

Classic Fluorometer, Wireless Standard 50m



Aquation's **Classic Fluorometer Wireless Standard 50m** is designed for deeper or longer-term underwater use. The sensor is controlled via a wireless link, enabling the PC to be kept away from water. The sensor is waterproof to 50m/164ft depth; it is designed for convenient measurement of wet material including aquatic plants and even coral.

Benefits

- Fully waterproof sensor for field applications
- Wireless link enables PC to be kept dry and away from sampling area
- Powered from battery or mains
Repeated measurements are possible when attached to PC or datalogger
- Easy-to-use software with an uncluttered interface
- Extensive programmable capacity in software for advanced users
- Can be used in the field (Pelican or similar waterproof case for netbook and interface box recommended!)

Aquation's Classic Fluorometer Wireless Standard 50 m is a portable and rugged fluorometer for rapid assessment of plant stress both in the field and in the lab.

This Classic Fluorometer measures the quantum yield of PSII photochemistry using a modulated multiple-turnover technique.

Chlorophyll-containing samples are simply placed against the sampling window for single or repeated measurements. Firstly establish a suitable gain setting with a sample leaf or sample, and a zero offset value in air or water.

An optional clear light pipe extension enables measurement of samples 0.5m from the sensor. This is particularly useful for long term measurements where shading of the sample must be avoided.

The Classic Fluorometer Wireless Standard 50m is operated from a PC via a wireless link.

See over for further detail.

Field Studies



Pollution Studies



Plant Stress Analysis



Environmental Analysis





Classic Fluorometer Wireless Standard 50m

Features and Specifications:

- Chlorophyll fluorometer for plant physiology and chlorophyll content studies
- Measures variable fluorescence of photosystem II
- Returns F_0 , F_m and F_v/F_m values
Calculates relative chlorophyll index that correlates with chlorophyll concentration
- Measures temperature in sensor
Flexible and uncluttered software is easy to use
- User manual and software supplied
- Wireless connection to PC
Fluorescence sensor with cable located at base of unit
- Waterproof to 50m/164ft, recommended depth to 20m
- Unit of measure: relative fluorescence units
- Range: 0-4000
- Automatic ranging and autozero functions
Relative chlorophyll index (function of gain and F_0)
- Temperature in $^{\circ}\text{C}$ Light sources: 470nm LED (excitation), white (saturation and actinic), 735 nm (far red)
- Sensor housing: acetal, stainless steel 316
- Interface enclosure: strengthened aluminium
- Maximum immersion depth of sensor: 3m/10ft depth
- Weight: Sensor and cable ~300g/10.5oz
- Dimensions: Interface 130 x 65 x 30 mm; Sensor 45 (diameter) x 60 mm long
- Voltage: 110-240V 50-60Hz, 12-24VDC

AquationDirect provides three levels of control:

“Profile” defines settings for each measurement (measuring light intensity, saturating pulse intensity etc.).

“Program” defines a sequence of yield measurements, actinic treatments and far-red light treatments. The intensity and duration of each light can be defined. A Light Curve and Recovery Curve generator provides flexible generation of curves with user defined actinic intensities and durations. Even reverse light curves can be defined if required.

“Schedule” simply schedules a series of Programs over 24 hours. For example one may wish to run different programs during the early morning, midday, afternoon and night time.



Classic Fluorometer Sensor
with submersible cable,
Standard 50 m



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