

EC TYPE EXAMINATION (MODULE B) CERTIFICATE


This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Fire protection requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC, 2002/84/EC, 2008/67/EC, 2009/26/EC, 2010/68/EU, 2011/75/EU, 2012/32/EU, 2013/ 52/ EU and 2014/93/EU subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer	Crowcon Detection Instruments Ltd
Address	172 Brook Drive Milton Park Abingdon Oxon, OX14 4SD United Kingdom (UK)
Annex A1 Item	A.1/3.30 PORTABLE OXYGEN ANALYSIS AND GAS DETECTION EQUIPMENT
Product Type	Gasman Oxygen C Gasman Oxygen Cr
Software	Ver. V1i1.22
Product Description	Portable Oxygen Gas Detection Unit
Specified Standard	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60533 (1999), EN 50104 (2010), EN 60079-0 (2012), EN 60079-1 (2007) including IEC 60079-1 Corrigendum 1 (2008), EN 60079-11 (2012)

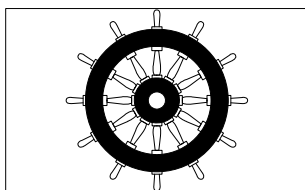
The attached Design Appraisal Document (schedule) forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue	26 February 2015	Expiry date	01 November 2019
Certificate No.	MED 1500022	Signed	   Lloyd's Register
Sheet No	1 of 3	Name	
		<small>LR427.2013.12</small> For and on behalf of Lloyd's Register Verification LRV EC Distinguishing No. 0038	

Note:

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



0038/yy

Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.
yy Last two digits of year mark affixed.

This certificate is issued under the authority of the MCA.

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK.
A subsidiary of Lloyd's Register Group Limited.



Lloyd's
Register

Lloyd's Register Verification Limited

Marine Technology & Engineering Services

Southampton Boldrewood Innovation Campus,

Burgess Road, Southampton, SO16 7QF

Email med@lr.org

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Document number MED 1500022
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 26 February 2015	Quote this reference on all future communications MTES/ETS/LG/WP19841479/WO3928258
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1500022

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

APPROVAL DOCUMENTATION

Request Form	11.11.2014
Mariner Systems IEC 60945 statement	-
Crowcon compliance statement	18.12.2013
Crowcon product declaration	27.04.2012

CERTIFICATES

Lloyd's Register MED Certificate Number MED 1000009/M2	19.03.2014
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TEST REPORTS

Test report no. TL 13016	10.12.2013
Test report no. TL 14018 Issue 1	25.02.2014
Baseefa EC-Type Test (Baseefa04ATEX0384 Iss 13)	01.09.2014

THE FOLLOWING MED SPECIFIED STANDARDS ARE NOT APPLICABLE TO THIS PRODUCT

- EN 60079-29-1(2007)
- EN 60079-10-1 (2009)
- IEC 60079-15 (2010)
- EN 60079-26 (2007)

CONDITIONS OF CERTIFICATION

1. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
2. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.
3. If the specified standards are amended during the validity of this certificate. The product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.



Lloyd's
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SOFTWARE VERSION

Gasman Oxygen V1i1.22

PLACE OF PRODUCTION

Crowcon Detection Instruments Ltd
172 Brook Drive
Milton Park
Abingdon
Oxon, OX14 4SD
United Kingdom (UK)



LR427.2013.12

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For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038