

## C2000 Power Meter With Data Storage and Logging



C2000 Power Meter with Data Storage

The Appointech C2000 handheld power meters have calibrated outputs at LD wavelengths of 850, 1310, 1490, 1550, and 1625nm, or customer-specified ones. The operation is very user-friendly. After turn-on with the ON/OFF switch, the given individual input wavelength is set by pressing the  $\lambda$ -key until the correct value is shown on the LCD display, together with the corresponding input power value. The power unit can be selected among dBm, mW, uW, and nW. When the "Unit" key is pressed for about 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 measurement will be the difference in dB, with respect to the new reference. 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 key again. 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 charging is in OFF-mode, the indicator LED will be on until 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. A tool symbol is shown on the LCD. The power of a stabilized light source of the wavelength to be calibrated is first measured with the standard power meter in dBm, 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 ▲ and down ▼ 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 calibration is finished.

The data storage feature is also available. The power is measured at different selected wavelength, and event location. The data are stored, and recalled with display of event, wavelength, and power value. The power meter can also be programmed to measure at given time interval up to 500 data points. The data are then up-loaded to a PC in EXEL file through an USB cable for analysis.

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### Features

- Data storage, logging, and PC up-loading
- Calibration on-site with customer's own standard if needed
- Display measurement in dB, dBm, mW, uW, nW
- Selection of relative/absolute power measurement
- Resolution 0.01dB; absolute accuracy  $\pm 0.25$ dB
- For both single-mode and multi-mode optical fiber
- Small size, easy for field applications
- Light weight, about 0.2Kg
- Auto power shut-off can be disabled
- Rechargeable battery, Battery-full and Battery-low indicator

### Applications

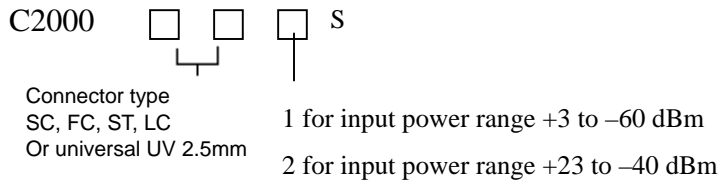
- Power measurements
- Fiber network tests
- Transmission loss measurement
- Calibration of optical receivers

### Specifications

Detector Material	InGaAs
Calibration Wavelengths	850, 1310, 1490, 1550, 1625nm or customer specified ones
Power Range	+3 to -60 dBm or +23 to -40 dBm
Polarization Dependence	< 0.1 dB
Absolute Accuracy	$\pm 0.25$ dB under calibrated conditions
Linearity	$\pm 0.05$ dB
Display	LCD displays power in selected unit, wavelength. Warning symbol for low battery, Auto-Off Enable/disable
Calibration Data	Data stored in non-volatile memory
Functions	ON/OFF: power switch; Auto-Off: enable/disable switch $\lambda$ -key: input wavelength selection Unit-key: power unit selection, and new power reference set Data storage and PC up-loading 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

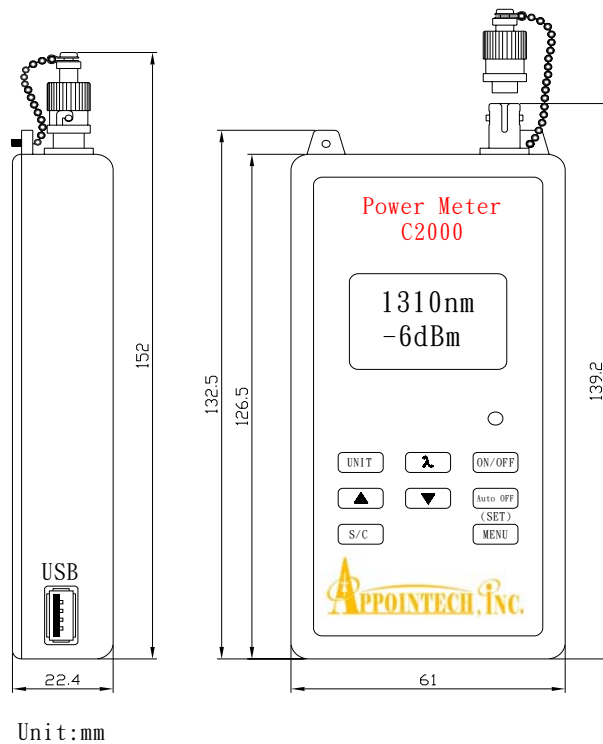
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## Ordering information



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

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