

CLEANGROW'S MISSION

To give growers greater control over crop yield with a unique “lab-in-hand” technology that generates real-time, actionable data on the concentration of essential nutrients in their irrigation water, drain and soil extractions.

A NEW CLASS OF MULTI-ION SENSOR

CleanGrow offers a new class of multi-ion analyser that allows commercial growers to optimise their fertigation process. The product combines a carbon nanotube-based sensor with a multiple-ion meter to simultaneously measure the concentration of up to six essential nutrients on site and provide feedback in real time. Using the same principles as a pH meter, this allows growers to go a step beyond EC and consistently strike the right nutrient balance for optimum growth.

THE CARBON NANOTUBE DIFFERENTIATOR

- Extraordinary capacity to promote electron transfer within ISEs.
- Reliable and predictable performance at high and low ion concentrations.
- No sensitivity to light interferences.
- Response stability over long periods.

SIMULTANEOUSLY MEASURES UP TO 6 IONS ON SITE AND IN REAL TIME



CleanGrow's patented sensor technology is the first to use single-walled carbon nanotubes for ion-selective electrode (ISE) applications. This greatly expands the scope and application of ISEs. Carbon nanotubes have qualities that make them ideal for ion sensor applications.



CleanGrow Office Locations:

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THE INDUSTRY'S MOST ADVANCED SENSOR TECHNOLOGY FOR FERTIGATION OPTIMISATION

METER

- Large display that shows readings from up to six ions at once.
- All sensors can be calibrated simultaneously through an easy-to-use menu.
- Multiple samples/readings can be saved for recall or imported to your PC program.
- Totally portable (weight: 500g; dimensions: 22.5cm L x 11.5cm W x 5cm H).
- Long battery life.
- Robust casing and splash-resistant design.

SENSORS

- Sensors and reference electrode are true solid state.
- Sensors can be stored for extended periods without affecting performance.
- Sensors require limited maintenance and have a long life cycle.

METER LINK PC SOFTWARE

- Setup of the meter is quickly performed through our PC software.
- Saved readings can be imported to your PC.
- Your data can be filtered and exported to Excel.

BETTER YIELD, IMPROVED FLAVOUR AND COLOUR, GREATER DISEASE RESISTANCE AND LONGER SHELF LIFE



MULTI-ION SENSOR

- Available in three, four or six-ion probe versions.
- Custom combinations can be made upon request.
- Sensors perform over a broad range of ion concentrations (0.05 to 60,000ppm) and at temperatures from 5 - 50°C
- Multi-ion probes are 180mm long, 16mm diameters and contain a reference electrode.

PRODUCT CONFIGURATIONS

Sensors	3-Ion Probe	4-Ion Probe	6-Ion Probe
Calcium	✓	✓	✓
Chloride			✓
Potassium	✓	✓	✓
Sodium		✓	✓
Ammonium			✓
Nitrate	✓	✓	✓
Reference electrode	✓	✓	✓

some recent customers:

