

Instruction manual

APM130



Product may vary from picture.

- To ensure safety, please read this manual carefully before installation and follow the instructions herein.
- Store this manual in a secure place for future reference
- WARNING: CHOKING HAZARD - Accessories contain small parts
- Printed by color ink, water will smudge

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Getting Started

Hello there! Congratulations on your new APM130 product! Our products are packaged and shipped with the utmost care. In the unlikely event that your item is incorrect, incomplete, or unsatisfactory, please contact us and we will see to fix it immediately.

The Quantum meter is designed to measure PAR (Photo synthetically Active Radiation) flux in wavelengths ranging from 400 to 700nm. There is a proportional relationship between the number of photons absorbed in 400 to 700nm band and the rate of photosynthesis in plants, which is important for horticultural studies and monitoring plant physiology.

Package Contents

A – PAR Meter Main Unit



C – 4.9 ft Coiled Cable



E – 2x AAA batteries

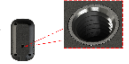


B – PAR Meter Sensor Unit

D – 12 ft Straight Cable

F – User Manual

Sensor unit includes ¼" screw mount for tripod and selfie stick compatibility"



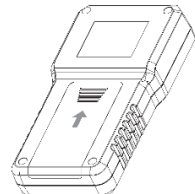
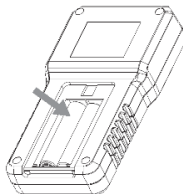
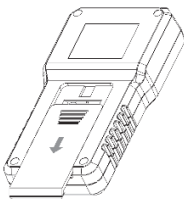
Features at a Glance

Large LCD display

"Hold" function

Operating Instructions

Initial Setup: When first unboxing, please open the battery cover, and pull out the battery insulator. All the LCD segments will be on. Then the quantum meter beginning measurement. Usually, your product is ready, no need to initial setup or calibration.



1. Open the battery cover 2. Insert two AAA batteries into the battery compartment. 3. Close the battery cover

Power on/off

Press the Power button on the right side of the main unit to turn on the quantum PAR meter.

Press and hold the Power button for 3 seconds to turn off the quantum PAR meter.

Hold function

Press **ENTER** to hold the measurement value.

Press **ENTER** again to exit hold function.

Log function

Press **▼** to record the measurement data.

MODE Functions

The mode functions can be toggled through by using **MODE**. Using **ENTER** key to enter menu.

Below is a table showing what mode selection is made by pressing **MODE** multiple times as well as their functions.

Function	Directions
CALI	This function allows the user to adjust ZERO point, when CALI icon is flashing, press ENTER to enter CALI mode, hold ENTER for 3 second, adjust ZERO function will be done. (Note: the photosensitive portion must be completely covered during calibration)
LOG	This feature allows the user to check the history data. once LOG is selected, use ▲ and ▼ to check the history data. Press ENTER to exit this mode.
RCFS	Restore factory setting. This feature allows the user to reset the device to factory settings and erase all stored log data, when enter the RCFS mode, use ▲ or ▼ to select "YES", then hold ENTER for 3 seconds until an audible beep, then the Restore factory setting will be done.

Troubleshooting

Symptom	Cause	Remedy
	Power is not turned on	Turn on the power button
	Battery is empty	Replace battery
	Cable error	Please check the cable, maybe there is some electrical short
LCD main display show"----"	Sensor unit is not working	Please check the cable and redo connect.
	Cable connect error	Please check the cable and redo connect.
	Some foreign body in RJ11 port	Please check RJ11 port, maybe there is some foreign body in RJ11 port.
LCD no display, only battery icon flash	Battery is empty	Replace battery

Specifications

Typical test conditions, unless otherwise specified: Ambient Temp =23+/-3°C,
RH=50%-70%, Altitude=0~100 meter

Measurement	Spec
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Operating & Storage RH	0-95%, non-condensing
PPFD Measurement	
Repeatability	+/-1 µmol/m ² /sec
Measurement Range	0-3999 µmol/m ² /sec
Display Resolution	0.1 µmol/m ² /sec (0-999); 1 µmol/m ² /sec (1000-3999)
Cut-On Wavelength	400+/-10nm
Cut-Off Wavelength	700+/-10nm
Power Requirements	2 x AAA batteries
Dimension	Main Unit: 115 x 60 x 24mm Sensor Unit: 80 x 45.6 x 26mm
Weight	115g (without batteries and cable)

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