



CL-01 Chlorophyll Content System

Chlorophyll Content Meter

- > User-friendly, low-cost chlorophyll content meter
- > Field-portable, lightweight, robust design
- > Dual-wavelength optical absorbance (660 and 940nm)
- > Chlorophyll content range : 0-2000 units
- > Simple 2-button operation
- > Auto-calibration and temperature compensation
- > 60-measurement memory capacity
- > No PC required

CL-01 Chlorophyll Content System

The CL-01 chlorophyll content meter provides a convenient, low-cost method of measuring the relative chlorophyll content of a leaf sample. The measurement of chlorophyll content provides an indicator of photosynthetic activity relating to the nitrogen concentration of the sample. This is particularly significant in plant growth programs where effects of the addition of nitrogen to a crop may be closely monitored.

The field-portable, hand-held device determines relative chlorophyll content using dual-wavelength optical absorbance (660nm and 940nm wavelength) measurements from leaf samples. Relative chlorophyll content is displayed in the range 0 – 2000 units.

The CL-01 features simple 2-button operation. Measurements take less than half a second and a maximum of 60 may be saved for individual review or displayed as an average. Leaf samples may be up to a maximum of 127mm wide. CL-01 is auto-calibrating and all measurements are temperature compensated to allow for changes of ambient temperature between measurements.

An internal rechargeable lithium polymer battery pack provides up to 75 hours of operation with a recharge time of approx. 4 hours using the 12 DC mains battery charger supplied.

Technical specifications

CL-01 Chlorophyll Content System

Dimensions (LWH):	230mm x 91mm x 45mm
Weight:	250g
User Interface:	2-button keypad 2 line x 16 character LCD display
Electronics:	Selectable between 0.4V - 0.9V (0.7V recommended default) Battery 8-bit microcontroller Environmentally friendly (0% lead, cadmium, mercury), lithium polymer 3.7V, 570mA/hrs
Battery Charger:	Integral switch mode battery charger 8-13.5V input (nominal 12V output)
Battery Life:	75 hours continuous usage
Light Source:	2 x LEDs (660nm and 940nm)
Detector:	High-sensitivity silicone PIN photodiode
Memory:	60-measurement capacity



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Our product range consists of a range of modular solutions for the measurement of oxygen using Clark-type polarographic sensors. We also develop chlorophyll fluorescence measurement systems using both continuous excitation & pulse-modulated measurement techniques with further optical instrumentation for the measurement of sample chlorophyll content.



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