

Total Algae Sensors

CHLOROPHYLL AND PHYCOBILIN DETECTION



**EARLY DETECTION
IS YOUR
BEST DEFENSE**

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

HABs are a threat to public health, the environment, and economies worldwide. YSI's **Total Algae Sensors** are for early detection, enabling rapid response and management.

Our dual-channel sensor can help you to:



Take action as early as possible for mitigating HAB impacts



Plan a rational approach for sample collection, saving time and money



Understand the seasonal and weather-related patterns in your system



Understand the relevance of other parameters like pH, DO, and temperature



a xylem brand

Total Algae Sensors



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

TOTAL ALGAE SENSORS

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

ProDSS
D-I-G-I-T-A-L Sampling System

AVAILABLE ON OUR
INDUSTRY LEADING
MULTIPARAMETER PLATFORMS

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	YSI.com/Pro/TALPC
626211	Total Algae-Phycoerythrin (TAL-PE) for ProDSS	YSI.com/Pro/TALPE
599102-01	Total Algae-Phycocyanin (TAL-PC) for EXO	YSI.com/EXO/TALPC
599103-01	Total Algae-Phycoerythrin (TAL-PE) for EXO	YSI.com/EXO/TALPE



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