

Pine Environmental

STS SMF 4 Fluorimeter

Pine Item #51685

DESCRIPTION:

Quick and Easy Detection of Organic Pollutants

The STS SMF4 Fluorimeter allows instant quantification of Tryptophan, a surrogate for BOD, in water samples on-site, allowing immediate decisions to instant readings on-site without laboratory analysis costs and timescale took regarding water quality and control actions.

The great benefit of the SMF4 is the speed of measurement enabling large surveys to be undertaken, recorded, and analyzed within a matter of hours, whilst also giving real-time information on immediate pollution issues.

The design of the SMF4 draws heavily on the research carried out by Prof Andy Baker and his team at the University of New South Wales & formerly Birmingham University (UK), who showed that Tryptophan is an excellent indicator of anthropogenic pollution and that its measurement by fluorescence was straightforward. Further research allowed strong correlations to be made between tryptophan and the standard Biological Oxygen Demand test, but with an instant result rather than a 5-day delay.

FEATURES:

- Instant readings on site without laboratory analysis costs and timescale
- Identify fecal pollution instantly without a five day BOD test
- Data logging & remote monitoring capabilities
- Easy to use no special training required
- No consumables or reagents required
- Faster and easier method to locate/track illicit discharges

APPLICATIONS:

- Water Monitoring
- Wastewater Monitoring
- Recycled Water Analysis
- Rain Water Sewer Systems



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Product Specifications

Dimensions	Size including carrying handle 18 x 30 x 15 cm. Weight including batteries 2.2 Kg. Splash proof sealing
Data Input	Will allow specific sample number and location information to be attached to a sample record. Each sample captures a unique ID number, date, time and reading in addition to the 2 user definable parameters.
Set Sensitivity	The instrument has 3 sensitivity settings accommodating a wide range of Tryptophan concentrations. Concentrations can be measured from 0.025ppm to 25.0ppm Tryptophan.
Backlight	May be set to desired intensity as light conditions require and will automatically be turned off after 5 minutes of inactivity to preserve battery life.
Auto Sampling	Using a flow cell and pump the instrument may be set up to carry out a series of measurements over a specified period at user defined intervals. The results may be written to either the internal memory or to an external data logger.
Internal Memory	May be downloaded via an RS232 port. A 9 pin RS 232 to RS232 / USB output is provided to connect the SMF4 to either a PC or data logger. PC requires Windows 98/2000/XP/7. The internal memory may also be cleared using the download function.
Battery Information	The SMF4 is powered by NiMH rechargeable batteries, which give a useful operating period of approx. 30hrs with the backlight on. When logging in sleep mode at hourly intervals the battery life is approximately 4 weeks. Approx. 8hrs full recharge time required using provided charger. Battery life is shown by a battery level indicator icon on the LCD display.
Sample Cell	Cell holder accepts standard fluorescence cells of 10 x 10 x 40 mm either Quartz or UV Plastic Cell holder and cover will accommodate flow through cells for auto sampling.



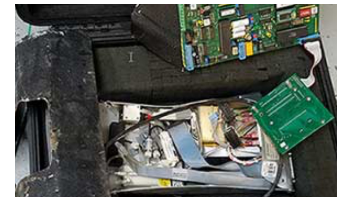
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