Optical Multi Tester

OMT Series

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



Mainframe

OMT-1110



OMT-1360 - xx

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
2	
GPIB, Ethernet	
+5 ~ +35	°C
-10 ~ + 50	°C
AC 100-240 (50 / 60 Hz)	V
100	VA
235 x 88 x 380	mm
4.8	kg
	2 GPIB, Ethernet +5 ~ +35 -10 ~ +50 AC 100-240 (50 / 60 Hz) 100 235 x 88 x 380

^{1.} Protruding parts not included

Power sensor with wavelength monitor



OMT-1360

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

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

			OMT-1360	unit
Power measurement	Wavelength range		1000 ~ 1650	nm
	Power range		-70 ~ + 20	dBm
	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 wavelength 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	<u> </u>	0.9	kg

^{1.} Protruding parts not included.

The above specifications may change without prior notice

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Power sensor

OMT-133# - xx

Ordering Information #: Channel 1ch:0,2ch:1 xx : Connector adapter FC , SC , LC



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	
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 x H x D) ¹	32 x 83 x 335		mm	
Weight		0.5	0.7	kg
1 Protruding parts not included				

Optical attenuator

OMT-1410 - xx

Ordering Information
xx : Connector
FS : FC/SPC , SS : S0
FA : FC/APC , SA : S0 , SS:SC/SPC , SA:SC/APC



Maximum attenuation up to 60dB This optical attenuator covers the wavelength of 1260 ~ 1630nm. The maximum attenuation range is 60dB with setting resolution of 0.01dB. The maximum handling power is +23dBm. By combining power sensor unit and optical switch unit makes it possible to construct automated optical

measurement system.

	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 x H x D) ¹	32 x 83 x 335	mm
Weight	0.7	kg

^{1.} Protruding parts not included.

Optical switch

OMT-15## - xx

Ordering Information ## : 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 <-60			dB	
Return loss	> 45				dB
Polarization dependency	< +/-0.02				dB
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

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)

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Applications

- Wide variety of measurement and evaluation for optical device and optical communication system
- Auto-measurement system for production test
- Optical experiment
- Insertion loss measurement

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