

LTK-400 Series Optical Sources, Meters and Kits Without Data Storage Capabilities

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features and benefits |

| | |
|---|-----------------------------------|
| High output power and calibrated wavelengths | Unparalleled performance |
| Rugged handheld design | Endure harsh testing environments |
| Product warranty and calibration interval | Reduced ownership cost |
| Packaged as test kits | Test "right out of the box" |

The Corning Cable Systems LTK-400 Series offers a complete, cost-effective solution for link-loss testing of both multimode and single-mode systems for those users who do not require data storage capabilities. Designed for testing and troubleshooting of local area networks and other multimode and single-mode optical fiber cable systems, the LTK offers unparalleled performance by combining a source that has one of the highest output powers in the industry with a meter that has 10 calibrated wavelengths from 830 nm to 1625 nm. The automatic wavelength detection mode allows the power meter to automatically detect/switch to the wavelength being transmitted by the source and has automatic offset/ruling under normal temperature and humidity conditions.

(continued)



LTK-400 Series Light Source and Power Meter
| Photo LAN784

To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc.

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LTK-400 Series Test Kit | Photo LAN786

Both the source and meter have field-interchangeable port adapters and can be powered by standard AA alkaline batteries or by the supplied AC power adapters. The rugged handheld design can withstand the harshest testing environments while the product warranty and recommended three-year calibration interval result in reduced ownership cost.

The LTK-400 Series meter and sources are sold individually or packaged as test kits. These test kits include everything needed to test "right out of the box" including the following:

- OS-400 series source and OM-410 meter
- SC and ST® Compatible source and meter adapters
- SC and ST Compatible jumpers
- SC and ST Compatible adapters
- 62.5 μm and 50 μm test mandrels
- Alkaline batteries and AC power supplies
- Cleaning supplies in a storage case
- Padded carrying case and user's manual

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LTK-400 Series Optical Sources, Meters and Kits Without Data Storage Capabilities

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specifications |

Power Meter¹

| | |
|---|---------------|
| Model Number | OM-410 |
| Power Meter Port | Ge |
| Power Range² | 10 to -60 dBm |
| Number of Calibrated Wavelengths³ | 10 |
| Power Uncertainty⁴ | ± 5% ± 1 nW |
| Resolution⁵ | 0.01 dB |
| Automatic Offset Nulling⁶ | Yes |
| Warmup Time⁷ | None |
| Display Units | dB/dBm/W |
| Automatic Wavelength Recognition⁸ | Yes |

¹Specifications are guaranteed at 23°C ± 1°C.

²In CW mode; sensitivity defined as 6 x RMS noise level.

³Wavelengths: 830 nm, 850 nm, 980 nm, 1300 nm, 1310 nm, 1450 nm, 1490 nm, 1550 nm, 1590 nm and 1625 nm.

⁴Traceable to NIST.

⁵From 10 dBm to -50 dBm.

⁶Power of > -40 dBm.

⁷For ± 0.05 dB and temperatures of > 18°C.

⁸At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm for power of > -50 dBm.

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specifications | (continued)

Power Meter¹ (continued)

| | |
|--|--|
| Model Number | OM-410 |
| Screen Refresh Rate | 3 Hz |
| Tone Detection | 270 Hz, 1 kHz, 2 kHz |
| Battery Life Typical | 300 hours |
| Warranty and Calibration Interval | 3 years |
| Size (H x W x D) | 18.5 x 10.0 x 5.5 cm (7.25 x 4 x 2.125 in) |
| Weight | 0.4 kg (0.9 lb) |
| Operating Temperature | -10° to +50°C (+14° to +122°F) |
| Storage Temperature | -40° to +70°C (-40° to +158°F) |
| Relative Humidity | 0% to 95% non-condensing |

¹Specifications are guaranteed at 23°C ± 1°C.

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LTK-400 Series Optical Sources, Meters and Kits Without Data Storage Capabilities

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specifications | (continued)

Optical Source¹

| Model Number | OM-403D OS-4MDS | OS-404XD OS-4MDS |
|-----------------------------------|--|--|
| Central Wavelengths | 850 ± 25 nm 1300 -10/+50 nm | 1310 ± 20 nm 1550 ± 20 nm |
| Spectral Width ² | 50 nm (850 nm) 135 nm (1300 nm) | ≤ 5 nm (1310 nm) ≤ 5 nm (1550 nm) |
| Output Power ³ | ≥ -20 dBm (850 nm) ≥ -20 dBm (1300 nm) | ≥ 1 dBm (1310 nm) ≥ 1 dBm (1550 nm) |
| Power Stability ⁴ | ± 0.10 dB | ± 0.10 dB |
| Battery Life ⁵ | 120 hours | 120 hours |
| Automatic Wavelength Recognition | Yes | Yes |
| Tone Detection | 270 Hz, 1 kHz, 2 kHz | 270 Hz, 1 kHz, 2 kHz |
| Warranty and Calibration Interval | 3 years | 3 years |
| Size (H x W x D) | 18.5 x 10.0 x 5.3 cm (7.25 x 4 x 2.125 in) | |
| Weight | 0.4 kg (0.9 lb) | |
| Operating Temperature | -40° to +50°C (+14° to +122°F) | |
| Storage Temperature | -40° to +70°C (-40° to +158°F) | |
| Relative Humidity | 0% to 95% non-condensing | |
| Safety | Class 1M Laser Product | |

¹Specifications are guaranteed at 23°C ± 1°C.

