



ADC BioScientific

CATALOGUE 2022

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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, anthocyanin, flavonol content meters.

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

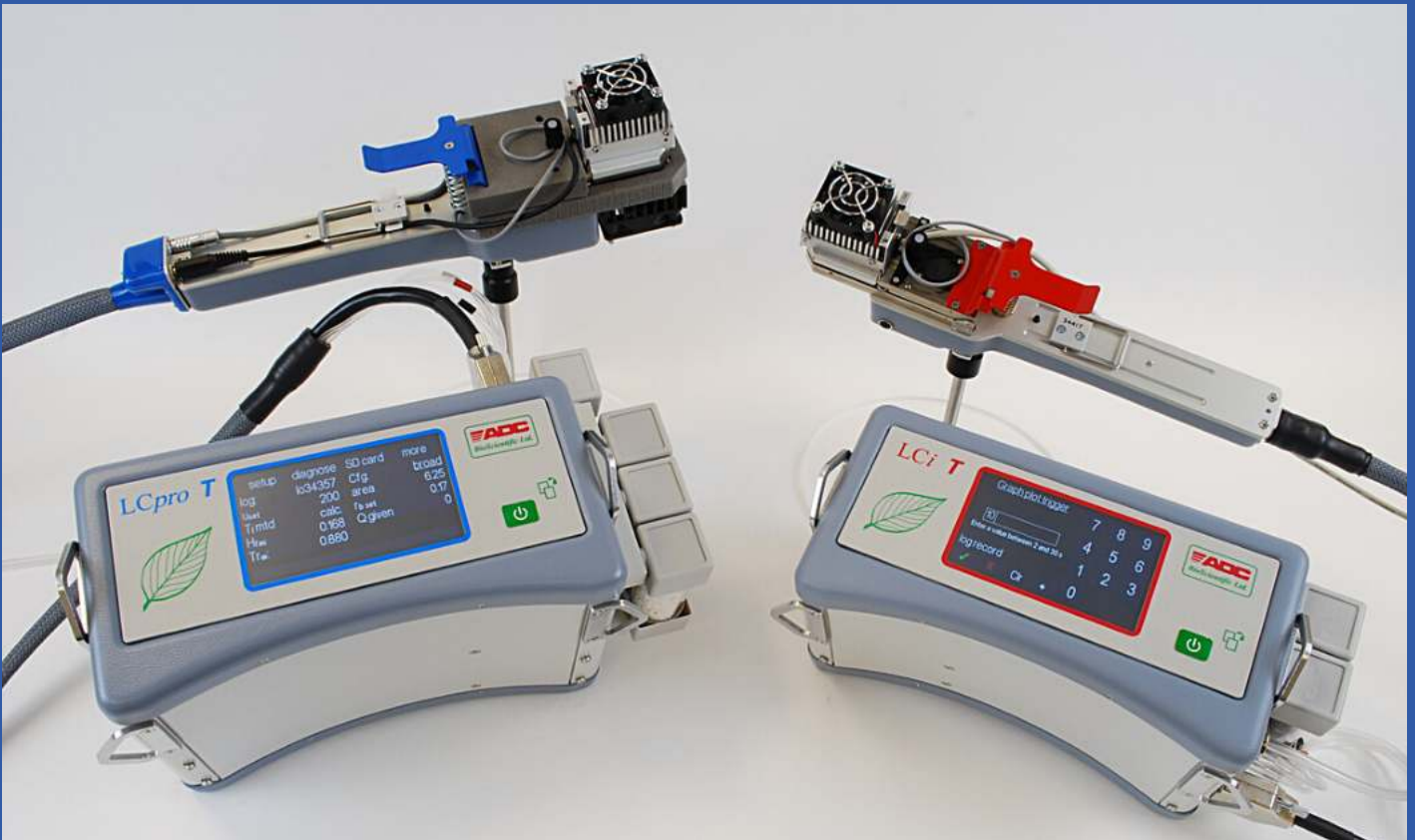


SOIL RESPIRATION

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



LEAF GAS EXCHANGE



LCpro T

Intelligent, Portable Photosynthesis System

- Infra Red CO₂ 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 CO₂ 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

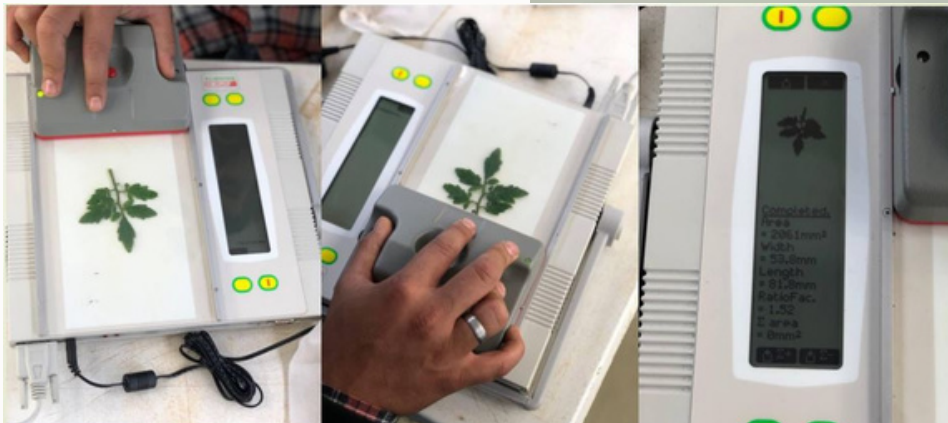
Perimeter

Ratio $R = L / W_m$

Shape factor $F = 4\pi A / P^2$

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.

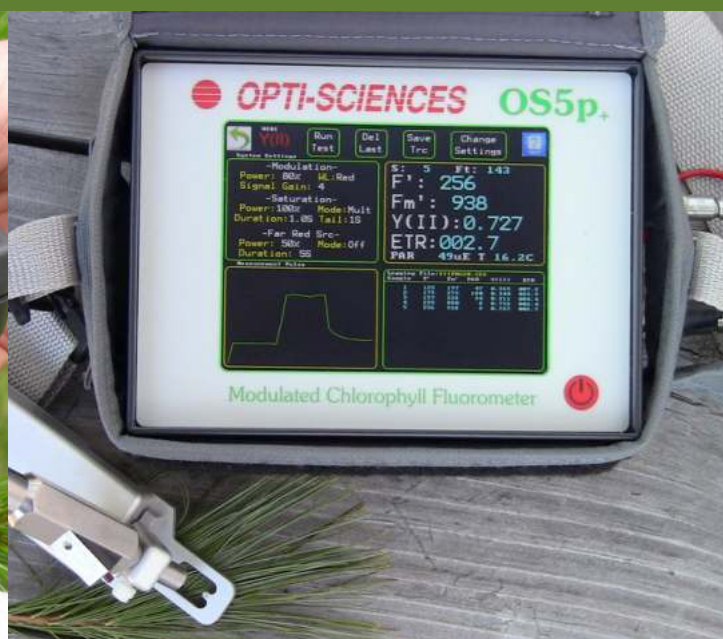
Plant Stress Kit

Comprising an expert F_v/F_m 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: F_o , F_m , F_v/F_m , F_v/F_o , 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 CO₂ 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 CO₂ 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 CO₂ and H₂O 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 CO₂

2000ppm detection range

Used in greenhouses, laboratories
and controlled environment
facilities



CONTACT

For pricing and expert, tailored advice.

A list of global support centres can be found at www.adc.co.uk

Or contact our UK sales and support team via:

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