



See-Berufsgenossenschaft
Prüf- und Zertifizierungsstelle
im BG-PRÜFZERT
European notified body
Identification number 0736

Deutsche Gesetzliche
Unfallversicherung



EC-Type Examination (Module B) Certificate

Certificate No. **213.010**

Name and address of the manufacturer: **MSA Auer GmbH**
Thiemannstraße 1, 12059 Berlin (Germany)

Date of issue: **10.06.2008**

Annex A.1 Item No & Item designation: **A.1/3.30 - Oxygen analysis and gas detection equipment**

Product designation: **Oxygen analysis and gas detection equipment**

Product Type: **Control Unit Type 9010 LCD and 9020 LCD with remote sensors (types see overleaf)**

Intended purpose: **Oxygen analysis and gas detection equipment complying with SOLAS 74/88 Chapter II-2 Regulation 4.5.7.1, 4.5.7.2.1 und 4.5.7.2.2, as amended, IMO Resolution MSC.98(73) Chapter 15.2.4.2.4 (FSS-Code).**

Testing based on (Specific standard): **EN 50104 (1999), EN 61779-1 and -4 (2000) Combustible Gases. The EN 50054(1991) and EN 50057(1999) are replaced by EN 61779-1 and -4(2000).**

Remarks: **see overleaf**

The type tested was found to be in compliance with the Fire Protection 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, E or F** of this directive.

Expiry date: **31.08.2013**



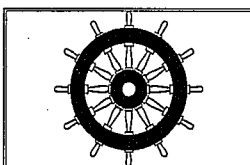
Signature (Niehus)

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

Technical data/approved drawings and additional conditions and remarks:

1.

This EC Type-Examination Certificate is based on following documents:

- EC Type- Examination Certificate INERIS 00ATEX0028 X of INERIS (INSTITUT NATIONAL DE L'ENVIRONNEMENT INDUSTRIEL ET DES RISQUES), 60550 Verneuil-en-Halatte (F), dated 01.12.2000.
- "Addition INERIS 00ATEX0028 X/01", to the EC Type- Examination Certificate INERIS 00ATEX0028 X, dated 06.06.2001.
- "Addition INERIS 00ATEX0028 X/02", to the EC Type- Examination Certificate INERIS 00ATEX0028 X, dated 19.09.2003.
- "Addition INERIS 00ATEX0028 X/05", to the EC Type- Examination Certificate INERIS 00ATEX0028 X, dated 14.03.2006.
- "Addition INERIS 00ATEX0028 X/07", to the EC Type- Examination Certificate INERIS 00ATEX0028 X, dated 01.09.2006.
- EC Type- Examination Certificate DMT 98 ATEX E016 X of the DMT (Deutsche Montan Technologie GmbH), 45307 Essen (D), dated 29.06.1998 and the amendments nos. 1 and 2 thereto.
- EC Type- Examination Certificate INERIS 01ATEX0061 of the INERIS (INSTITUT NATIONAL DE L'ENVIRONNEMENT INDUSTRIEL ET DES RISQUES), 60550 Verneuil-en-Halatte (F), dated 28.12.2001.

2.

The terms of the EC Type-Examination Certificates, as amended, are part of this EC Type-Examination Certificate.

3.

The Oxygen analysis and gas detection "Control Unit Type 9010 LCD and 9020 LCD" may be connected to the following remote sensors:

- 3.1 Typ "Serie D-7010"
- 3.2 Typ "Serie D-7100"
- 3.3 Typ "Serie 47/0705"
- 3.4 Typ "Serie 47K-ST"
- 3.5 Typ "Serie 47 K-PRP"
- 3.6 Typ "Serie 47 K-HT"

The measuring and detection channel of the "Control Unit Type 9010 LCD and 9020 LCD" may be connected to any active remote sensors with 4 – 20 mA output, if they have an own EC-Type Examination Certificate for function and protection for use in potentially explosive atmosphere.

4.

Alteration in design and construction have to be approved by the See-Berufsgenossenschaft.

5.

The equipment shall be marked in accordance with article 11 of the Council Directive 96/98 EC of 20 December 1996 on Marine Equipment as amended.

6.

This EC-Type Examination Certificate may only reproduced in full.

7.

This EC-Type Examination Certificate replaces the old EC-Type Examination Certificate, issued on 11.08.2003 with a running time up to 31.08.2008.