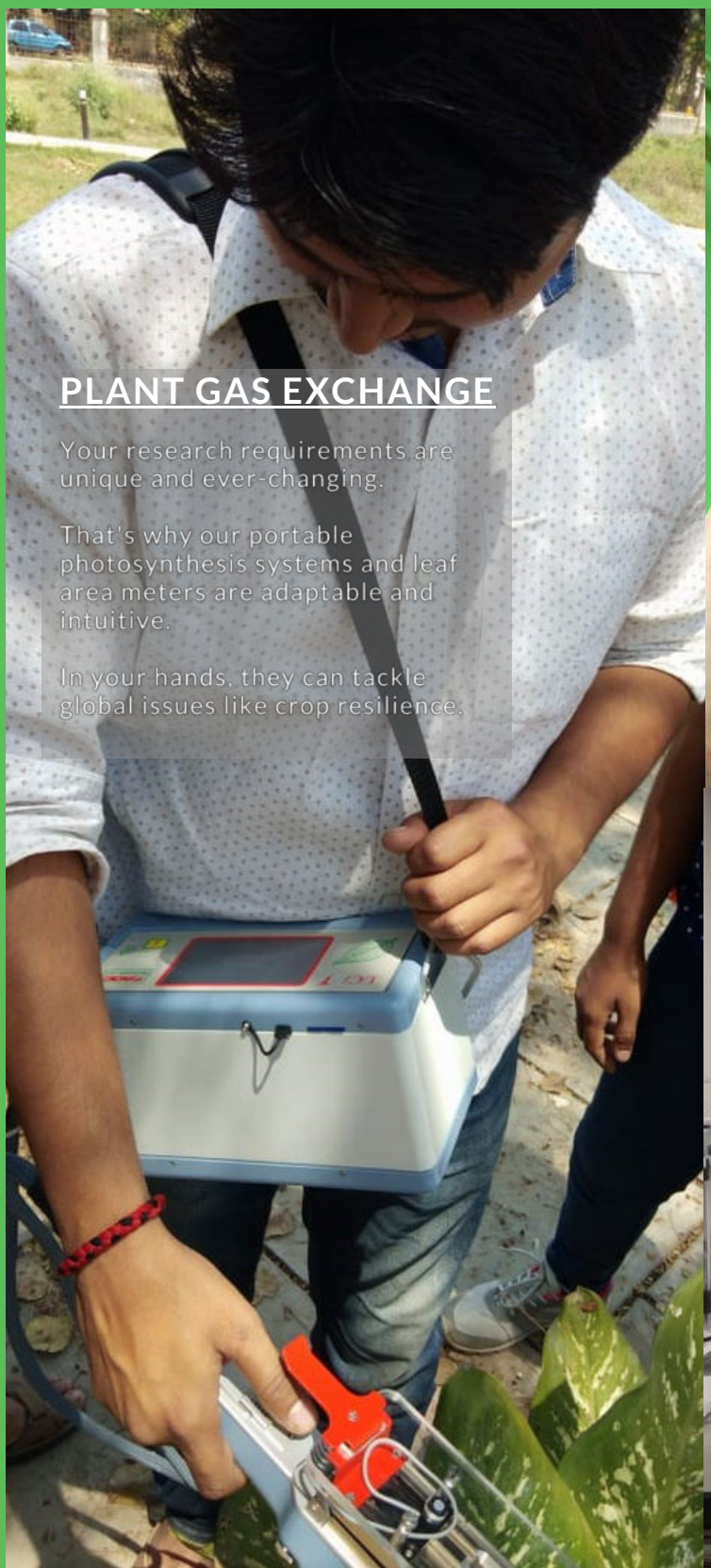

50+ Years of service to science
ADC
BioScientific Ltd.
ADC BioScientific
CATALOGUE 2022

CONTENTS

ADC BioScientific Ltd. are always listening to your research needs, bringing you a comprehensive range of portable, intuitive and cost-effective devices.

