



### Spectrally defined transmission ratio for comparison to remote sensing measurements

#### APPLICATIONS

- Non-destructive measurement of chlorophyll concentration on intact leaf samples.
- Improve nutrient management. Chlorophyll is correlated with leaf nitrogen concentration.
- Herbicide effects.
- Leaf senescence studies.
- Detect and study environmental stress.

#### SPECIFICATIONS

<b>MEASURED PARAMETERS</b>	Ratio of optical transmission at 653 nm (25 nm half-bandwidth) divided by transmission at 931 nm (50 nm half-bandwidth). See web for equation to convert from arbitrary Minolta SPAD units to spectrally defined CCI units.
<b>MEASUREMENT AREA</b>	3/8" diameter circle (71 mm <sup>2</sup> area, more than 10x larger than Minolta SPAD 502 meter)
<b>RESOLUTION</b>	± 0.1 Chlorophyll Concentration Index (CCI) Unit
<b>RANGE</b>	0 to 200
<b>SAMPLE ACQUISITION TIME</b>	2-3 seconds
<b>RADIATION SOURCE</b>	Two LEDs
<b>DETECTORS</b>	Two silicon photodiodes with integral amplifiers
<b>STORAGE CAPACITY</b>	Internal datalogging of over 4,000 measurements
<b>USER INTERFACE</b>	16 x 12 alphanumeric LCD, 4 keys for control and data manipulation, beep signal for status and warnings.
<b>OUTPUT</b>	RS-232 automatic transfer with PC software included.
<b>OPERATING TEMPERATURE</b>	0-50°C
<b>TEMPERATURE DRIFT</b>	Temperature compensated source and detector circuitry for minimum drift over full range.
<b>INPUT POWER</b>	Standard 9V alkaline battery
<b>AUTO OFF INTERVAL</b>	4 minutes (with no key press or download)
<b>DIMENSIONS</b>	15.0 x 8.2 x 2.5 cm
<b>MASS</b>	220 g (with battery)

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