

## MEASURES INSTANTANEOUS PHOTOSYNTHETIC PHOTON FLUX.

### DESCRIPTION

A quantum refers to the amount of energy carried by a photon. Quantum meters approximate the quantity of photons between 400 and 700 nanometers. Photosynthesis is largely driven by the number of photons between these wavelengths so this radiation is called the Photosynthetic Photon Flux (PPF) and is measured in  $\mu\text{mol m}^{-2} \text{s}^{-1}$  (micromols of photons per meters squared per second).

Our meters include data recording capability and sun and electric calibration with each meter.

Each meter can store up to 99 manually recorded measurements. In automatic mode, measurements are made every 30 seconds and averages are stored every 30 minutes. Daily totals are also calculated and the past 99 days are recorded. The AC-100 communication cable must be purchased to download data to a PC.

These meters feature our innovative blue lens for improved spectral response along with our cosine-corrected head, self-cleaning characteristics, and long-term stability.



|                                      |                                 |   |
|--------------------------------------|---------------------------------|---|
| (SMPL)<br>99 Sample<br>Measurements  | (LOG)<br>99 Log<br>Measurements | (LOG)<br>99 Daily Total<br>Measurements |
| Viewable on meter LCD & downloadable |                                 | Downloadable Only                       |

### RECOMMENDED ACCESSORIES



**AL-100** A leveling plate used to keep meters with separate sensor level. (MQ-200)



**AL-210** Leveling plate and mounting base for meters with integral sensor.



**AC-100** Communication cable is required for data download to a computer.

## SPECIFICATIONS

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### MEMORY

- 99 manually stored data points
- Automatically store 99 consecutive 30 minute averages
- 99 daily averages

### INPUT POWER

- Standard 3 V coin cell battery

### MASS

- MQ-100: 150 g
- MQ-200: 180 g
- MQ-301: 380 g
- MQ-303, MQ-306: 300 g

### OPERATING ENVIRONMENT

- 0 to 50° C
- Less than 90% non-condensing relative humidity up to 30° C
- Less than 70% relative humidity from 30 to 50° C

### CABLE (MQ-200 & 300 SERIES)

- 2 meters of twisted-pair wire
- Shielded w/ Santoprene casing
- Longer cable lengths are available in multiples of 5 meters

### MEASUREMENT RANGE

- 0 to 2999  $\mu\text{mol m}$

### DISPLAY

- 4.5 cm width by 2.8 cm height

### WARRANTY

- 1 year against defects in materials and workmanship

## MEASUREMENTS

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