly durunidur Jererunn

Single-wavelength mode or dual-wavelength mode Single-wavelength mode · Automatic modulation Automatic modulation The comector

Actual size

• Ergonomic design

- All-round shock protection
- Robust and reliable





- High-contrast easy-to-read display
- For IEC 874-1 (method 6) attenuation measurements, the attenuation is shown directly in dB without further calculation after the reference measurement.
- Automatic display of battery capacity in % whenever the ON/OFF key is pressed.
- BAT icon displayed during measurement to indicate the need to replace the batteries.

### Different connectors? No problem!

WG OLP-6

- No more tiresome, time-consuming adapter changes
- Simple push-pull mechanism

SC

• All common 2.5 mm connectors can be used



# Long operating time (>130 h)

- Uses low-power components
- Automatic power down activated after approx. 20 minutes
- Uses two standard AA size (Mignon) 1.5 V batteries / NiCds - available worldwide

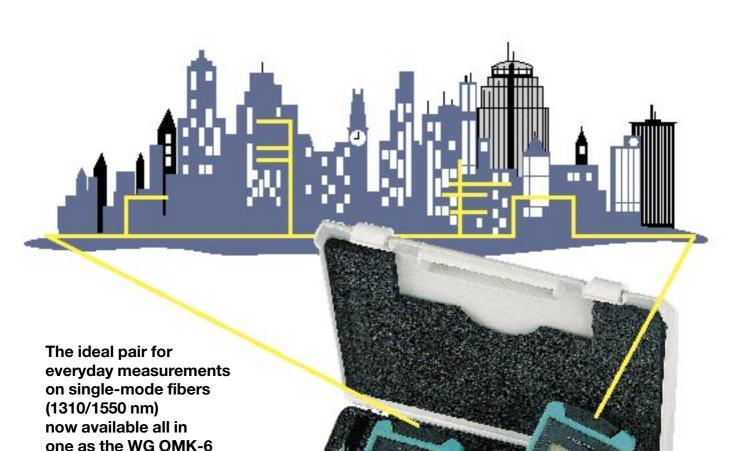
E2000

FC DIN

**Operating life** 

OLP-6

**Usual life** 



## **Belt pouch**

**Optical Test Kit** 

- The practical solution
- One with each instrument
- Always at hand



### WG OMK-6 Optical Test Kit:

- Optimized for attenuation measurements with a dynamic range of up to approx. 58 dB in CW mode, corresponding to
  - $\approx$  120 km fiber at 1310 nm
  - $\approx$  190 km fiber at 1550 nm
- The dynamic range in Auto-λ or Modulation mode is around 40 dB, corresponding to
  - $\approx$  90 km fiber at 1310 nm
  - $\approx$  130 km fiber at 1550 nm

	OLS-6: 1310/1550 nm		OLS-6: 780/1300 nm	
Optical source type	FP laser		FP laser	
Wavelength range	1310 nm typ. ±20 nm 1550 nm ±20 nm		780 nm $\pm$ 15 nm 1300 nm typ. $\pm$ 20 nm	
FWHM spectral width	<7 nm/ <7 nm		<7 nm/ <7 nm	
Output power (9/125 μm fiber) CW Modulated output level	Class 1 laser -7 dBm typ. ±1 dB typ10 dBm		Class 3A laser (780 nm) -7 dBm ± 1.5 dB typ10 dBm	
Modulation frequencies	270 Hz, 1 kHz, 2 kHz		270 Hz, 1 kHz, 2 kHz	
Output signal stability Short-term: 15 min, -10 to +55 °C Long-term: 8 h, -10 to +55 °C	±0.02 dB ±0.2 dB		±0.05 dB ±0.3 dB	
Modes: CW AUTO-λ FMOD DUAL	Unmodulated light Output signal includes $\lambda$ information for WG level meters Modulation for fiber identification Both wavelengths active			
Optical connector	2 outputs (1 for each wa	outputs (1 for each wavelength); $2 \times FC/PC$		
Power supply / operating time Dry batteries NiCd batteries	2 × Mignon (AA) 1.5 V/ty 2 × Mignon (AA) 1.2 V/ty		2 × Mignon (AA) 1.5 V/typ. 45 h	
Wavelength range       .780 to 1700 nm         Photodiode		Discharge protection Instrument powers down automatically after about 20 minutes to conserve battery power (function can be disabled)   Ambient temperature   Nominal range of use		
Results shown in		OMK-6 Optical Test Kit  OMK-6 contents:  1 × MK-5 Instrument Case complete with inlay 1 × OLS-6 Optical Laser Source, 1310/1550 nm 1 × OLP-6 Optical Power Level Meter 1 × Single-mode cable, FC/PC-FC/PC (9/125 μm), K 3112 4 × AA (Mignon) 1.5 V batteries Space is provided for OVF-1 (Optical Visible Fault Locator)		
or NiCd batteries		Dynamic range of Loss Test Kit:         CW mode       58 dB         Modulation or wavelength detection modes       40 dB         for 1310 to 1550 nm       40 dB         for 780 to 850 nm       35 dB         Dimensions (b×h×t) in mm       approx. 265 × 52 × 225		

Dimensions (b  $\times$  h  $\times$  t) in mm ..... approx. 265  $\times$  52  $\times$  225

Weight (including contents) ..... approx. 900 g

3) Level range at 1300 to 1550 nm: -50 to +10 dBm;

4) Together with OLS-5, OLS-6 and OLS-15 from series E onwards

at 780/850 nm: -45 to +10 dBm

### Three practical solutions to the problem of measuring the physical parameters of systems and components in optical networks

By combining individual instrument types into customized sets that fit into the MT-32 Instrument Bag, it is possible to always have the right instruments and appropriate accessories for every type of measurement ready to hand. These optimized test solutions mean that the only investment costs are those that are absolutely essential to solving the measurement problem.