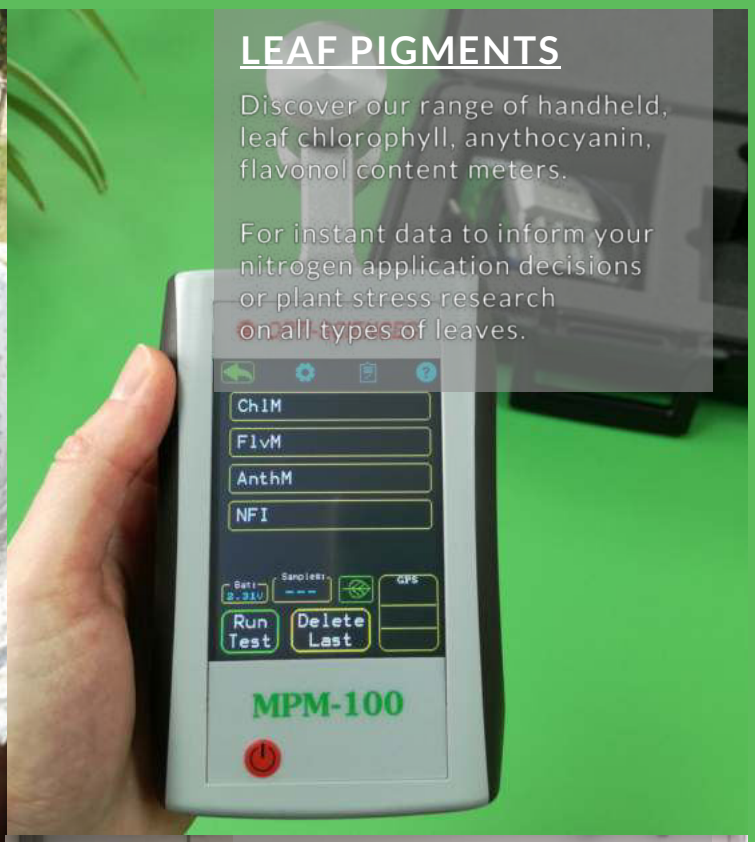


PLANT GAS EXCHANGE

Your research requirements are unique and ever-changing.

That's why our portable photosynthesis systems and leaf area meters are adaptable and intuitive.

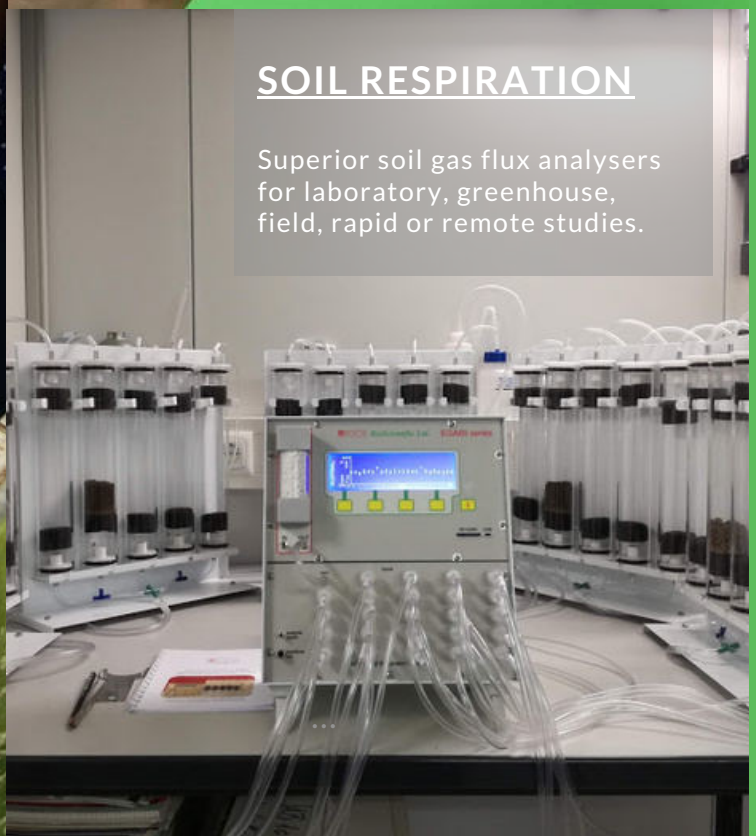
In your hands, they can tackle global issues like crop resilience.



LEAF PIGMENTS

Discover our range of handheld, leaf chlorophyll, anythocyanin, flavonol content meters.

