



CL-01 Chlorophyll Content System

Chlorophyll Content Meter

- > User-friendly, low cost chlorophyll content meter
- > Field portable, light-weight, robust design
- > Dual wavelength optical absorbance (620 and 940nm)
- > Chlorophyll content range : 0-2000 units
- > Simple 2 button keypad 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 affects 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 (620 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 (5 inches) 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): | 230 x 91 x 45mm |
| Weight: | 250gms |
| User Interface: | 2 button keypad 2 line x 16 character LCD display |
| Electronics: | Selectable between 0.4 - 0.9V (0.7V recommended default) Battery8 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 input) |
| Battery Life: | 75 hours continuous usage |
| Light Source: | 2 x LED's (620 and 940nm) |
| Detector: | High sensitivity silicone PIN photodiode |
| Memory: | 60 measurement capacity |



Hansatech Instruments is a British company that has been developing high quality scientific instrumentation for over 40 years. Our systems are used widely for teaching & research in cellular respiration & photosynthesis programs in more than 100 countries throughout the world. We have gained an enviable reputation for quality, reliability & excellent price/performance.



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.



Purchasers of Hansatech Instruments products can be assured of ongoing support & prompt & efficient attention to enquiries at all times. Support is available both directly & from our global distributor network. Customers are encouraged to register their instruments on our website which allows access to our Support Ticketing System in addition to instruments manuals & software upgrades.

Hansatech Instruments Ltd
 Narborough Road, Pentney, King's Lynn, Norfolk PE32 1JL, UK
 Tel: +44 (0)1760 338877 Fax: +44 (0)1760 337303
info@hansatech-instruments.com
www.hansatech-instruments.com

