

## Classic Fluorometer Benchtop



Aquation's **Classic Fluorometer USB Benchtop** is designed for use on a flat surface, and can also be used in the field. The water resistant design enables convenient measurement of wet material including aquatic plants, algae and wet leaves. The small size of the sensor makes it easy to use in the field.

### Benefits

- Fully waterproof for field and wet-lab applications
- Convenient flat base for use on flat surfaces
- 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
- Portable unit is ideal for field work (netbook recommended!)

**Aquation's Classic Fluorometer USB Benchtop is a portable and rugged fluorometer for rapid assessment of plant stress both in the field and in the lab.**

On commencing measurements, one establishes a suitable gain setting with a sample leaf and a zero offset value in air or water. Chlorophyll-containing samples are then simply placed over the sampling window for single or repeated measurements.

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 USB Benchtop is designed to be operated from a PC (Windows XP and later) via a standard USB cable. Both the power supply and computer are connected to the interface enclosure. A water resistant cable runs from this enclosure to the fluorescence sensor.

All items are contained in a lightweight carry case that is small enough to fit in a shoulder bag.

*See over for further detail.*

#### Field Studies



#### Pollution Studies



#### Plant Stress Analysis



#### Environmental Analysis





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### Features and Specifications:

- 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 306
- Interface enclosure: strengthened aluminium
- Maximum immersion depth of sensor: 3m/10ft depth
- Weight: Sensor and cable 250g/8.8oz
- Dimensions: Interface 5"x2.5"x1.2"; Sensor 1.8" diameter, 2.4" long
- Voltage: 110-240V 50-60Hz, 12-24VDC

Aquation Direct is the proprietary software used to communicate with the fluorometer.

The simple uncluttered approach hides features when they are not required, providing a more enjoyable user experience.

There are 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, where one may wish to run different programs during the early morning program, midday, afternoon and night time.