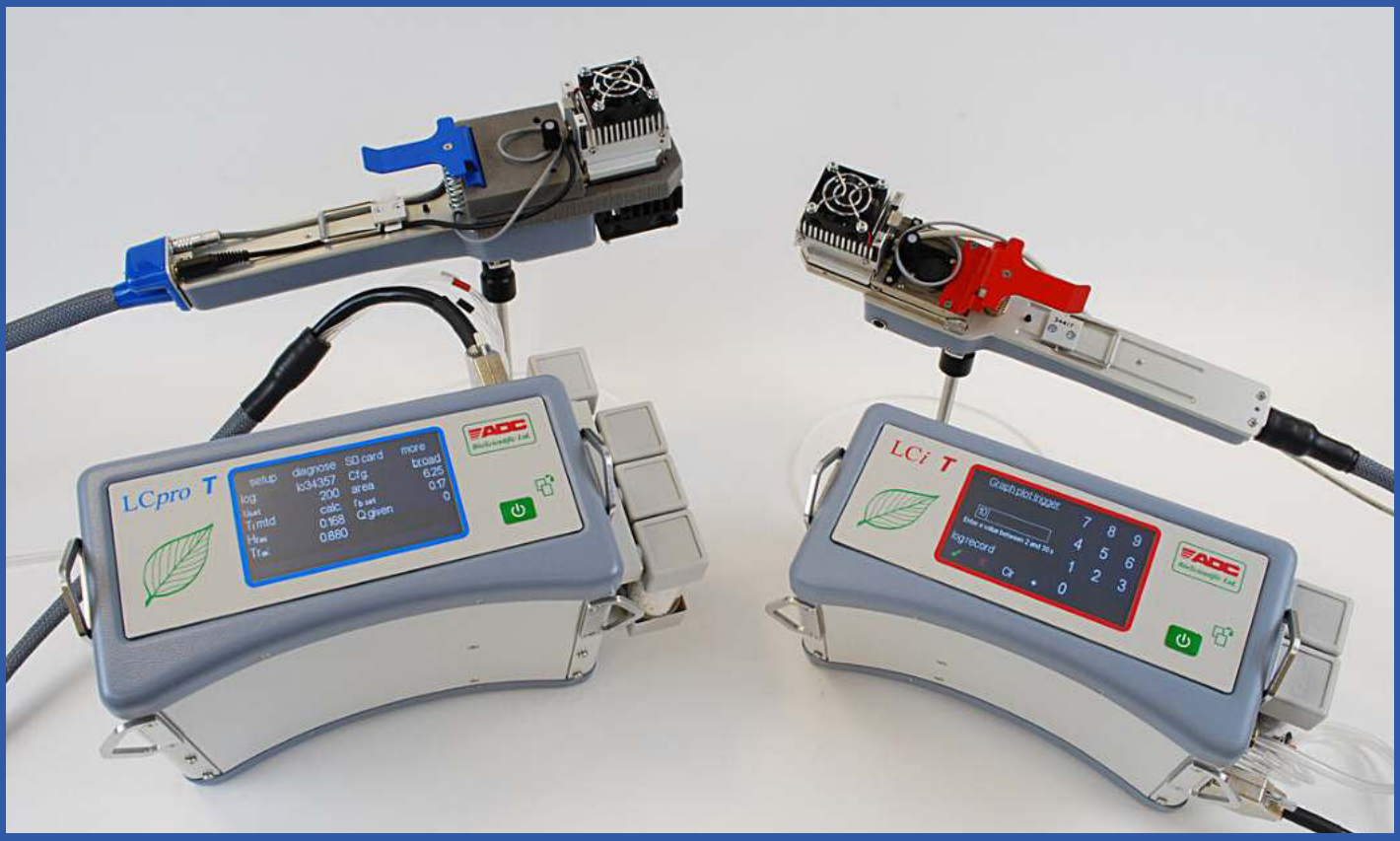
For instant data to inform your nitrogen application decisions or plant stress research on all types of leaves.



SOIL RESPIRATION

Superior soil gas flux analysers for laboratory, greenhouse, field, rapid or remote studies.

LEAF GAS EXCHANGE



LCpro T

Intelligent, Portable Photosynthesis System

- Infra Red CO_2 detection 0-3000ppm
- Integral data logger to SD card/RS232
- Colour, touchscreen display
- Enhanced climate control within leaf chamber
- Programmable RGB or White LED unit
- GPS data recorded

LCi T

Accessible, Portable Photosynthesis System

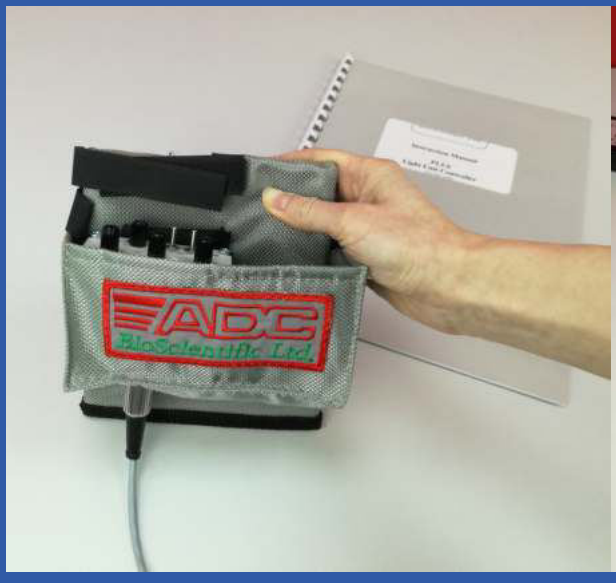
- Infra Red CO_2 detection 0-2000ppm
- Integral data logger to SD card/RS232
- Colour, touchscreen display
- Programmable RGB or White LED unit
- GPS data recorded

LEAF GAS EXCHANGE

PLU6

Independent Light Unit Controller

- Control our White and RGB LED light units
- Connect either LCi or LCpro type systems
- With Small, Broad, and Narrow chambers
- Control a light unit for independent illumination
- Flexible output control in 15 adjustable steps for each LED colour
- Attaches to a photosynthesis system for portability



