

# Total Algae Sensors

SPECIFICATIONS #O100

Harmful algal blooms  
are **more frequent**  
and **more intense**  
than ever before.

AVAILABLE  
ON OUR  
**INDUSTRY  
LEADING**  
MULTIPARAMETER  
PLATFORMS



HABs are now seen as a public threat, and water managers need reliable tools for monitoring.

YSI's **Total Algae Sensors** are the most sensitive tools available, helping you to monitor, mitigate, and manage the impacts of harmful algal blooms.



**EARLY DETECTION  
IS YOUR  
BEST DEFENSE**

## Our dual-channel sensor can help you to:



Detect the onset of an algae bloom as early as possible to plan your response



Support a rational approach for the collection of samples for other laboratory analyses, saving you time and money



Understand the seasonal and weather-related patterns of algae growth in your system



Understand the relevance of other parameters like pH, dissolved oxygen, and temperature





# TOTAL ALGAE SENSORS

TAL-PC sensors detect chlorophyll and **phycocyanin**, and are ideal for monitoring **freshwater** cyanobacteria

TAL-PE sensors detect chlorophyll and **phycoerythrin**, and are ideal for monitoring **marine** cyanobacteria

## Total Algae Sensor Specifications

Chlorophyll (all sensors)	Range	0 to 100 RFU or 0 to 400 µg/L chl
	Accuracy	Linearity: $r^2 \geq 0.999$ for Rhodamine WT across full range
	Resolution	0.01 RFU or 0.01 µg/L chl
Phycocyanin (TAL-PC sensors)	Range	0 to 100 RFU or 0 to 100 µg/L PC
	Accuracy	Linearity: $r^2 \geq 0.999$ for Rhodamine WT across full range
	Resolution	0.01 RFU or 0.01 µg/L PC
Phycoerythrin (TAL-PE sensors)	Range	0 to 100 RFU or 0 to 280 µg/L PE
	Accuracy	Linearity: $r^2 \geq 0.999$ for Rhodamine WT across full range
	Resolution	0.01 RFU or 0.01 µg/L PE

## Additional Specifications

Operating Temperature	-5 to 50°C
Storage Temperature	-20 to 80°C
Depth Rating	100 m (ProDSS), 250 m (EXO)
Warranty	2 years
Compatible With	ProDSS, EXO

## Ordering Information (order items separately)

626210	Total Algae-Phycocyanin (TAL-PC) for ProDSS
626211	Total Algae-Phycoerythrin (TAL-PE) for ProDSS
599102-01	Total Algae-Phycocyanin (TAL-PC) for EXO
599103-01	Total Algae-Phycoerythrin (TAL-PE) for EXO



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