



METER
ENVIRONMENT



ACCUPAR LP-80

Accurate PAR and LAI analysis in real time

Backed by 15 years of research, the LP-80 is one of the most trusted and relied upon instruments among crop scientists, ecologists, and foresters. Why? One of the main reasons is because it uses radiation measurements and other parameters to accurately calculate leaf area index (LAI) in real time, so you can be confident your data is right while in the field. And because the methodology is mostly automated, it spares you from intensive hand labor, saving you time. The LP-80's low cost also saves your entire budget from evaporating.

The LP-80's included external PAR sensor can be used to make simultaneous above- and below-canopy PAR measurements as a reference for intercepted light in clear, partly cloudy, or even overcast sky conditions. No wonder it's relied on for publishable measurements year after year.

The LP-80 costs less than competitor instruments that make the exact same measurements. It weighs less as well. At a little over one pound (0.5 kg), it's not only lightweight, but smaller and self-contained, so it's easier to carry around. And because the display is integrated with the measurement wand, you aren't burdened by having to bring a separate instrument to read data. There aren't any complex sets of buttons or screens to navigate either, allowing the LP-80 to provide the most value for less everything.

Features

- Measures canopy PAR
- Automatically calculates Leaf Area Index in real-time
- Lightweight
- Self-contained
- Powered by four AAA batteries
- Can log data unattended for short periods of time
- Stores over 2,000 readings for later download and analysis
- Above-canopy sensor enables simultaneous above- and below-canopy PAR measurements

Specifications

MEASUREMENT SPECIFICATIONS

Probe PAR sensors	Range: 0 to 2,500 $\mu\text{mol}/(\text{m}^2\text{s})$ Resolution: 1 $\mu\text{mol}/(\text{m}^2\text{s})$
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External PAR sensor	Range: 0 to 4,000 $\mu\text{mol}/(\text{m}^2\text{s})$ (full sunlight $\sim 2,000$ $\mu\text{mol}/[\text{m}^2\text{s}]$) Resolution: 1 $\mu\text{mol}/(\text{m}^2\text{s})$ Accuracy: $\pm 5\%$
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Unattended logging interval	Between 1 and 60 min (user selectable)
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PHYSICAL SPECIFICATIONS

Controller dimensions	Length: 15.80 cm (6.20 in) Width: 9.50 cm (3.75 in) Height: 3.30 cm (1.30 in) Weight: 0.55 kg (1.21 lb) with batteries
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Probe dimensions	Length: 86.5 cm (34.06 in) Width: 19.0 cm (7.5 in) Height: 9.5 cm (0.38 in)
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External sensor dimensions	Diameter: 24.0 mm (0.94 in) Height: 27.0 mm (1.06 in)
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Probe sensors	Number: 80 Type: Photosynthetically active radiation sensor
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External sensor	Number: 1 Type: Apogee SQ110 photosynthetically active radiation sensor
Operating temperature range	Minimum: 0 °C Maximum: 50 °C
Operating relative humidity range	Minimum: 0% Maximum: 100%
Power	4 AA batteries, included
Data storage	1 MB flash memory
External PAR sensor	Locking 5-pin sealed circular connector on 5-m cable
Computer interface	Locking 5-pin sealed circular connector to RS-232 cable
COMPLIANCE	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010 (CE Mark)

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