LEAF AREA

AM350

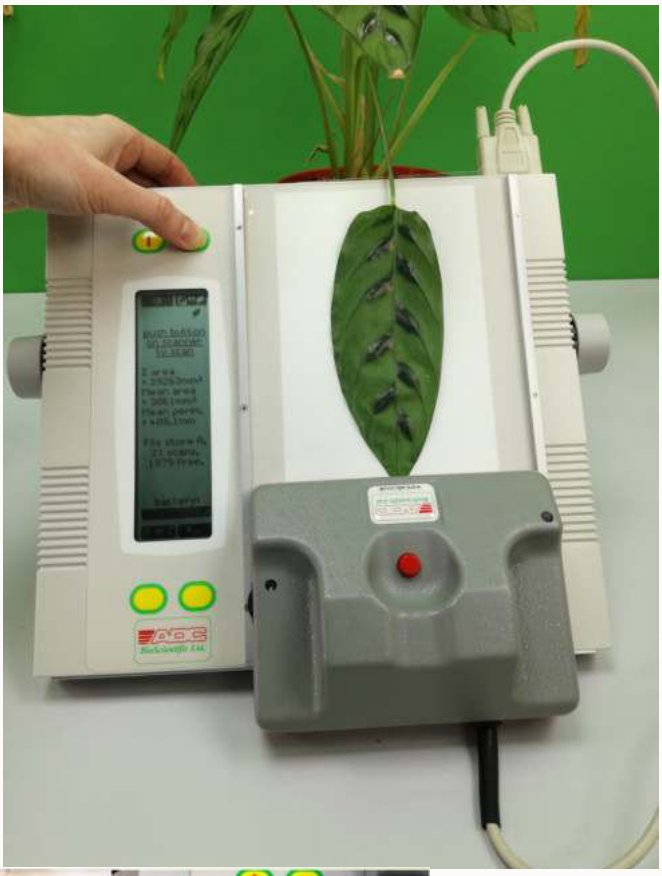
Portable Leaf Area Meter

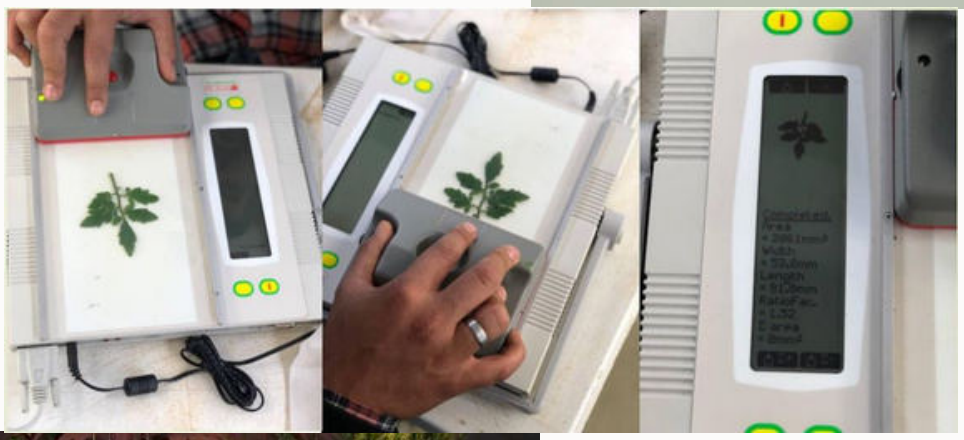
Saves you time by calculating and recording:

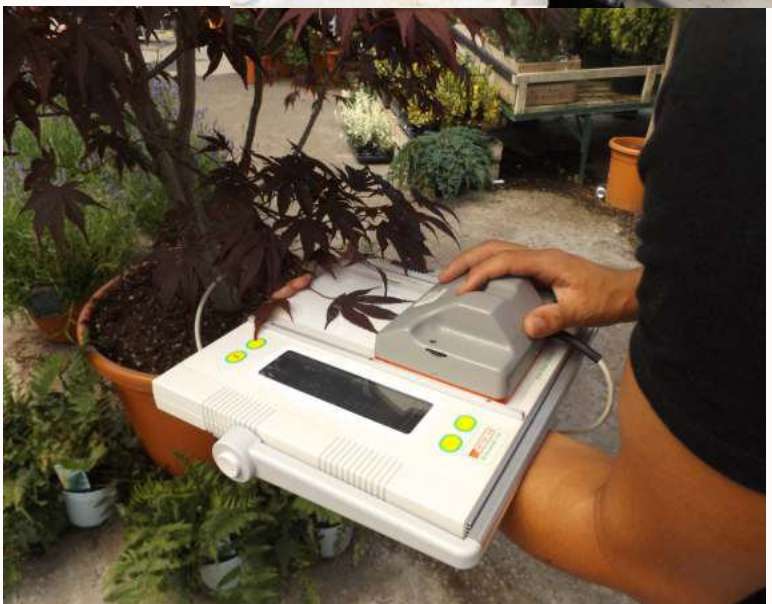
Area
Accumulated area
Mean area
Diseased leaf area
Length
Width
Perimeter
Ratio R = L / Wm
Shape factor F = 4π A / P^2

Units: Choice of mm, cm or inches

Non-destructive







Whole leaf area
Diseased leaf area
Discoloured leaf area
Insect damage
Certain roots and rhizomorphs

