

## 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 and 2010/68/EU subject to any conditions in the Design Appraisal Document attached hereto.

**Manufacturer** Crowcon Detection Instruments Ltd

**Address**  
2 Blacklands Way  
Abingdon Business Park  
Abingdon  
Oxfordshire, OX14 1DY  
United Kingdom (UK)

**Annex A1 Item** A.1/3.30 PORTABLE OXYGEN ANALYSIS AND GAS DETECTION EQUIPMENT

**Product Type** Tetra

**Product Description** Portable Oxygen and Flammable Gas Detection Unit

|                           |                     |  |                     |
|---------------------------|---------------------|--|---------------------|
| <b>Specified Standard</b> | EN 60945 (2002)     | IEC 60092-504 (2001)                       | IEC 60533 (1999)    |
|                           | EN 60079-29-1(2007) | EN 50104 (2002) including Amd. 2004 Oxygen |                     |
|                           | IEC 60079-0 (2007)  | IEC 60079-1 (2007)                         | IEC 60079-11 (2006) |

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** 20 February 2012      **Expiry date** 19 May 2015

**Certificate No.** MED 1000020/M1      **Signed**

*R.M. Kelkar*  


**Sheet No** 1 of 3

**Name**

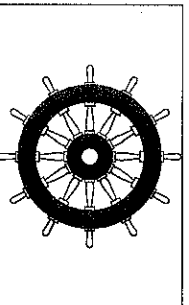
R.M. Kelkar  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038

**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.

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(f) 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 is the business name of Lloyd's Register Verification Limited, a member of the Lloyd's Register Group.  
Registration number 49292226.  
Registered office 71 Fenchurch Street, London EC3M 4BS, England  
0038/yy

"Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract."

|                 |                  |
|-----------------|------------------|
| Page            | 2 of 3           |
| Document number | MED 1000020 / M1 |
| Issue number    | 1                |

### DESIGN APPRAISAL DOCUMENT

|      |                  |   |                                   |
|------|------------------|---|-----------------------------------|
| Date | 20 February 2012 | Quote this reference on all future communications | LDSO/ETS/RMK/WF9071881/SOU1101416 |
|------|------------------|---|-----------------------------------|

#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1000020/M1

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 23.09.2011  
Crowcon email 04.01.2012

#### CERTIFICATES

Lloyd's Register MED Certificate Number MED 1000020 20.05.2010

#### TEST REPORTS

Certificate No. Basefa03ATEX0193 Issue 16 02.12.2011

#### THE FOLLOWING MED SPECIFIED STANDARDS ARE NOT APPLICABLE TO THIS PRODUCT

IEC 60079-10 (2002)  
IEC 60079-15 (2005)  
IEC 60079-26 (2006)

#### 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.

#### PLACE OF PRODUCTION

Crowcon Detection Instruments Ltd  
2 Blacklands Way  
Abingdon Business Park  
Abingdon  
Oxfordshire, OX14 1DY  
United Kingdom (UK)

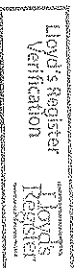
|                 |                  |
|-----------------|------------------|
| Page            | 3 of 3           |
| Document number | MED 1000020 / M1 |
| Issue number    | 1                |

### DESIGN APPRAISAL DOCUMENT

|      |                  |   |
|------|------------------|---|
| Date | 20 February 2012 | Quote this reference on all future communications |
|      |                  | LD50/ETS/RMK/WP9071881/SOU1101416                 |

#### SOFTWARE VERSION

Tetra V1H.13



R. M. Kelkar

For and on behalf of Lloyd's Register Verification

LRV EC Distinguishing No. 0038

| Producer   | Product and Type  | Details of Approval  | Specified Standard   | Remarks                         | Cert. No.                      |
|--|---|--|--|---------------------------------|--------------------------------|
| Crown Detection Instruments Ltd,<br>2 Blacklands Way,<br>Abingdon Business Park,<br>Abingdon,<br>Oxfordshire, OX14 1DY,<br>United Kingdom (UK) | Tetra<br>A/1/3.30 PORTABLE OXYGEN ANALYSIS<br>AND GAS DETECTION EQUIPMENT | Details of Approval<br>A/1/3.30 PORTABLE OXYGEN ANALYSIS<br>AND GAS DETECTION EQUIPMENT<br>Portable Oxygen and Flammable Gas<br>Detection Unit | Specified Standard<br>EN 60945 (2002)<br>IEC 60092-504 (2001)<br>IEC 60533 (1999)<br>EN 60079-29-1(2007)<br>EN 50104 (2002) including Amd. 2004<br>Oxygen<br>IEC 60079-0 (2007)<br>IEC 60079-1 (2007)<br>IEC 60079-11 (2006) | Remarks<br>Expires: 19 May 2015 | Cert. No.<br>MED<br>1000020/M1 |

*R. Lucas*