Online Biomonitoring with bbe Toximeters

Toxicity tests are mainly based on the survival of organisms in the presence of test material. Static tests permanently expose the organisms to a series of dilutions over 24 or 48 hours. Dynamic tests, on the other hand, shorten the test procedure and allow continuous monitoring of the water source. The registration of complex behaviour patterns of the organisms further reduces the response time for alarm evaluation. Automatic unmanned surveillance is achieved by use of the unique bbe alarm software thus reducing running costs. bbe toximeter instruments are very reliable and require relatively little maintenance.

The Measurement of Chlorophyll-a from Phytoplankton using bbe Fluorometers

The common way to carry out measurements for chlorophyll used to be to collect samples and use extractive analysis in a laboratory, or take large, very bulky equipment to the field. Extractive analytical methods, though highly accurate, are usually time-consuming and require an experienced analyst. This has now become much more convenient via the use of the a submersible depth profiler: the bbe FluoroProbe.

It is quick and efficient to use, and enables spot sampling in remote areas, uses technology similar to that used by common fluorometers, but is more versatile, due to its application as an instrument for the advanced analysis of different algae classes. It is designed to estimate phytoplankton concentrations by detecting the fluorescence from chlorophyll in situ, at different depths and in real time. The FluoroProbe can be converted to a BenthOFluor using two different adapters or used in the lab using the Workstation 25.

bbe's other algae analysers are valuable tools in the evaluation of the status of water quality according to the EU Water Framework Directive.