The combination of the new pocket-size OLX-5/-6 family with the high-performance OLX-15/-16/-18 range opens up new dimensions in customized test solutions for laboratory and field use.

#### Example 1:

Economical "TWINtest solution" for level and loss measurements on multimode and single-mode fibers: Measurement time halved by simultaneous measurement at 850/1300 nm on MM or at 1310/1550 nm on SM fibers.

MT-32 Instrument Bag BN 2126/32 **OLS-5** LED Source 850/1300 nm BN 2255/01

for MM fibers; ST adapter OLS-15 Laser Source 1310/1550 nm BN 2255/02 for SM fibers: universal adapter

**OLP-6** Optical Power Level Meter BN 2256/02 (-65 to +10 dBm); Universal Push Pull Adapter

**OVF-1** Fault Locator for locating BN 2252/01 kinks and breaks in fibers

Cleaning tape BN 2229/90.07 2 single-mode cables, FC/PC - FC/PC (9/125 lm) K 3112 K 3027

2 multimode cables, ST-ST (50/125 lm) FC/FC coupler S 3101 ST/ST coupler S 3109

1 Charger Unit for external charging of NiCd batteries:

220 V, Euro-style a.c. line plug BN 2229/90.03 Example 2:

Economical "Quad-wavelength solution" for qualification of fiber optics cables by means of level and loss measurements in the optical windows of single-mode fibers

MT-32 Instrument Bag BN 2126/32 **OLS-6** Laser Source 1310/1550 nm BN 2255/02

for SM fibers; FC/PC adapter

**OLS-6** Laser Source 780/1300 nm BN 2255/03

for SM fibers; FC/PC adapter

**OLP-6** Optical Power Level Meter BN 2256/02

(-65 to +10 dBm)

BN 2252/01 **OVF-1** Fault Locator for locating kinks

and breaks in fibers

Cleaning tape BN 2229/90.07 2 single-mode cables, FC/PC - FC/PC (9/125 um) K 3112 FC/FC coupler S 3101

1 Charger Unit for external charging of NiCd batteries:

220 V, Euro-style a.c. line plug BN 2229/90.03

Example 3:

Economical "System installation solution" for measuring absolute level and receiver sensitivity in single-mode systems.

MT-32 Instrument Bag BN 2126/32 OLS-6 Laser Source 1310/1550 nm BN 2255/02

for SM fibers; FC/PC adapter

**OLP-6** Optical Power Level Meter BN 2256/02

(-65 to +10 dBm); Universal Push Pull adapter

**OLA-15** Optical Attenuator; BN 2239/01

Universal adapter

Cleaning tape BN 2229/90.07 2 single-mode cables, FC/PC - FC/PC (9/125 μm) K 3112

1 Charger Unit for external charging of NiCd batteries:

220 V, Euro-style a.c. line plug BN 2229/90.03

#### **Ordering information**

WG OLS-6 Optical Laser Source WG OLS-6		Accessories	
1310/1550 nm	BN 2255/02	Calibration report for OLS-6	BN 2255/90.03
1310/1550 nm (pack of 10)	BN 2255/20	Calibration report for OLP-6	BN 2256/90.02
780/1300 nm	BN 2255/03	NiCd battery AA (Mignon) size	BN 2229/90.02
		(2 required for each instrument)	
WG OLP-6 Optical Power Level Meter	BN 2256/02	Charger unit	
·		(for external charging of NiCd batteries)	
WG OMK-6 Optical Test Kit	BN 2126/06	230 V, Euro-style a.c. line plug	BN 2229/90.03
Comprising:		110 V, US-style a.c. line plug	BN 2229/90.09
1 x MK-5 Instrument Case complete with inlay		MK-5 Transport Case	BN 2126/90.01
1 × OLS-6 Optical Laser Source, 1310/1550 nm		(for holding 2 instruments)	
1 × OLP-6 Optical Power Level Meter 1 × Single-mode cable, FC/PC-FC/PC (9/125 μm), K 3112		WG MT-32 Transport Case	BN 2126/32
4 × AA (Mignon) 1.5 V batteries		(for holding 3 instruments)	
Space is provided for OVF-1 (Optical Visible Fault Locator)			
		Detailed information on adapters, cables and optical couplers is found in the separate data sheet	
WG OMK-6 Optical Test Kit (pack of 10) BN 2126/60		on "Optical test adapters and adapter cables".	

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