²RMS for lasers and -3 dB width for LEDs; typical values for LEDs.

³LED output power is specified with 62.5 μm fiber. 50 micron coupled power would be lower.

⁴After 15 minutes warm-up; expressed as ± half the difference between the maximum and minimum values during the 8-hour period.

⁵Typical autonomy in auto mode.

LTK-400 Series Optical Sources, Meters and Kits Without Data Storage Capabilities

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ordering information |

| Part Number | Description |
|--|---|
| Power Meter | |
| OM-410 | Optical Power Meter without data storage; (1) SC meter port adapter, (1) ST® Compatible meter port adapter, (1) AC adapter, (1) wrist strap, manual and AA alkaline batteries |
| Light Source | |
| OS-403D | Multimode Optical Source with 850/1300 nm LED; (1) SC source port adapter, (1) ST Compatible source port adapter, (1) AC adapter, (1) wrist strap, manual and AA alkaline batteries |
| OS-404XD | Single-Mode Optical Source with 1310/1550 nm Laser; (1) SC source port adapter, (1) ST Compatible source port adapter, (1) AC adapter, (1) wrist strap, manual and AA alkaline batteries |
| OS-4MDSD | Quad Optical Source with 850/1300 nm LED and 1310/1550 nm Laser; (2) SC source port adapter, (1) ST Compatible source port adapter, (1) AC adapter, (1) wrist strap, manual and AA alkaline batteries |
| Test Kits with Source and Meter | |
| LTK-400MD | Multimode Loss Test Kit including OS-403D source (850/1300 nm LED) and OM-410 meter (no data storage), AA batteries for both units, (2) AC power supplies, SC and ST Compatible jumpers and adapters for MM, manual, (1) SC source port adapter, (1) ST Compatible source port adapter, (1) SC meter port adapter, (1) ST Compatible meter port adapter, (2) wrist straps, plastic case of cleaning supplies and padded carrying case |
| LTK-400SD | Single-Mode Loss Test Kit including OS-404XD source (1310/1550 nm laser) and OM-410 meter (no data storage), AA batteries for both units, (2) AC power supplies, SC and ST Compatible jumpers and adapters for SM, manual, (1) SC source port adapter, (1) ST Compatible source port adapter, (1) SC meter port adapter, (1) ST Compatible meter port adapter, (2) wrist straps, plastic case of cleaning supplies and padded carrying case |
| LTK-4MDSD | Quad Multimode and Single-Mode Loss Test Kit including OS-4MDSD (850/1300 nm LED) and (1310/1550 nm laser) source and OM-410 meter (no data storage), AA batteries for both units, (2) AC power supplies, SC and ST Compatible jumpers and adapters for both MM and SM, manual, (2) SC source ports adapter, (1) ST Compatible source port adapter, (1) SC meter port adapter, (1) ST Compatible meter port adapter, (2) wrist straps, plastic case of cleaning supplies and padded carrying case |
| Accessories | |
| UI-SC | Universal Interface Source Connector Adapter, SC |
| UI-ST | Universal Interface Source Connector Adapter, ST® Compatible |
| UI-FC | Universal Interface Source Connector Adapter, FC |

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[ordering information](#) | (continued)

| Part Number | Description |
|--------------------|--|
| Accessories | |
| OA-SC | Power Meter Connector Adapter, SC |
| OA-ST | Power Meter Connector Adapter, ST Compatible |
| OA-FC | Power Meter Connector Adapter, FC |
| OA-LC | Power Meter Connector Adapter, LC |
| OA-MTRJ | Power Meter Connector Adapter, MT-RJ |
| PS-9-1 | AC Power Adapter for 400 Series source or meter |
| CASE-HH-400 | Hard-Shell Transit Case for (2) 400 Series instruments and accessories (17.25 x 11.25 x 7 in; 8 lb) |
| CASE-STD-400 | Padded Carrying Case for (2) 400 Series instruments and accessories |
| OTS-COMBOMAN | Set of Mandrels for 50 µm and 62.5 µm multimode fiber |
| TJK-0339-62-KIT | Test Jumper kit includes all the jumpers, adapters and meter port adapter needed to test 62.5 µm multimode fiber with LC connectors; comes with a storage case and assumes an SC port on the source |
| TJK-0258-SM-KIT | Test Jumper Kit includes all the jumpers, adapters and meter port adapter needed to test single-mode fiber with LC connectors; comes with a storage case and assumes an SC port on the source |
| TJK-9739-62-KIT | Test Jumper Kit includes all the jumpers, adapters and meter port adapter needed to test 62.5 µm multimode fiber with MT-RJ connectors; comes with a storage case and assumes an SC port on the source |
| TJK-9858-SM-KIT | Test Jumper Kit includes all the jumpers, adapters, and meter port adapter needed to test single-mode fiber with MT-RJ connectors; comes with a storage case and assumes an SC port on the source |

Note: Other test jumper kits (TJK) configurations are available. Please contact Corning Cable Systems Customer Service Representative for more information.

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notes |

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