



BG Verkehr  
 Ship Safety Division  
 Prüf- und Zertifizierungsstelle  
 im BG-PRÜFZERT  
 European notified body  
 Identification number 0736

Deutsche Gesetzliche  
 Unfallversicherung



## EC-Type Examination (Module B) Certificate

Certificate No. **213.037**

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

Date of issue: **23.02.2010**

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 (type 1 + type 2)**

Product Type: **Multigas detector type "SIRIUS"**

Intended purpose: **Oxygen analysis and gas detection equipment complying with SOLAS 74/88 Chapter II-2/4, as amended, IMO Resolution MSC.98(73)-(FSS-Code) 15.**

Testing based on (Specific standard): **EN 60945(2002), IEC 60092-504(2001)\*, IEC 60533(1999)\***  
 Category 1: (safe area): **EN 50104(2002) incl. A1 (2004) Oxygen, EN 61779-1(2000), EN 61779-4(2000)**  
 Category 2: (explosive gas atmospheres): **-EN 50104(2002) incl. A1 (2004) Oxygen, EN 61779-1(2000), EN 61779-4(2000), IEC 60079-0(2004)\*, IEC 60079-1(2003)\*, IEC 60079-10(2002)\*, IEC 60079-11(2006)\*, IEC 60079-15(2005)\*, IEC 60079-26(2006)\***  
 (\*) = Testing standards not applicable

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 2008/67/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: **28.02.2015**



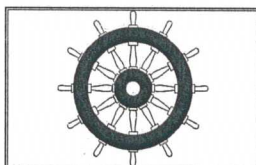
Signature (Niehus)

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 BVS 05 ATEX E 025 X of the „EXAM - BBG Prüf- und Zertifizier GmbH“, 44809 Bochum (D), dated 11.10.2005
- EC- Type Examination Certificate FTZÚ 05 ATEX 0003X of the “FTZU - Physikal Technical Testing Institute”, 71607 Ostrava-Radvanice (CZ), dated 29.04.2005
- 3. Supplement to the EC- Type Examination Certificate FTZÚ 05 ATEX 0003X of the “FTZU - Physikal Technical Testing Institute”, 71607 Ostrava-Radvanice (CZ), dated 29.04.2005
- EMC - Test Report No. D/09/3666/02 of the „Teseq GmbH“, 12623 Berlin (D), dated 16.10.2009

2.

The terms of the EC- Type Examination Certificate / test report are part of this EC-Type Examination Certificate.

3.

Alteration in design and construction have to be approved by the BG Verkehr, Dienststelle Schiffssicherheit.

4.

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.

5.

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

6.

This EC-Type Examination Certificate replaces the old EC-Type Examination Certificate, issued on 10.06.2008 with a running time up to 30.06.2013.