

CROSS SMART SENSOR

FA7-BA: Cyanobacteria (Blue-green Algae)

Digital technology for optimized measures



FA7-BA Cyanobacteria (Blue-green Algae) sensor uses fluorescence approach to measure cyanobacteria concentrations in water. When cyanobacteria are excited by a high-energy LED light source of 590nm, it produces a specific wavelength fluorescence which based on its spectrum absorption characteristics, can be used to detect cyanobacteria concentrations in water.

FA7-BA sensor is particularly suitable for scientific research as well as for online water quality monitoring of ground water, surface water and other water applications.

FEATURES AND BENEFITS

- ❖ In-situ monitoring
- ❖ High sensitivity, fast response, stable and reliable
- ❖ Range adjustable, automatic daylight compensation
- ❖ Low power consumption, easy operation and maintenance
- ❖ Digital transmission, anti-interference ability
- ❖ Integrated sensor design, submersible to operate down to 300 meters.
- ❖ Optional Clam-on wiper for automatic self-cleaning



APPLICATIONS:

Lake, reservoir, underground, river and coastal water

Algae are an important quality component in water bodies. Algae are photosynthesizing organisms and are the foundation of most aquatic food webs; however, some algae (e.g. phycocyanin or blue-green algae) can produce algal toxins. The presence of algal toxins in water bodies has important implications for humans, as well as aquatic organisms. Measuring chlorophyll in water is important to estimate the abundance of blue-green algae. If a high level of chlorophyll is detected, it is a direct indication that a high level of blue-green algae is present in the water. Please check for accuracy.

SPECIFICATIONS	
Measuring system	Light Source: LED (590 nm) Detector: Photo diode + filter (655 nm)
Principle	Fluorescence
Measuring range	0 to 200 ppb Typical
Accuracy	± 3 %
Respond Time	T90 < 10s
Measuring Interval	5 s
Operate Pressure	3 bar, 1 bar in Flow cell 2 to 4 L/min
Operate Temp.	32 to 104 °F (0 to 40 °C)
Power	9 to 36 VDC, Max. 1 W
Digital Interface	RS485 Modbus RTU
Housing	Material: 316L, Titanium is Optional
Auto Cleaning	Optional Clamp-on Wiper
Protection Rate	>IP68, submersible
Dimension	Dia. 2" (50.8 mm), Length 9" (229 mm)
Weight	4.6 lbs (2.1 kg) with 30" Cable

ORDER CODE

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	Measuring Range	
	-1 0 to 200 ppb	Other range contact factory.
	Cable Length	
	-C10 10' (3 m) cable -C20 20' (6 m) cable	Other length contact factory.
FA7-BA	-1	-C30

TERMINALS

<p>GDC-01/02 Terminal Single or dual-channels</p> 	<p>GDC-04/06/08 Controller Multi-channels up to eight</p> 	<p>GDC-Ex Terminal Single channel Ex-proof</p> 
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DELTA-PHASE ELECTRONICS, INC.