

Mesureur Puissance Optique Optical Power Meter



TOM 011 – Référence / Part Number: 307967

User manual



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11. Overview

TOM 011 optical power meter is the latest multi-functional power meter designed for the installation, construction and maintenance of optical fiber network.

It features compact size, smooth appearance, user friendly design, optional backlight, auto shut off function, wide measurement range, accurate test, self-calibrating function and universal connector. The stability and reliability of this power meter are greatly improved with the large square ($\phi 1.0\text{mm}$) detector.

12. Features

- Wide dynamic measurement range (up to 80dB)
- Reference power level storage(Ref Setting)
- User self-calibration function
- Comfortable LCD display and backlight LCD display supports night operation.
- Power measurements in dBm or mw and insertion loss in dB
- Optional 10 minutes Auto-off function
- AA alkaline batteries can last more than 140 hours, AC adaptor also available
- Low battery power indication



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13. Specifications

MODEL	TOM 011
Wavelength(nm)	800~1700nm
Detector Type	InGaAs
Detector Size	Ø 1.0mm
Measurement Range (dBm)	-50~+30
Uncertainty	±5%
Calibrated Wavelength(nm)	850,1300,1310,1490,1550,1625
Resolution(dB)	0.01
Optical Connector	FC/PC and SC/APC
Power Supply	Alkaline Battery(3 AA 1.5V batteries); AC Adaptor(9V)
Battery Operating Time	140 h with 1.5V Battery(3pcs)
Operating Temperature(°C)	-10 ~ +60
Storage Temperature(°C)	-25 ~ +70
Relative Humidity	0 to 95% (non-condensing)
Dimension(mm)	190X100X50
Weight(g)	370

14. Standard Accessories

- | | |
|------------------------------|---|
| 1. Main unit | 1 |
| 2. Operation Manual | 1 |
| 3. Cleaning Swabs | 1 |
| 4. AC Power Supply Adapter | 1 |
| 5. Soft Carrying Case | 1 |
| 6. FC/PC and SC/APC adaptors | 1 |



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1. Function

5.1 Function Instructions

- (1) “” Power Supply Switch:

Press it to turn on or off the unit Auto Shut Off

Selection: Press this key shortly to turn on or off the auto shut off function. Under this situation, the unit will automatically shut off after ten minutes idle time.

- (2) “ λ ” Wavelength Selection:

Press this key to switch the wavelength and display it on the top left of the LCD screen.

- (3) “dBm/W” Press this key to switch

between the absolute measurement and relative measurement of the optical power.

- (4) “REF” Press this key for a few seconds to store the current power value as the reference value which will be displayed on the top left of the LCD screen. Press this key shortly to enter the relative measurement mode and the reference value will be displayed on the top left of the LCD screen. It will compare the current power with the reference power and show the relative power value in dB.



2. Operation and Notes

6.1 Turn on/off the unit

Press  key to turn it on, then the LCD screen display the following information.:

- (1) When using the AC adapter, the AC adapter's mark will be showed on the central left screen and lighted.
- (2) The battery mark is showed on the left bottom screen and will be lighted when using the battery. The capacity in the mark will decrease with battery power. Please replace the battery when the mark is empty.
- (3) The "auto-off" mark is showed on the bottom screen. The auto off function is lighted and valid after the unit turned on. The unit will automatically shut off after ten minutes idle time. .
- (4) The power value is displayed in the middle of the screen, the unit is dBm,W,dB.
- (5) The reference power value is displayed on the top right screen, the unit is dBm.
- (6) The working wavelength is displayed on the top left screen., the unit is nm Press "again to turn off TOM 011 power meter.
- (7) User self-calibrating function



Setting Process

- H.** After opening the battery compartment and taking out the batteries, you will find a little red switch with a white button on it and push the white button to “on” position. Then please put the batteries and compartment back and open the unit to re-calibrate it.
- I.** Press the “REF” key once to increase the current power by 0.05dB which will be displayed on the LCD screen.
- J.** Press the “dBm/w” key once to decrease the current power by 0.05dB which will be displayed on the LCD screen.
- K.** Press “ λ ” key to switch the working wavelength.
- L.** Press “ON/OFF” key shortly to store the self-calibrating value.
- M.** Press “ON/OFF” key for 2 seconds to turn off the unit.
- N.** Take out the battery and push that white button to “OFF” position to exit the self-calibrating mode.

3. Maintenance

- Clean the optical connector and adapter regularly.
- Use the regulated optical connector for the test.
- Shut off the power and cover the dust-proof cap after your test.
- Select the power supply within the required voltage range when using AC adapter.
- Please take out the battery when it is not in operation for a period of time.



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4. Troubleshooting

Problems	Possible reasons	Solution
Faint display on the LCD screen	The battery power is low	Charge or replace the battery.
Fail to turn the unit on	Low battery power or the battery is put wrongly	1. Replace the battery.
		2. Re-put the battery
Optical power is not stable after the unit turned off.		Use it after 15 minutes warm-up.

5. Notice

- 9.1 Ensure the connector is clean when test.
- 9.2 Do not plug in the power supply when install the battery.
- 9.3 Do not look into the laser beam when test.
- 9.4 Please charge the battery before using
and do not charge it in the unit.
- 9.5 Please cover the dust-proof cap when it is not in operation.



6. Warranty and service

Caution: Repair it in the field is Forbidden.

24 months warranty for Our TOM 011 Power Meter.

10.1 We warrant that TOM 011 power meter will be free from defects in material and workmanship for 24 months. Should the device fail at any time during this warranty period, we will, at its sole discretion, replace, and repair or refund the purchase price of the product. The worth of the repair or replace will not be higher than purchasing price of this unit.

10.2 If the problems occurred can not be solved by the trouble shooting methods, please contact us or the local distributor directly.

10.3 This warranty is limited to defects in our production, workmanship or material; we will repair or replace the unit free of charge. This warranty only applies to the unit under normal operation without any damage or wrong operation.

10.4 The warranty does not include the following problems:

Repair the unit by yourself without our official authorization.

Wrong operation or accident,

10.5 As to the freight cost caused by repair or replaces the unit under warranty; it will be shared by the customer and Triax.



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