



Innovation in Environmental & Process Technology

We **Understand** Water & Waste Water Monitoring

BBE Algae Guard

Features:

- Total Chlorophyll-a determination
- Quantification of algal classes: green, blue-green (cyanobacteria), brown (diatoms and dinoflagellates) and cryptophyceae
- Yellow substances detection
- Automatic cleaning
- 4 integrated relays
- Optional 4-20 mA outputs
- Optional Modem
- RS232 interface
- Touchpad display
- Optional operation with PC for extra functionality



Algae guard

Benefits:

- Plug & play operation
- Immediate real time data
- No special skills required
- No chemicals or reagents
- Minimal maintenance requirement
- May be used to control abstraction
- pumps and raise alarms

Total Chlorophyll with
Algal class differentiation

Applications:

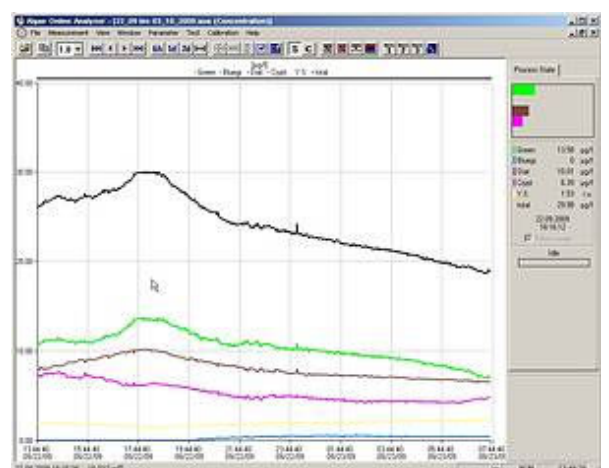
- Abstraction monitoring
- Lake & river monitoring
- Power plant monitoring
- Environmental monitoring
- Research & development



Touch screen display



Algae guard sensor



Alarm and graphical displays

Contact us for more info:

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The **Algae Guard** is a simplified version of the Algal on line analyser from BBE. It is a continuously operating online fluorometer. The sample is irradiated by 6 LEDs of different wavelength emissions and the algal fluorescence at each wavelength measured. The spectra are mathematically processed using multiple linear regression techniques to give the best estimate of the amount of different algal classes present together with the total Chlorophyll a from all algal sources. Yellow substances, which also fluoresce are measured with an extra LED and the results compensated for this fluorescence. Data is not stored and graphical representation is not available in the basic machine, however it may be connected to a PC running the AOA software which will then provide these facilities if required.

Technical Data

Type:	On line multi wavelength
Optics:	6 LED light sources with photomultiplier detector
Measurands:	Total chlorophyll [g chl a/l] Concentration of green algae [g chl a/l] Concentration of blue green algae [g chl a/l] Concentration of diatoms [g chl a/l] Concentration of cryptophyceae [g chl a/l] Yellow substance correction
Measuring range:	0-200 µg chl a/l
Resolution:	0.05 µg chl a/l
Weight :	16 kg
Housing protection:	IP54
Size (H x W x D):	420 x 520 x 200 mm
Power supply:	110/230 V @ 50/60 Hz or 110 V / 60 Hz
Power input:	30 W
Sample temperature:	0 40° C
Sample volume:	30 ml
Display:	Touch screen
Interface:	RS232, MODBUS
Optional interfaces:	up to 16 x 4-20mA (analog) and 16 digital outputs
Maintenance interval:	>7 days

Optional

Please indicate

1. What digital and analogue outputs are required
2. Whether a weather proof housing is required
3. Whether PC operation is required