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Find the *Corning OM-410* at our website: ***Click HERE***

OM-400 Series Optical Power Meter

A LANscape® Solutions Product

Corning
Cable Systems

Applications

- Installation, testing and troubleshooting of LAN, telco, CATV and FTTx networks

Description

The Corning Cable Systems OM-400 Series Optical Power Meter provides accurate, user-friendly and economical power throughput and attenuation testing capabilities for incoming inspections, maintenance, troubleshooting, and system verification. The OM-400 features an ergonomic design that is rugged enough to withstand the harshest testing environments. This meter can be coupled with a Corning Cable Systems optical light source to create an attenuation test set.

The OM-400 is a multifunctional optical power meter with 10 calibrated wavelengths and associated reference values. Calibrated wavelengths range from 830 nm to 1625 nm, making the OM-400 ideal for testing both single-mode and multimode fiber optic installations. Preferred testing wavelengths can be stored in a list of favorite wavelengths. Two power level ranges are also offered to meet a wide variety of applications.

The OM-400 Series Power Meter offers signal modulation detection settings for 270 Hz, 1 kHz, 2 kHz, CW (unmodulated) and Auto signals. A modulation detection setting of Auto allows the OM-400 to automatically detect the wavelength being transmitted by a compatible Corning Cable Systems source. Additionally, the OM-400 can be configured to receive a reference power level from a compatible source over a long distance, allowing a remote reference to be set without the source and meter being at the same location.

The OM-400 Series Power Meter includes a screw-on type connector adapter which allows the user to adjust the meter for the desired connector type under test in the field with no tools. A wide variety of industry-standard adapters is available.



OM-400 Series Optical Power Meter | LAN631

Features / Benefits

- Rugged and compact handheld meter
- Calibrated for 10 wavelengths from 830 nm to 1625 nm
- Two power level ranges available
- FTTx ready with wavelengths calibrated at 1310 nm, 1490 nm, and 1550 nm
- Field-interchangeable connector adapters
- Remote power level referencing with compatible sources
- Frequency modulation and automatic wavelength detection modes
- Automatic offset nulling under normal temperature and humidity conditions
- AC and battery operation with battery life of greater than 300 hours

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Specifications[1]

	OM-410	OM-420
Power Meter Port	Ge	GeX
Power Range (dBm)[2]	10 to -60	26 to -50
Range Displayed (dBm)	Down to -65	Down to -50
Number of Calibrated Wavelengths[3]	10	10
Power Uncertainty[4]	± 5% ± 1 nW	±5% ± 10 nW
Resolution (dB)	0.01[5]	0.01[6]
Automatic Offset Nulling[7]	Yes	Yes
Warmup Time[8] (s)	0	0
Display Units	dB/dBm/W	dB/dBm/W
Automatic Wavelength Recognition[9]	Yes	Yes
Screen Refresh Rate (Hz)	3	3
Tone Detection (Hz)	270, 1K, 2K	270, 1K, 2K
Battery Life Typical (hours)	> 300	> 300
Warranty (years)	1	1
Recommended Calibration Interval (years)	3	3
Size	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	

Notes:

[1] *Guaranteed unless otherwise specified. All specifications valid at 1550 nm and 23° C ±1°C, with an FC connector.*

[2] *In CW mode; sensitivity defined as 6 x rms noise level.*

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

[4] *Traceable to NIST; OM-420: up to 20 dBm.*

[5] *From 10 dBm to -50 dBm.*

[6] *From 26 dBm to -35 dBm.*

[7] *Power of > -40 dBm for OM-410 and > -25 dBm for OM-420.*

[8] *For ± 0.05 dB and temperatures of > 18° C.*

[9] *At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm; power of > -50 dBm for OM-410 and > -40 dBm (typical) for OM-420.*

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Ordering Information

Part Number	Description
OM-410-XX	Optical Power Meter with standard measurement range of 10 to -60 dBm; one connector adapter of choice, AC adapter, wrist strap and alkaline batteries included
OM-420-XX	Optical Power Meter with extended measurement range of 26 to -50 dBm; one connector adapter of choice, AC adapter, wrist strap and alkaline batteries included
Connector Code (XX)	*SC = SC, ST = ST® compatible, FC = FC, LC = LC, RJ = MT-RJ*

Accessories

Part Number	Description
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
OS-403D-XX	Source with 850/1300 nm LED
OS-404XD-YY	Source with 1310/1550 nm laser
OS-4MDSD-XX-YY	Source with 850/1300 nm LED and 1310/1550 nm laser
OS-407T-YY	Source with 1310/1490/1550 nm laser
OS-850V-52	850 nm VCSEL Source with fixed SC connector port
CASE-HH-400	Hard-Shell Transit Case for two 400 Series instruments
PS-9-1	AC Power Adapter for 120 VAC
TJK-XXXX-XX-STD	Test Jumper Kits available in a variety of configurations – Contact Customer Service for available options

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