

Product group: 669 Product number: 777848

Ballast-Check 2 is a multiple turnover Pulse Amplitude Modulated (PAM) fluorometer that provides a rapid, indicative analysis of the Abundance and Activity of algae in ballast water samples.

The instrument is configured to provide ship operators with a rapid, indicative determination of whether treated ballast water is at risk of non-compliance with the IMO and USCG, D2 quality standard.

Please refer to the User Manual for more details.



Product information

Ballast Check 2 measures algae in the 10 to 50um range.

Abundance of Algae

Ballast-Check 2 is configured for detecting chlorophyll fluorescence from live algal cells. Light from the fluorometer is absorbed by algae, which causes the cells to fluoresce. Fluorescence emitted by the cells is detected, quantified, and displayed as a digital number estimating the abundance of algae in the sample as cells/ml for 10 - 50 micron sized cells. The Ballast-Check 2 has a set threshold value of 10 cells per ml. When the measured Abundance of algae is greater than or equal to the set threshold, this indicates a high risk that algae may be in gross exceedance of the discharge standard.

Activity of Algae

Ballast-Check 2 uses two measuring LEDs to estimate photosynthetic efficiency (viability). The first LED (monitoring) is used to excite the sample with very low light intensity so as not to induce a change in chlorophyll reaction centres. While continuously monitoring the sample using the monitoring LED, the second LED (saturating) blasts the sample with a high intensity of light to bring algae to a higher fluorescence state (Fm). The difference between the monitoring LED's measurement of the maximum (Fm) and minimum (Fo) fluorescence states is called variable fluorescence (Fv). The ratio (Fv/Fm) is a good measure of the algal activity, which is measured as a ratio between 0.01 and 0.75.

Coupled with the WSS Potable Water Test Kit enables you to implement an on board monitoring programme for your Ballast Water quality.

Features

- Rapid, indicative test
- Hand held instrument
- Easy to use, results in a minute
- Measure of gross non compliance
- No chemical reagents are required

Benefits

- Low cost of operation
- Enable you to make quick adjustment decisions
- Improves control of your Ballast Treatment system
- Helps you to maintain compliance

Specification

General

Invent Hazard Material (IMO/IU) classification	C-9
--	-----

Documents

[WSS-Ballast-Check-2-Quick-Start-Guide-Rev-1-5th-Sept-2016](#)

[WSS-BallastWaterTesting-A4-FINAL](#)

[WSS Ballast Check 2 Manual](#)

[SDoC and MD for IHM](#)

Related products

Accessories

- 778419
POTABLE WATER TEST KIT
- 777932
E.COLI/COLIFORM (25 TESTS)
- 778416
INTESTINAL ENTEROCOCCI (20 TEST)
- 735175
10MMX10MM SQUARE CUVETTES

Is consumable by

779166
BALLASTGUARD SBS 40 25 LTR

779162
BALLASTGUARD STS 30 25 LTR

779136
BALLASTGUARD SBS 40 200 LTR

Is frequently bought together with

739490
SPECTRAPAK 315

777934
CHLORINE DPD NO 1 (FREE) 250 TESTS

607801
CONDUCTIMTY METER PEN MODEL

778421
CHECKIT FREE CHLORINE DISC

777935
CHLORINE DPD NO.3(TOTAL)(250 TESTS)