

## C3000 PON Power Meter



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The Appointech C3000 handheld PON power meters have calibrated outputs at wavelengths of FP 1310nm, muxed DFB 1490 and 1550nm in the PON networks. The operation is very user-friendly. After turn-on with the ON/OFF switch, the input wavelength to be measured can be selected by pressing the  $\lambda$ -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 channels in the single input fiber are displayed with power values. Therefore, this unit can also be used as a wavelength identifier. The power unit is normally set in dBm. When the dB/dBm 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. 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 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. 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 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 if needed
- Display measurement in dB/dBm
- Selection of relative/absolute power measurement
- Resolution 0.01dB; absolute accuracy  $\pm 0.25$ dB
- Small size, easy for field applications
- Light weight, about 0.2Kg
- Auto power shut-off can be disabled

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- Rechargeable battery, Battery-full and Battery-low indicator

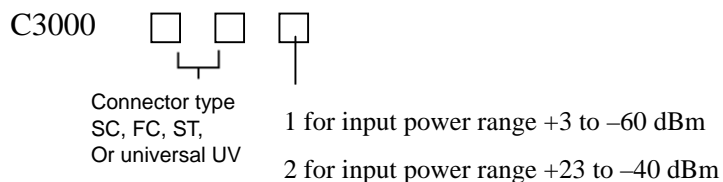
### Applications

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

### Specifications

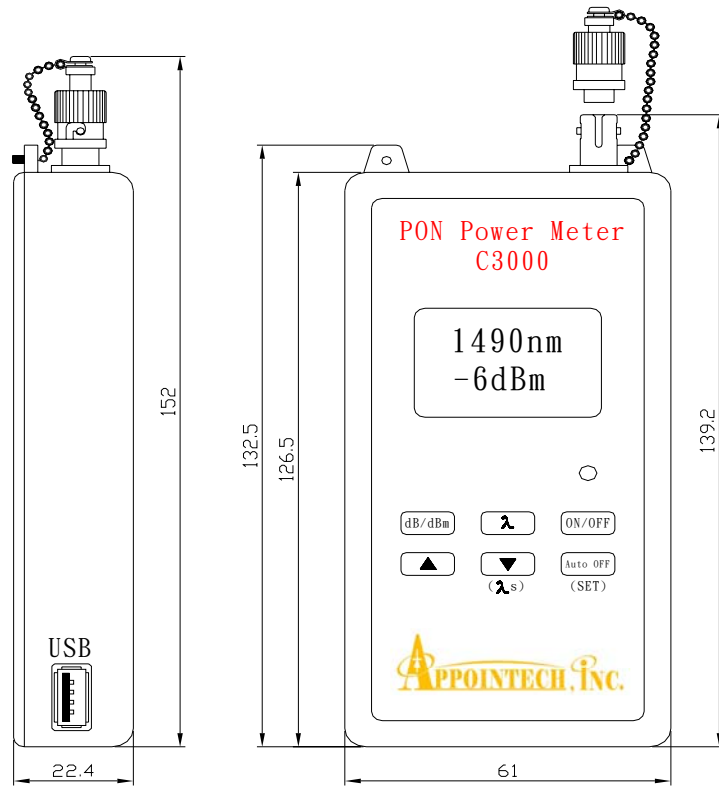
Detector Material	InGaAs
Calibration Wavelengths	1310 +/- 50nm, 1490 +/- 10nm, 1550 +/- 10nm
Power Range	+3 to -60 dBm or +23 to -40 dBm
Polarization Dependence	< 0.1 dB
Absolute Accuracy	±0.25dB under calibrated conditions
Linearity	±0.05dB
Display	LCD displays power in selected unit, wavelength. Warning symbol for low battery, Auto-Off Enable/disable
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: 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



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

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Unit:mm

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