

3S-BGA Blue Green Algae Sensor

Compact online sensor for blue-green algae determination

APPLICATION FIELDS

• Determination of blue-green algae in water as a method to estimate and monitor the total concentration of algae in rivers, lakes, ponds, sea water, marine surveys, aquaculture, drinking water sources and other fields of algae and phytoplankton monitoring.



ADVANTAGES / FEATURES

• Compact design, sturdy build

Great responsiveness in a small volume. The probe can be easily installed directly in tanks, ponds, reservoirs or inside the dedicated circulating vessel.

The titanium enclosure makes the sensor robust and durable even in the most challenging environments.

• Low operating costs

Minimum maintenance necessary thanks to the automatic cleaning wiper.

No reagents or filling solutions are needed.

• Wide measuring range, low detection limit

Detection limit of 300 cells. Determination range up to 300,000 cells/ml. Upon request range can be extended to 0 - 2 million cells/ml.

• Measurement principle

The sensor is based on the fluorescence photometric determination of chlorophyll dissolved in water. The external probe is installed in a sample reservoir and measurements are taken on the circulating sample flow.

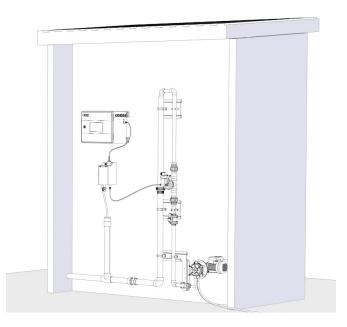
• Easy installation

The sensor can be installed in a flow cell or with an immersion pole/pipe directly in the sample tank.

TECHNICAL SPECIFICATIONS

INSTALLATION EXAMPLE

Blue-green algae, number of cells/ml
Fluorescence photometry.
0 - 300,000 cells/ml
1 cell
300 cells
≥ 1 s
Pressure-free vessel (up to 3 bar) Temperature: 0 - 50 °C (32 - 122 °F)
Ø 45 mm, L 190.8 mm
Approx. 1 kg (2.2 lbs)
Titanium
Voltage: 5 - 12 VDC Power consumption: max. 0.5 VA
Modbus via RS485
2 SPDT programmable potential free relays
0 - 50 °C (41 - 122 °F)
Flow cell, immersion pipe or brackets (optional accessories)
IP68



The analyzer is easily installed in a minimum amount of wall space.

In the picture are included the optional accessories: a) 3S-PC1000 probe controller b) A46SF10020 - Filtration unit 100 micron 230 VAC

c) A46SPP0000 - Sampling Pump

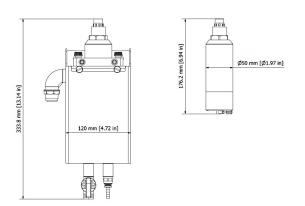


3S-BGA installation with 3S-PC1000 controller, ABS probe holder and flow sensor. Please see the 3S-PC1000 manual for reference.



The probe is installed in the provided Fast Loop sample reservoir, protected from external light and easily accessible for cleaning and maintenance.

TECHNICAL DRAWINGS



PRODUCT CODES

A46U10034 3S-PC1000 A46ERLSPVC 3S-BGA Blue Green Algae Sensor Made of Titanium Probe controller with color touch screen PVC continuous flow D.45 sensor holder