

CWDM (8+1) Power Meter



The Appointech handheld CWDM (8+1) power meters have calibrated measurements at CWDM wavelengths, from 1470 to 1610nm MUXed in one fiber, and a second port for 1310nm. The operation is very user-friendly. After turn-on with the ON/OFF switch, the input CWDM wavelength to be measured can be selected by pressing the λ -key until the correct wavelength value is shown on the LCD display, together with the power value. When the $\nabla(\lambda s)$ key is pressed, all the eight channels with power values are displayed. Therefore, this unit can also be used as a CWDM wavelength identifier. The power unit is normally set in dBm. When the dB/dBm key is pressed for 3 seconds until dB is flashing on the LCD, the current input power level is taken as the new reference at 0 dB, and the following measurements will be in dB, with respect to the new reference. If all the channels have been set for reference measurements, then the total display will also be all in dB or dBm when the dB/dBm key is pressed. All the present reference power values are stored. When 1310nm is to be measured, the (1310nm)key is pressed to get the correct power value. Its relative measurement can be set the same way as described above. When in Auto-Off mode, as indicated by a power symbol with a cross on the LCD, the unit will be shut off after about 30 minutes on-time for battery life, in case not in use for a prolonged time. To turn it back on, press the ON/OFF switch again, and follow the same procedure as stated above. The auto-off feature can be disabled by pressing the Auto-Off key, as indicated by a power symbol without a cross on the LCD. When the battery power is too low to assume proper operation, an empty battery symbol is shown on the LCD display. The included rechargeable battery works with a power adaptor of a USB connector, which is also included. When in OFF-mode, the indicator LED will be on when charging starts, and off when charging has been completed. An on-site calibration switch is located inside the battery compartment. When the switch is moved to CAL, the unit can be calibrated on-site with respect to the customer's own standard power meter. The power of a stabilized light source of the wavelength to be calibrated is first measured with the standard power meter, then with the power meter to be calibrated. The (Set) key is pressed to initiate calibration, as indicated by the S-symbol. Then the power reading is changed by pressing the up \blacktriangle and down \blacktriangledown keys until the expected power value is shown on the LCD. The (set) key is pressed again to complete the current calibration. The tool symbol is back to indicate the new calibration factor has been stored. The same procedure is repeated for calibrating another wavelength. The calibration switch has to be moved back to "Normal" after all calibrations are finished.

Features

- Calibration on-site with customer's own standard power meter if needed
- Display single or eight measurements in dB or dBm
- Selection of relative/absolute power measurement
- Resolution 0.01dB; absolute accuracy ± 0.25 dB
- Small size, easy for field applications
- Light weight, about 0.2Kg

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- Auto power shut-off can be disabled
- Rechargeable battery, Battery-full and Battery-low indicator

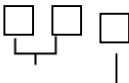
Applications

- Power measurements
- Fiber network tests
- Transmission loss measurement
- Calibration of optical receivers

Specifications

Detector Material	InGaAs
Calibration Wavelengths	CWDM wavelength, from 1470 to 1610nm +/- 3nm 1310nm +/- 50nm
Power Range	+3 to -60 dBm or +23 to -40 dBm
Polarization Dependence	< 0.1 dB
Absolute Accuracy	±0.25dB under calibrated conditions
Linearity	±0.05dB
Display	LCD displays power in selected unit, wavelength. Warning symbol for low battery
Calibration Data	Data stored in non-volatile memory
Functions	ON/OFF: power switch; Auto-Off: enable/disable switch λ-key: input wavelength selection dB/dBm-key: power unit selection, and new power reference set On-site calibration up-down keys Battery level indicator
Optical Connector Interface	FC or ST or SC or universal, adapter for other connector available
Environmental: Operation Temp, Humidity Storage Temp, Humidity	-15°C to +50°C, 0-95% RH (non-condensing) -35°C to +70°C, 0-95% RH (non-condensing)
Power	Rechargeable Lithium battery, works continuously for more than 20 hrs after 2-hrs full charge
Dimensions (Length x Width x Height)	16x7x3 cm (measured without case)
Weight (w/ batteries)	<0.2Kg

Ordering information

C4761(8+1) 

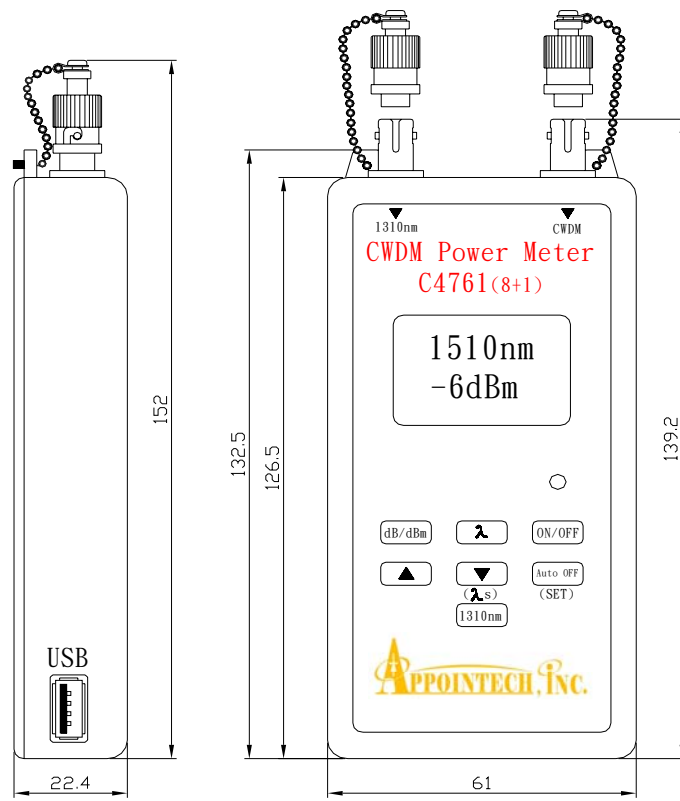
Connector type
SC, FC, ST,
Or universal UV

1 for input power range +3 to -60 dBm

2 for input power range +23 to -40 dBm

Options: Standard Multi-units Carrying Case
Heavy-Duty Multi-units Carrying Case
Receptacle Converters

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Unit:mm

