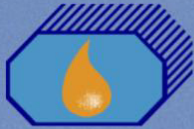


DECKMA HAMBURG GmbH

DECKMA Decksmaschinen und Automation Vertriebsgesellschaft in Hamburg mbH



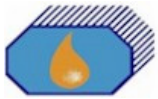
DECKMA HAMBURG GmbH

15ppm Bilge Alarm OMD-2005

Tested to Regulations of IMO Resolution MEPC. 107 (49)

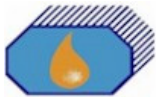


We help to protect the Environment



SPECIFICATION OMD-2005

Range:	0 – 30 ppm
Accuracy	According IMO MEPC. 107(49)
Linearity	Up to 30 ppm better than $\pm 2 \%$
Display	Green Graphic Display
Power Supply:	24 V – 240 V AC or DC Automatic Voltage Selection
Consumption:	< 15 VA
Alarm Points 1 + 2:	Adjustable between 1 - 15 ppm (Works adjustment 15 ppm)
Alarm 1 Operating Delay: (for annunciation purpose)	Adjustable between 1 – 540 sec. (Works adjustment 2 sec.)
Alarm 2 Operating Delay: (for control purposes)	Adjustable between 1 – 20 sec. (Works adjustment 10 sec.)
System Fault Alarm:	Red LED
Alarm Contact Rating:	Potential free 1-pole change over contacts, 3 A / 240 V
Alarm Indication:	Red LED's
Output Signal:	0 – 20 mA or 4 – 20 mA, reversible ext. Load < 150 Ω
Sample Water Pressure:	0,1 – 10 bar
Sample Flow:	Approx. 0,1 - 4 l/min. depend. to pressure
Ambient Temperature:	+ 1 to + 55° C
Sample Water Temperature:	+ 1 to + 65° C
Roll:	Up to 45° C
Size (over all):	360 mm W x 240 mm H x 100 mm D
Degree of Protection:	IP 65
Weight:	7,3 kgs
Pipe Connections:	R ¼" Female



See-Berufsgenossenschaft
Prüf- und Zertifizierungsstelle
im BG-PRÜFZERT

European notified body
Identification number 0736

EC-Type Examination (Module B) Certificate

Certificate-No. **320.028**

Name and address of the manufacturer: **DECKMA Hamburg GmbH, Kieler Straße 316, 22525 Hamburg, Germany**

Date of issue: **29.09.2004**

Annex A.1 Item No & Item designation: **A.1/2.3 - Oil-content meters**

Product designation: **Oil-in-water monitor**

Product Type: **OMD - 2005**

Intended purpose: **Oil content meter (15-ppm alarm) for oily water separating equipment on sea going vessels acc. MARPOL 73/78, Annex I**


Testing based on (Specific standard): **IMO Resolution MEPC.107(49) for oil content meters and oily water separating equipment in acc. with MARPOL 73/78, Annex I, Reg. 16**

Remarks: **Only quick separating cleansers are to be used.**

The type tested was found to be in compliance with the Marine-pollution prevention requirements of Marine Equipment Directive (MED) 96/98/EC as amended by Directive 2002/75/EC subject to any conditions in the schedule (part of this certificate).

This certificate may only be used in connection with module(s) **D or F or E** of this directive.

Expiry date: **30.09.2009**


Signature (Schreiber)

The approval of the installed equipment will be in force beyond the validity date until it is revoked!

Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.

Note 2: Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply.

Note 3: The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.



xxxx/yy

Note 4: "Wheelmark" Format

YY Last two digits of year mark affixed.

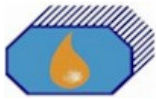
XXXX Notified Body number undertaking surveillance module



Postal address:
Postfach 11 04 89
20404 Hamburg

Office:
Reimerstwiete 2
20457 Hamburg

Tel: 0 40/3 61 37-0
Fax: 0 40/3 61 37 2 04
In any case, the German original shall prevail.