Extend scan using additional surface for:
Long leaves
Wide leaves

LEAF PIGMENTS

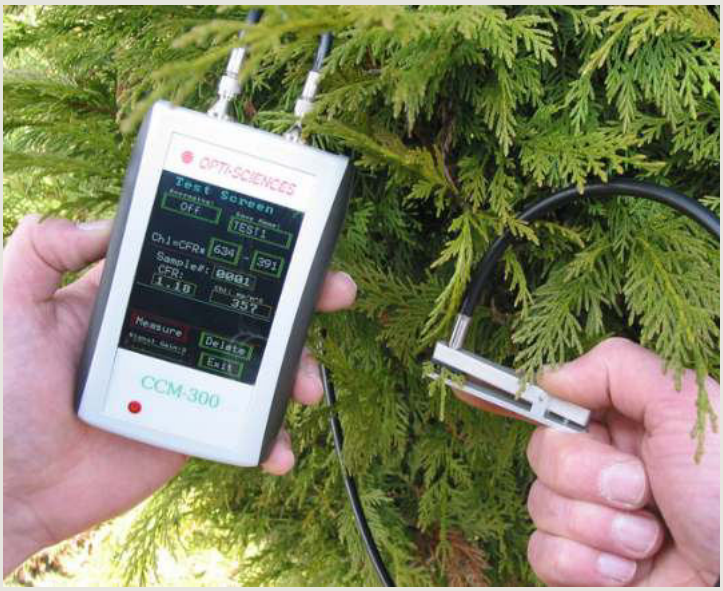
MPM-100
Multi-Pigment-Meter

Accurately measures anthocyanin, flavonol and chlorophyll and computes a Nitrogen-Flavonol Index

Available with alternative chlorophyll parameters:

- CCI Chlorophyll Content Index
- "SPADa" equivalent to SPAD®

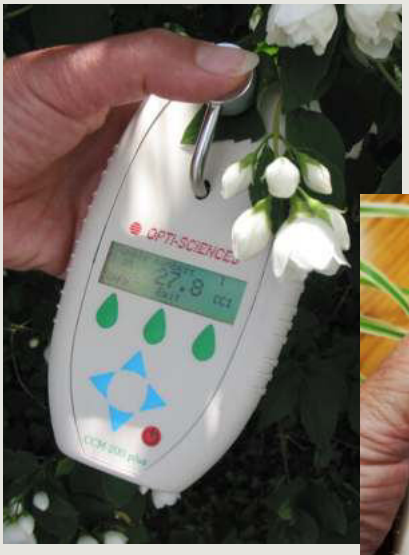
CCM300 GPS
Chlorophyll content fluorometer



Measure very small/thick samples:

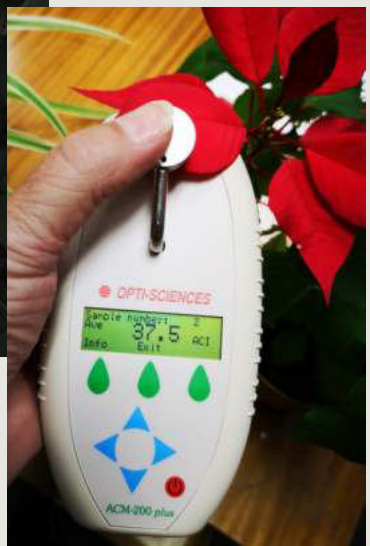
- Conifer needles
- Turf grass
- Seedlings, including Arabidopsis
- Cacti, succulents, Mosses, Algae

CCM200plus GPS
Chlorophyll Content Meter



Accurately determines a relative chlorophyll content index on most broad leaves.

ACM200plus
Anthocyanin Content Meter



Relative anthocyanin measurements

CHLOROPHYLL FLUORESCENCE

OS-30p+

Handheld Continuous Fluorometer

With 10 lightweight, high quality dark-adaption clips for F_V/F_M and OJIP tests. Fluorescence trace displayed.

