

**LEAF AREA INDEX & PHOTOSYNTHETICALLY ACTIVE RADIATION**

- With the new LP-80, you get instant real-time PAR measurements as soon as you turn it on, and your LAI data is updated with each PAR measurement.
- Intuitive 6-key menu-driven interface
- Included external PAR sensor for simultaneous above and below-canopy PAR measurement
- Large memory capacity
- Low power consumption/4AA alkaline battery-powered (2 years)



## Long-battery life, instant real-time PAR and LAI measurements, plus **free** external radiation sensor.

**T**HE LP-80 IS DESIGNED for ease of use—helping you to minimize setup time and begin measuring as soon as possible. It only has 4 menus: PAR/LAI sampling, unattended logging, file access, and setup, and its intuitive 6-key interface allows you to navigate inside these menus with up and down arrow keys, and move from menu to menu with one button push.

**INSTANT REAL-TIME PAR/LAI SAMPLING**  
As soon as you turn the LP-80 on, you're measuring PAR in the PAR sampling mode. Real-time PAR values are displayed on screen, and can be stored

with the press of a button. Simply take one PAR reading above the canopy and one below it, and an LAI calculation is displayed. With each subsequent measurement, this value is updated and displayed on the screen.

### UNATTENDED LOGGING

The unattended PAR sampling mode lets you program the instrument to make and store measurements at intervals from once a minute to once an hour.

### FREE EXTERNAL PAR SENSOR

The LP-80 is shipped to you with an external PAR sensor. This allows you to

make simultaneous above and below-canopy PAR measurements with one button push. You can also re-normalize the LP-80's probe sensors as often as you want by calibrating it against the external sensor.

### USER-CALIBRATED PROBE

The external PAR sensor only needs to be calibrated once every 1–2 years, so this allows you to keep your probe calibrated and accurate while keeping costs low.

## ACCUPAR ACCESSORIES INCLUDED WITH YOUR PURCHASE:

- 1** EXTERNAL PAR SENSOR  
2 meters long with connector for direct connection to the ceptometer's external port. Calibrated to provide an output of about 0.1 mV per  $\mu\text{mol m}^{-2} \text{s}^{-1}$  (calibration label provided). 1/4 x 20 threaded insert for mounting; domed top. Calibrated to sunlight or electric lamps.
- 2** NON-MAGNETIC SCREWDRIVER.
- 3** RS-232 CABLE  
– for interfacing between your computer and the AccuPAR.
- 4** LP-80 USER'S MANUAL
- 5** CARRYING CASE  
Polyethylene hardened case. foam cutouts allow the instrument and its accessories to safely be stored inside. 3.6kg, 11.8cm x 24cm x 109cm.

## AccuPAR LP-80

## HOW ACCUPAR WORKS

THE ACCUPAR MODEL LP-80 is a linear PAR ceptometer consisting of an integrated probe and microcontroller. The probe is 86.5cm long and contains 80 sensors that are sensitive to the PAR waveband. The microcontroller interprets the PAR signals coming from the probe, allowing you to read PAR. It also calculates LAI of your samples instantly with each PAR measurement you take, using the intercepted and available PAR and other variables.

## NEW CEPTOMETER FEATURES

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- Intuitive 6-key menu-driven interface
- Included external PAR sensor for simultaneous above and below-canopy PAR measurement
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■ *FREE external PAR sensor for simultaneous above and below-canopy PAR measurement*

## SPECIFICATIONS

**Operating environment:** 0° to 50° C (32°-122° F) 100% relative humidity.

**Probe length:** 86.5cm.

**Number of sensors:** 80.

**Overall length:** 102 cm (40.25in).

**Probe cross-Section:**  
1.9cm x 0.95cm (0.75 x 0.375in).

**Microcontroller dimensions:**  
15.8 x 9.5 x 3.3cm (6.2 x 3.75 x 1.3 in.)

**PAR range:** 0 to  $>2,500 \mu\text{mol m}^{-2} \text{s}^{-1}$ .

**Resolution:**  $1 \mu\text{mol m}^{-2} \text{s}^{-1}$ .

**Minimum spatial resolution:** 1cm.

**Data storage capacity:** 1MB RAM.

**Unattended logging interval:**  
User selectable, between 1 and 60 minutes.

**Instrument weight:**  
1.21kg (2.7lbs).

**Data retrieval:** Direct via RS-232.

**Keypad:** 6-Key menu-driven.

**Clock:** 24-hour  $\pm 1$  minute per month.

**Interface cable:** RS-232 cable.

**Power:** Four AA Alkaline cells.

**External PAR sensor connector:**  
Locking 3-pin sealed circular connector.

## DECAGON

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