



SPAD 502 Plus Chlorophyll Meters quantifies the health of your crops

The SPAD 502 Plus Chlorophyll Meter instantly measures chlorophyll content or “greenness” of your plants to reduce the risk of yield-limiting deficiencies or costly overfertilizing. The SPAD 502 Plus quantifies subtle changes or trends in plant health long before they’re visible to the human eye. Non-invasive measurement; simply clamp the meter over leafy tissue, and receive an indexed chlorophyll content reading (0-99.9) in less than 2 seconds. Assess nitrogen needs by comparing in-field SPAD readings to university guidelines or to adequately fertilized reference strips. Research shows a strong correlation between SPAD measurements and leaf N content.

New features in the SPAD 502 Plus include:

- Trend graphing stores and displays up to 30 measurements
- Waterproof design

The SPAD 502 Plus meter can be purchased with or without a built-in data logger. The data logging version (Item 2900PDL) allows you to compile readings for statistical analysis. Includes an RS-232 port for communicating with a PC\* and/or portable GPS receiver\*\*. Use geo-referenced data to correlate N measurements to yield maps or download the data into mapping software. This robust field-data collection device has a capacity of 1,488 measurements when coupled with a GPS receiver or 4,096 measurements when used without GPS. Requires software running on Windows 98 or higher. GPS/DGPS cable required for geo-referenced operation. Use the powerful SpecMaps online application to discover the value of spatially variable sensor measurements. Mapping software requires GPS; not included.

## SPECIFICATIONS FOR SPAD 502 & 502DL

**Optical Density Difference at two wavelengths:** 650 nm and 940 nm

**Measurement Area:** 2 mm x 3 mm (Approximately 3/32in x 1/8in)

**Light Source:** 2 LEDs

**Receptor:** Silicon Photodiode

**Power Source:** 2 AA alkaline batteries (1.5V)

**Repeatability:** Within  $\pm 0.3$  SPAD unit

**SPAD Value:** Index of relative chlorophyll content; 0.0 to 99.9