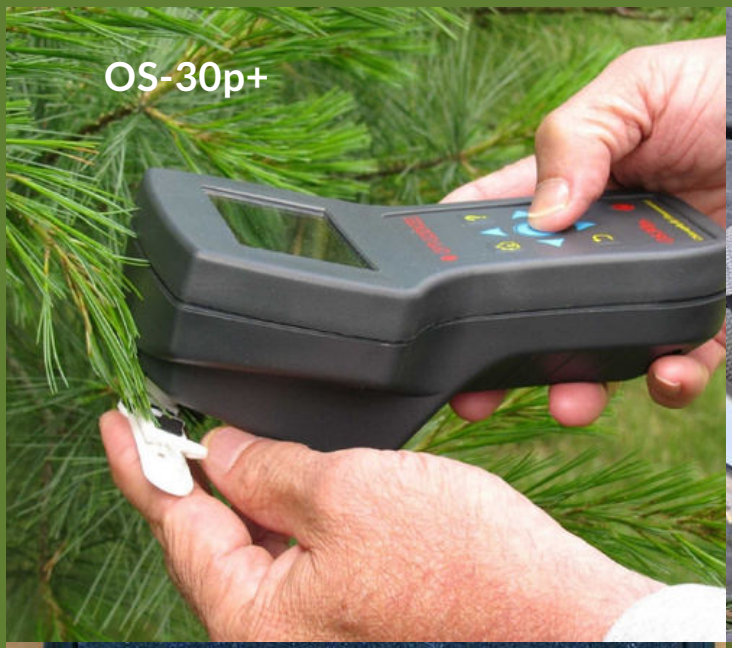
Plant Stress Kit

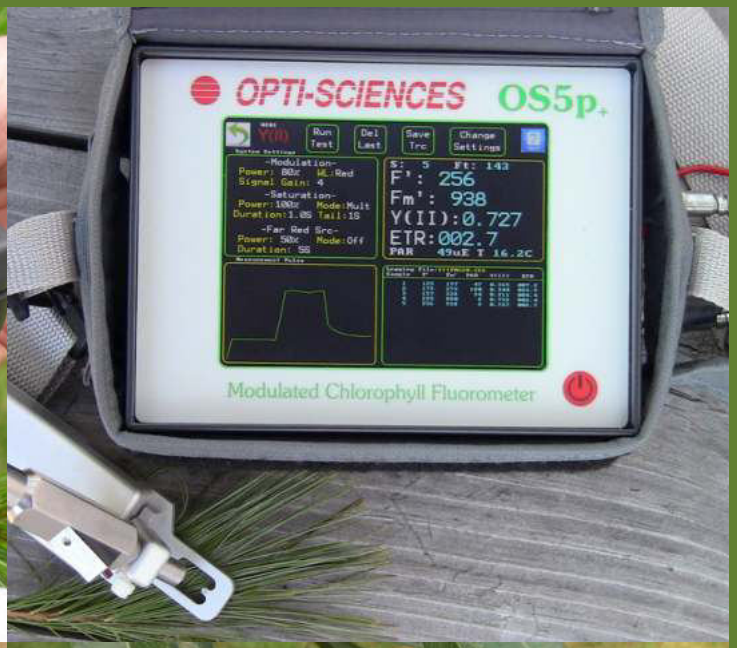
Comprising an expert Fv/Fm and a Y(II) Meter for both light and dark adapted fast tests, in one handy kit. Meters also sold separately.

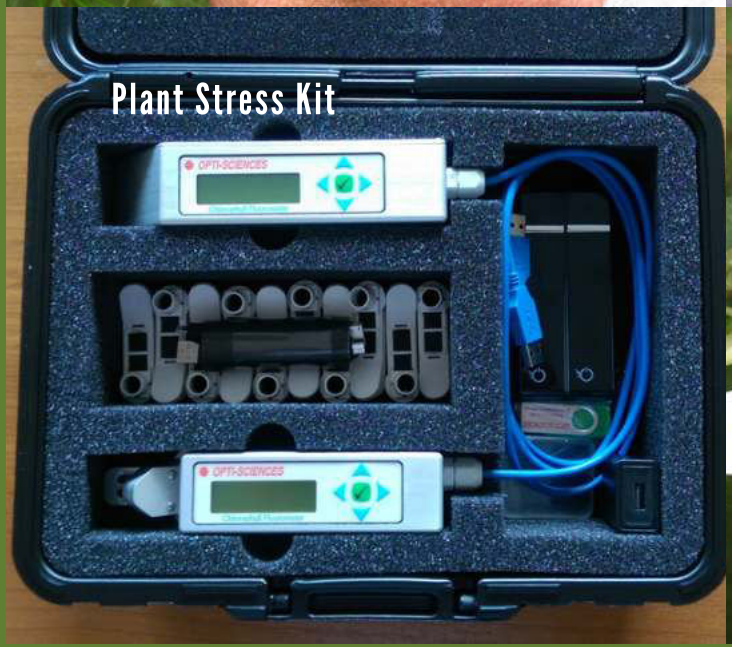
OS5p+

Compact Modulated Fluorometer with PAR/leaf temperature clip for advanced fluorescence research

Both ambient light and dark adaptation parameters determined, including: Fo, Fm, Fv/Fm, Fv/Fo, Y(II), Ft and Fms. Photochemical and non-photochemical quenching coefficients qP, qN and NPQ calculated.







CHLOROPHYLL FLUORESCENCE

PSP32

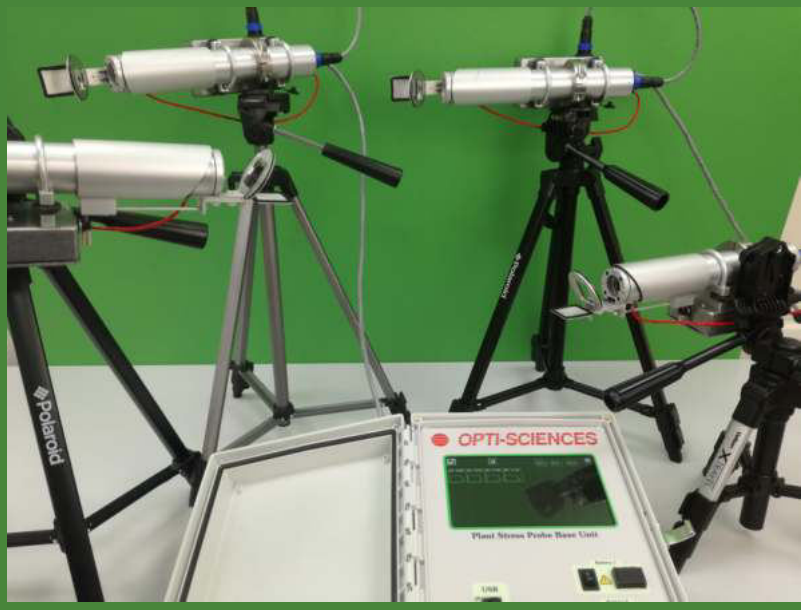
Monitoring Fluorometer System

Continuous, remote sampling and data logging of multiple leaves (max. 32)

