METER

ACCUPAR LP-80

Canopy Interception and Leaf Area Index

MEASURING CANOPY DENSITY CAN BE PROBLEMATIC

There are several methods to measure how much light is intercepted by a canopy in order to determine if water loss is from evaporation or transpiration. There's the hard way. There's the expensive way. And then there's the smart way: the LP-80.

RAPID READINGS. EASY TO USE.

The optimal method for measuring fractional PAR (photosynthetically active radiation) is with the LP-80 Ceptometer. It's a highly accurate way to determine canopy growth and canopy light interception, along with calculating fractional interception and crop coefficient. And because the methodology is automated, it spares you from intensive hand labor, saving you time. The LP-80's low cost also saves your entire budget from evaporating.

FEATURES

- Measures canopy PAR
- Automatically calculates Leaf Area Index in real-time
- Lightweight and 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

SPECS

Probe PAR Sensors	**Range:** 0.0 – 2500.0 µmol/(m²s) **Resolution:** 1.0 µmol/(m²s)
External PAR Sensor	**Range:** 0 to 4,000 µmol/(m²s) (full sunlight ~2,000 µmol/[m²s]) **Resolution:** 1.0 µmol/(m²s) **Accuracy:** ±5.0 %
Unattended Logging Interval	Between 1 and 60 min (user selectable)
Computer Interface	Locking 5-pin sealed circular connector to RS-232 cable
Controller	**Length:** 15.8 cm (6.20 in) **Width:** 9.5 cm (3.75 in) **Height:** 3.3 cm (1.30 in) **Weight:** 0.6 kg (1.21 lb) with batteries
External PAR Sensor	Locking 5-pin sealed circular connector on 5-m cable
External Sensor Dimensions	**Diameter:** 24.0 mm (0.94 in) **Height:** 27.0 mm (1.06 in)
Probe Dimensions	**Length:** 86.5 cm (34.06 in) **Width:** 19.0 mm (0.75 in) **Height:** 9.5 mm (0.38 in)
Probe Sensors	**Number:** 80 **Type:** Photosynthetically active radiation sensor
External Sensor	**Number:** 1 **Type:** Apogee SQ110 photosynthetically active radiation sensor
Data Storage	1 MB flash memory
Operating Temperature Range	**Minimum:** 0 °C **Maximum:** 50 °C
Operating Relative Humidity Range	**Minimum:** 0 % **Maximum:** 100 %
Power	4 AA batteries, included
Compliance	EM ISO/IEC 17050:2010 (CE Mark)
GSA	View GSA details

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