ACCUPAR LP-80: Leaf Area Index

DESCRIPTION

The LP-80's simplicity of use has a lot to do with its automation. Rather than the painstaking 4- to 5-hour destructive method of running leaves through a conveyor belt, the LP-80 instead measures the photosynthetically active radiation that is impinging on the measurement wand. This is also a lot easier than the other time-consuming, multi-step alternative of placing a camera beneath a canopy, taking a picture with a fisheye lens and then using software for photo analysis.

LP-80 doesn't just automate the measurement, but also the data itself. Even in raw form, data are collected, stored, and can even be downloaded so you can analyze your data anywhere. This allows you to look at correlations to make sure what you saw in the field is consistent with your measurements. In addition, the attached controller can be used to take measurements manually or log data unattended for short periods of time.

ACCUPAR

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

A lightweight, portable, linear array of PAR sensors designed for real time, non-destructive LAI measurements, the LP-80 has you covered when it comes to reliable results, along with time, labor, and cost savings.

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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.

SPECIFICATIONS	
Probe PAR sensors	**Range:** 0 to 2,500 µmol/(m^2s) **Resolution:** 1 µmol/(m^2s)
External PAR sensor	**Range:** 0 to 4,000 µmol/(m^2s) (full sunlight ~2,000 µmol/[m^2s]) **Resolution:** 1 µmol/(m^2s) **Accuracy:** ±5%
Unattended logging interval	Between 1 and 60 min (user selectable)
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
Probe dimensions	Length: 86.5 cm (34.06 in) Width: 19.0 cm (0.75 in) Height: 9.5 cm (0.38 in)
External sensor dimensions	Diameter: 24.0 mm (0.94 in) Height: 27.0 mm (1.06 in)
Probe sensors	Number: 80 Type: Photosynthetically active radiation sensor
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 2-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)

- **ACCUPAR LP-80**

  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.

This Instrument is manufactured by our principle company

METER Environment - USA

Contact info

Monitoring MENA

Insight into instrumentations

(962) 5353-2091

PO Box 1100 Salt

Post Code 19110 **JORDAN**

sales@monitoring-mena.com

www.monitoring-mena.com