Fully automated dark-adaption and light-adapted measurements

Assessment of the photo-protective efficiency of NPQ (Ruban, A.V. 2017)

Detects the widest range of plant stresses; combining probes & sensors



"PSP32 PROVED TO BE A VERY VERSATILE INSTRUMENT"

Ruban, A.V. Ruban Lab Testing, QMUL, 2019

iFL

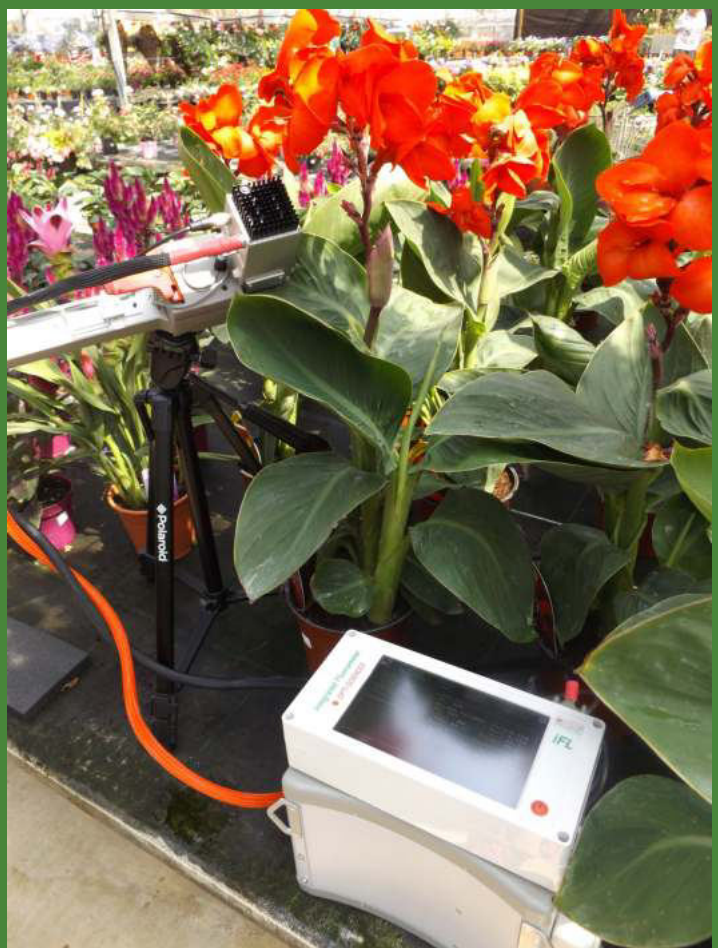
Integrated Leaf Gas Exchange and Fluorescence System

Measure C3 and C4 plant drought stress and heat stress

Measure C3 plant cold stress and CO_2 stress

Measure the light and the dark reactions of photosynthesis, at the same time, over the same area

Integrated data files. Every parameter in one data file

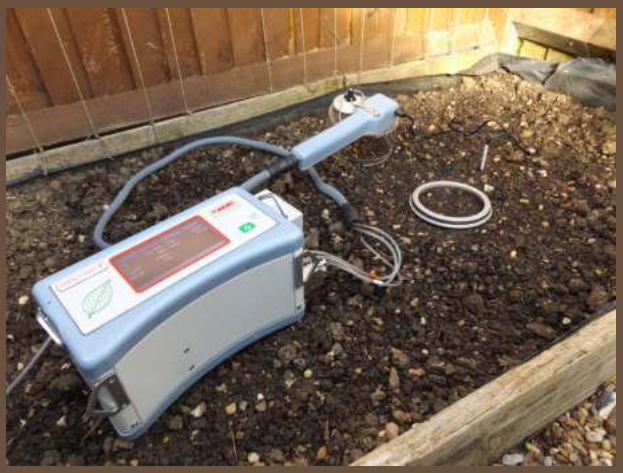


SOIL RESPIRATION

SRS1000 T

Portable Soil Respiration System

An exceptionally easy to use, affordable, soil gas exchange analyser ideal for spatial field studies.



SRS2000 T

Intelligent Soil Respiration System

Ideal for more advanced spatial and/or temporal field studies where chamber climate conditions are controlled.

