

Optical Multi Tester

OMT Series

Power sensor, optical attenuator and optical switch Power sensor with wavelength monitoring function Flexible customization base on application needs



OMT-1110



Note: Units are not included

Slot type mainframe

2 units can be implemented to this mainframe based on your application needs. Automatic measurement system is easily built with other instruments by using GPIB and Ethernet remote control interface.

	OMT-1110	unit
Number of slots	2	
PC interface	GPIB, Ethernet	
Operating temperature	ture +5 ~ +35	
Storage temperature	-10 ~ +50	°C
Power supply	AC 100-240 (50 / 60 Hz)	V
Power consumption	100	VA
Dimension (W x H x D) 1	235 x 88 x 380	mm
Weight	4.8	kg
1. Protruding parts not included.		

The above specifications may change without prior notice.

Power sensor with wavelength monitor



Built-in wavelength monitor sensor head

This sensor head can measure optical power and wavelength at the same time.

The wavelength setting for the exact power measuring, will be done automatically, and it is very useful for reducing production takt time.

This unit also has an analog output connector (BNC) to meet various application needs.

			OMT-1360	unit
	Wavelength range		1000 ~ 1650	nm
	Power range		-70 ~ +20	dBm
Wavelength Power measurment measurement C C S S S Z 고 디 히 크 C 히 S	Uncertainty at reference condition (1260 ~ 1630 nm)		+/-3 %	
	Total uncertainty	(1260 ~ 1630 nm)	+/-5 % +/-50 pW	
	Polarization dependency		< +/-0.015	dB
	Linearity	(CW: -50 ~ +20 dBm)	< +/-0.02	dB
	Return loss		> 40	dB
	Noise level		< 50	pW
	Analog output		1 ch	
Wavelength measurment	Wavelength measuring range		1000 ~ 1650	nm
	Wavelength measuring power range		-40 ~ +20	dBm
	Wavelength wavele	ength displaying resolution	0.01	nm
	Uncertainty	(1000 ~ 1650 nm)	+/-1.0	nm
		(1260 ~1340, 1520 ~ 1630 nm)	typ. 0.1 (<+/-0.2)	nm
	Polarization depend	dency	< +/-0.1	nm
	Optical fiber		SMF	nm
	Optical connector		FC or SC or LC, SPC or APC	
	Dimension (W x H x D) ¹		85 x 65 x 120	mm
	Weight		0.9	kg

1. Protruding parts not included.

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Power sensor

ОМТ-133# - хх



Analog output for all channels Each of the power sensor has an analog output connector (SMB) on every channel. The output voltage corresponds to input optical power. This provides flexibility for various application needs.

		OMT-1330	OMT-1331	unit
Number of channel		1	2	
Wavelength range		1000	~ 1700	nm
Power range		-80 -	~ +10	dBm
Uncertainty at reference condition	(1260 ~ 1630 nm)	+/-:	3 %	
Total uncertainty	(1260 ~ 1630 nm)	+/-5 % +/-5 pW		
Polarization dependency		< +/-	0.01	dB
Linearity	(CW: -60 ~ +10 dBm)	< +/-	0.02	dB
Return loss		>	45	dB
Noise level		<	5	pW
Optical fiber		SMF, MMF (< NA0.275)		
Optical connector FC or SC or LC, SPC or APC				
Dimension $(W \times H \times D)^1$		32 x 83 x 335		mm
Weight		0.5	0.7	kg

1. Protruding parts not included.

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Optical attenuator

OMT-1410 - xx



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Maximum attenuation up to 60dB

	OMT-1410	unit
Wavelength range	1260 ~ 1630	nm
Insertion loss	Тур. 1.6	dB
Maximum attenuation setting	60	dB
Attenuation setting resolution	0.01	dB
Attenuation accuracy	typ. +/-0.5 (ATT setting: 0 ~ 30)	dB
(1310, 1550 +/-15 nm)	typ. +/-1.0 (ATT setting: 30 ~ 40)	dB
Attenuation repeatability	typ. +/-0.1 (ATT setting: 0 ~ 30)	dB
Return loss	> 45	dB
Polarization dependency	< +/-0.1 (ATT setting: 0 ~ 40)	dB
Maximum input power	+23	dBm
Shutter isolation	> 55	dB
Attenuation variable time (3 dB variable)	< 100	ms
Optical fiber	SMF	
Optical connector	FC or SC, SPC or APC	
Dimension $(W \times H \times D)^1$	32 x 83 x 335	mm
Weight	0.7	kg

1. Protruding parts not included.

The above specifications may change without prior notice.

Optical switch



	OMT-1511	OMT-1520	OMT-1530	OMT-1540	unit
Configuration	1 x 2	1 x 4	1 x 8	2 x 2	
Number of switch	2	1	1	1	
Wavelength	1310 / 1550			nm	
Insertion loss (typ.)	0.5 (> 1.0)	0.9 (< 1.2)	0.9 (< 1.5)	0.5 (< 1.0)	dB
Repeatability	< +/-0.01				dB
Crosstalk	< -55	55 <-60			dB
Return loss	> 45				dB
Polarization dependency		< +/-0.02			
Maximum input power	+23				dBm
Optical fiber	SMF				
Optical connector	FC or SC, SPC or APC				
Dimension (W x H x D) ¹	32 x 83 x 335	32 x 83 x 335	64 x 83 x 335	32 x 83 x 335	mm
Weight	0.6	0.7	1.0	0.6	kg

The above specifications may change without prior notice.

Low insertion loss realization

This optical switch has low insertion loss of less than 0.9dB (typ.). There are various types of switch configurations to suit various application needs.

Options

- Connector adapter for power sensor (FC , SC , LC)
- Rack mount kit (RMT-010)
- Blank panel (BKP-011)

Applications

Wide variety of measurement and evaluation for optical device and optical communication systemAuto-measurement system for production test

Optical experiment

Insertion loss measurement