

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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the Planet?®



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