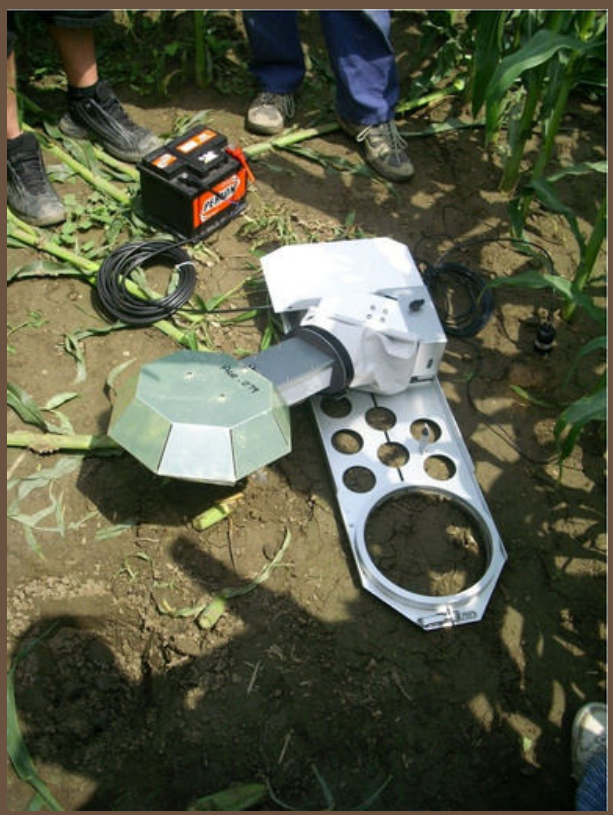
ACE

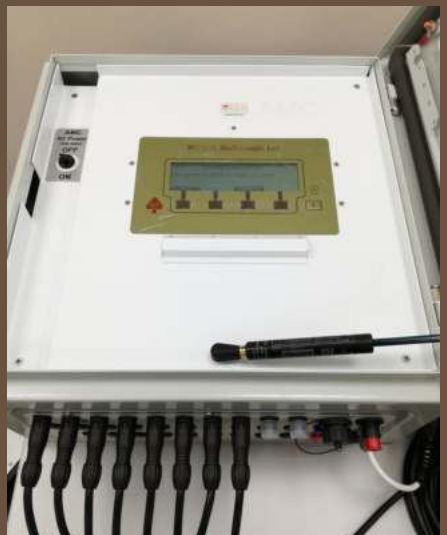
Automated Soil CO_2 Exchange System

Single or networked ACE Stations

Open or Closed system assays

For Long-term, remote monitoring





MULTIPLE SOIL/ ORGANIC SAMPLE GAS EXCHANGE

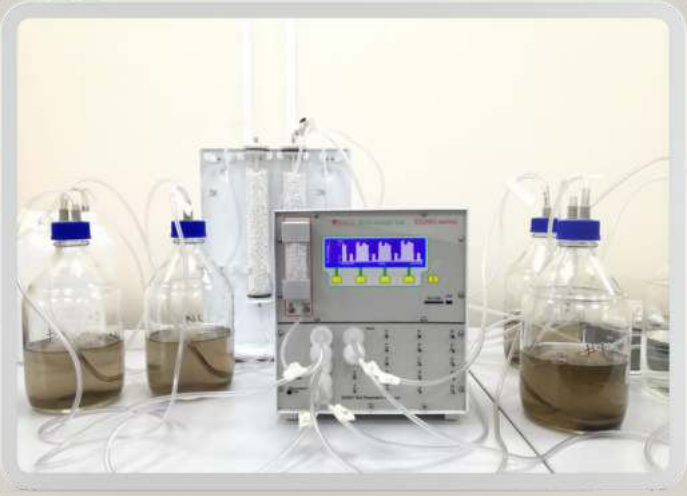
EGA60 Series, Model EGA61

Multi-sample Gas Exchange System

Monitor CO_2 and H_2O in as many as 24 soil or other samples in sequence

Used for ever-expanding applications from soil toxicology testing to biodegradability standard testing.

Lightweight and compact, with wall-mounted/self supporting column racks



WE ARE VERY HAPPY WITH THE EGA61... IT DETECTS CO2 PERFECTLY... SO VERSATILE... UNLIMITED SETUP OPTIONS... EASY TO MOVE AROUND

Karl Flowers, Authenticae, UK

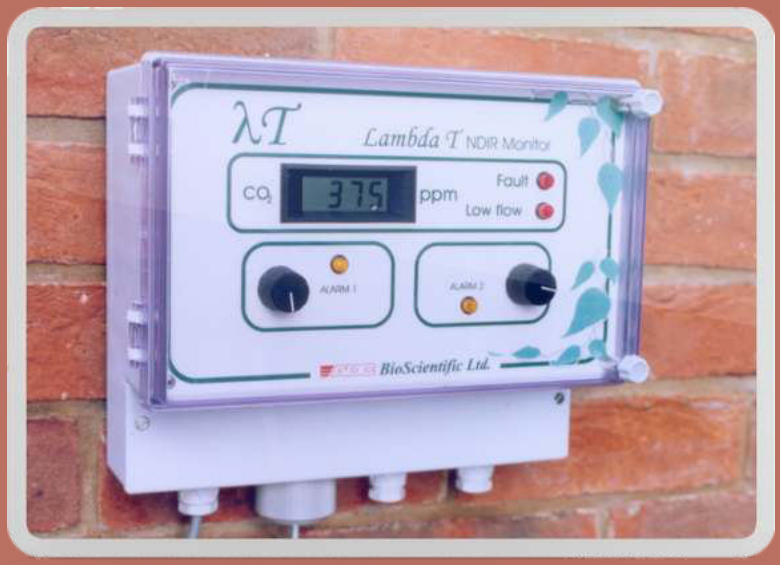
ATMOSPHERE

LAST AVAILABLE STOCK
END OF PRODUCT LINE

LAMBDA T
NDIR Monitor to measure CO_2

2000ppm detection range

Used in greenhouses, laboratories and controlled environment facilities



CONTACT

For pricing and expert, tailored advice.

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