



## CL-01

### Chlorophyll Content Measurement System

- ✓ 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



## Hansatech Instruments

Hansatech Instruments is a small, British, scientific instrument company located in the heart of rural Norfolk. For over 40 years, our efforts have been concentrated towards the design & manufacture of high quality instrumentation for teaching and research in the fields of cellular respiration and photosynthesis. Our instruments are now in use in a wide range of programs in more than 100 countries throughout the world and have gained an enviable reputation for quality, reliability and excellent price/performance.



## Products

Hansatech Instruments product range covers a wide range of applications in the fields of photosynthesis and cellular respiration. We manufacture oxygen measurement systems based on Clark type polarographic oxygen sensors, chlorophyll fluorescence measurement systems for both continuous excitation and pulse-modulated measurement techniques and optical instrumentation for the measurement of sample chlorophyll content.



## Support

Purchasers of Hansatech Instruments products can be assured of ongoing support and prompt and efficient attention to enquiries at all times. Customers are encouraged to register their instruments on our website which allows access to our Support Ticketing System in addition to instruments manuals and software upgrades.



Scan the code for further information.

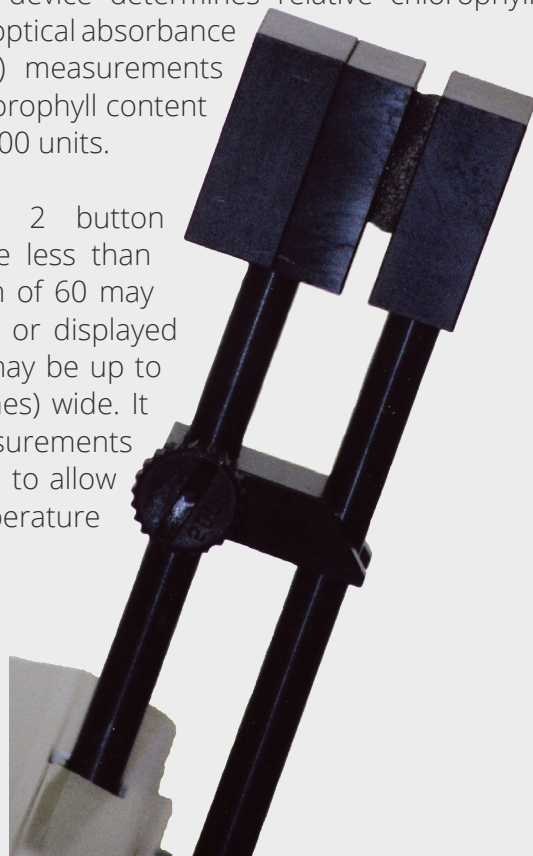
## Overview

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. It 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

<b>Dimensions:</b>	230 (l) x 91 (w) x 45mm (h)
<b>Weight:</b>	250gms
<b>User Interface:</b>	2 button keypad 2 line x 16 character LCD display
<b>Electronics:</b>	8 bit microcontroller
<b>Battery:</b>	Environmentally friendly (0% lead, cadmium, mercury), lithium polymer 3.7V, 570mA/hr
<b>Battery Charger:</b>	Integral switch mode battery charger 8-13.5V input (nominal 12V input)
<b>Battery Life:</b>	75 hours continuous usage
<b>Light Source:</b>	2 x LED's (620 and 940nm)
<b>Detector:</b>	High sensitivity silicone PIN photodiode
<b>Memory:</b>	60 measurement capacity