TYPENZULASSUNGSZEUGNIS für 15 ppm Bilge Alarm

*Certificate of Type Approval for
15 ppm Bilge Alarm*

Ausgestellt im Namen der Regierung der
BUNDESREPUBLIK DEUTSCHLAND
durch die **SEE-BERUFSGENOSSENSCHAFT**
*Issued under the authority
of the Government of the FEDERAL REPUBLIC OF GERMANY
by See-Berufsgenossenschaft*

Hiermit wird bescheinigt, dass der 15 ppm Bilge Alarm, die nachstehend aufgeführten Anlageteile umfasst, einer Prüfung unterzogen und gemäß den Anforderungen der technischen Beschreibung, enthalten in Teil 2 der Anlage zur Empfehlung der IMO-Entscheidung MEPC.107(49), erprobt wurde.

This is to certify that the 15 ppm Bilge Alarm, comprising the equipment listed below, has been examined and tested in accordance with the requirements of the specifications contained in part 2 of the annex to the Guidelines and Specifications contained in IMO-Resolution MEPC.107(49).

Dieses Zeugnis ist nur für nachstehendes Ölgehaltsmessgerät gültig.

This certificate is valid only for the 15 ppm Bilge Alarm referred to below.

15 ppm Bilge Alarm geliefert durch: **DECKMA HAMBURG GmbH, Kieler Straße 316, D-22525 Hamburg,**
15 ppm Bilge Alarm supplied by:

Typbezeichnung: **OMD 2005**

under type and model designation and incorporating:

Die Analyse-Einheit des 15 ppm Bilge Alarms wurde hergestellt durch: **DECKMA HAMBURG GmbH**

15 ppm Bilge Alarm analysing unit manufactured by:

Zusammenstellungszeichnung Nr.: **10750-10, 10750-50** Datum: **13.09.2004**
to specification/assembly drawing No.: **DH75300 / DH75600, DH75610** *date:* **24.06.2004/09.09.2004**

Der elektronische Teil des 15 ppm Bilge Alarms wurde hergestellt durch: **DECKMA HAMBURG GmbH**

Electronic section of 15 ppm Bilge Alarm manufactured by:

Zusammenstellungszeichnung Nr.: **10750-10, 10750-50** Datum: **13.09.2004**
to specification/assembly drawing No.: **DH75100 / DH75200, DH75300** *date:* **24.06.2004/09.09.2004**

Versorgungspumpe hergestellt durch: **-**

Sample feed pump manufactured by:

Zusammenstellungszeichnung Nr.: **-** Datum: **--**
to specification/assembly drawing No.: *date:*

Probenaufbereitungseinheit hergestellt durch: **--**

Sample conditioning unit manufactured by:

Zusammenstellungszeichnung Nr.: **-** Datum: **--**
to specification/assembly drawing No.: *date:*

Der 15 ppm Bilge Alarm ist für die Verwendung gemäß Regel 16(5) geeignet.

The 15 ppm Bilge Alarm is acceptable for use in accordance with regulation 16(5).

Eine Kopie dieses Zeugnisses soll jederzeit auf jedem Schiff mitgeführt werden, das mit diesem 15 ppm Bilge Alarm ausgerüstet ist.

A copy of this Certificate should be carried aboard a vessel fitted with this 15 ppm Bilge Alarm at all times.

Dieses Typenzulassungszeugnis bleibt über das nachstehende Datum hinaus in Kraft, sofern kein Widerruf erfolgt. Ein Widerruf für auf einem Schiff eingebaute Einrichtungen kann z.B. erfolgen, wenn diese nicht gefahren und/oder nicht gewartet und/oder nicht funktionsbereit sind und/oder nicht innerhalb einer angemessenen Frist an zukünftige Bestimmungen angepasst werden können.

This certificate of type approval is in force beyond the below mentioned date unless it is revoked.

A revocation of the equipment installed aboard the ship can follow, but is not limited to, if the equipment is not maintained and/or is not in good working order and/or the equipment can not be modified within an appropriate time frame, due to future regulatory standards.

Daten und Ergebnisse der Erprobungen siehe Anhang.

Test data and results attached as Appendix.

Dieses Typenzulassungszeugnis ist gültig bis: **30.09.2009**

This certificate of type approval is valid until:

Ausgestellt in Hamburg am: **29.09.2004**

Issued at Hamburg on:

Zulassungs-Nr.: **320 028**

Certificate-No.:



**SEE-BERUFSGENOSSENSCHAFT
- SCHIFFSSICHERHEITSABTEILUNG -**

i. A. Seifert
Unterschrift
Signature