

Maritime & Coastguard Agency 
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 Certificate No:
 LR2011423MB-02

 Issue Date:
 15/10/2020

 Expiry Date:
 09/06/2025

# EC Type Examination (Module B) Certificate

#### This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No.1025), as amended, did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer	Crowcon Detection Instruments Ltd
Address	172 Brook Drive, Milton Park, Abingdon, Oxfordshire, OX14 4SD UnitedKingdom
Reference	Regulation (EU) 2020/1170
Regulation Item (No. & Item Designation)	MED/3.30 Portable Oxygen Analysis And Gas Detection Equipment
Product Type	PORTABLE OXYGEN ANALYSIS AND GAS DETECTION EQUIPMENT
Product Description	MULTI-GAS MONITOR
Specified Standard	EN 60945:2002 Including IEC 60945 Corrigendum 1: 2008, Cat 2: (Explosive Gas Atmosphères) EN 50104: 2010, EN 60079-0: 2012 Inc. A11 :2013, EN60079-1: 2014, EN 60079-11: 2012, EN 60079-29-1: 2016
Trade Name	GAS-PRO/GAS-PRO TK

The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate is issued under the authority of the MCA. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to and agreed with the notified body named on this certificate. The manufacturer should notify LRV of any modification or changes to the equipment in order to obtain a valid Certificate.

Should the specified regulations or standards be amended during the period of validity of this certificate, the product is to be re-approved prior being placed on the market and on board vessels to which the amended regulations or standards apply.

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 II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

Matt Higgins Electrical Specialist to Lloyd's Register Verification Ltd A member of the Lloyd's Register group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register 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 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.

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4929226) is a limited company registered in

England and Wales. Registered office: 71

Fenchurch Street, London, EC3M 4BS, UK. A

member of Lloyd's Register group.



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# ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2011423MB-02

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.

This Certificate is an Amendment of Certificate No. LR2011423MB

### **APPROVAL DOCUMENTATION**

MED Risk Assessment Declaration	2 Jul 2020
CDoC-9 Ver 11 EU Declaration of Conformity, Survitec Gas Pro, Survitec Gas Pro TK	9 Jul 2019
ISO9001:2015 Certificate No 10086516	28 May 2018
Schedule of Accreditation MS Testing	20 Nov 2018
ENG-000130 Issue 5 Minimum Manual Content Gas-Pro INMETRO -	10 May 2018
Q10105 Gas-Pro/Gas-Pro TK MED Assessment of Risk	19 Jan 2019
ENG-000028 Issue 7 Minimum Manual Content Gas-Pro-Certification Control Document	23 Nov 2017
ENG-000024 Issue 4 Gas-Pro Sensors-Certification Control Document	23 Nov 2017

## **DRAWINGS**

# GAS-PRO/GAS-PRO TK Electronic Certified Drawings

1004-1027-CD-CERT: Gas-Pro Display	03 Mar 2011
1004-1027-PCB-CERT: Gas-Pro Display	16 Mar 2011
1004-1027-PL-CERT: Gas-Pro Display Certified Parts List	03 Mar 2011
1004-1042-01-CD-CERT: Gas-Pro B3 Main PCB	31 Mar 2011
1004-1042-01-PL-CERT: Gas-Pro B3 Main PCB	15 Apr 2011
1004-1042-CD-CERT: Gas-Pro B3 Main PCB	18 Apr 2011
1004-1042-PCB-CERT: Gas-Pro B3 Main PCB	01 Mar 2011
1004-1042-PL-CERT: Gas-Pro B3 Main PCB Parts List	13Apr 2015
1004-1047-01-CD-CERT: Gas-Pro B2 Main PCB	31 Mar 2011
1004-1047-01-PL-CERT: Gas-Pro B2 Main PCB Parts List	17 Apr 2011
1004-1047-CD-CERT: Gas-Pro B2 Main PCB	10 Mar 2011
1004-1047-PCB-CERT: Gas-Pro B2 Main PCB	10 Mar 2011
1047-1047-PL-CERT: Gas-Pro B2 Main PCB Parts List	15 Apr 2015
1004-1080- CD-CERT: Gas Pro B1 Main PCB	10 Mar 2011
1004-1080- PCB-CERT: Gas Pro B1 PCB	10 Mar 2011
1004-1080-CD-CERT Issue 2: Gas Pro B1 Main PCB ( Circuit Diagram)	16 Dec 2015
1004-1080-PCB-CERT Issue 2: Gas Pro B1 Main PCB ( PCB Layout)	17 Dec 2015
1004-1080-PL-CERT: Gas-Pro B1 Main PCB Parts List	17 Apr 2015
ECAD-000106-01-CD-CERT: Gas-Pro B4 Main PCB Version 4b	29 Sept 2013
ECAD-000106-01-PL-CERT: Gas-Pro Main PCB Version 4b Parts List	30 Apr 2015
ECAD-000106-CD-CERT: Gas-Pro B4 Main PCB Version 4	26 Sept 2013



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## ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2011423MB-02

ECAD-000106-PCB-CERT: Gas-Pro B4 Main PCB Version 4 ECAD-000106-PL-CERT: Gas-Pro B4 Main PCB Version 4

#### GAS-PRO/GAS-PRO TK Mechanical Certified Drawings

1004-1005: Front Case Moulding 1004-1006: Rear Case Moulding Rev 4 1004-1008: Pumped Flow Plate Assembly 1004-1009: Pumped Flow Plate 1004-1014: Battery Tray 1004-1016: B2 Potting Box 1004-1022: Non Pumped Flow Plate Assembly 1004-1023: Non Pumped Flow Plate 1004-1049: Gas-Pro-Certification GA MCAD Issue 5 1004-1075: Gas Pro Battery Assembly Issue 2 1004-1076 Gas Pro ATEX Certification Label Issue 4 1004-1077: B3 Potting Box 1004-1086: Display Board PCB Assembly 1004-1089: Display Board PCB Assembly Wireless 1004-1090: Display to Main Board Connection 1004-1091: B3 and B4 Main Board Potting Detail 1004-1093: B1 Potting Box 1004-1094: B2 Main Board Potting Detail 1004-1095: B1 Main Board Potting Detail 1004-1096: Charging Cables 1004-1098: Charger Certification Label 1004-1099: B3 Sensor Insulator 1004-1101: B2 Sensor Insulator 1004-1266: B1 Sensor Insulator 1004-2501: Comms Certification Label 1004-2502: Power & Comms Certification Label 1004-2503: Car Charger Certification Label 1004-6000: Battery Connection 1004-6003: Pump Cable Restraint 1004-6005: KNF Pump-PJ25004-NMS020 1004-6010: Flow Plate Assembly Two 1004-7001: Standard Parts 1004-7002: Connecting Cable- Main Board to Display Board 1004-7003: Piezo Transducer 3072: Grip Clip CAB HARM MAIN\_Issue 4 GA Harmony Conn\_Issue 2 GASPRO LCD and Backlight

19 Nov 2013 30 Apr 2015

12 Nov 2013
23 Nov 2017
08 Apr 2010
08 Apr 2010
15 Jun 2010
22 Oct 2010
08 Apr 2010
15 Jun 2010
25 Apr 2016
26 Aug 2010
07 July 2010
07 July 2010
15 Jun 2010
04 Aug 2010
10 Nov 2010
18 Sept 2010
09 Feb 2011
21 Feb 2011
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01 Feb 2011 22 Feb 2011
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08 Apr 2010 22 Feb 2011
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12 Aug 2010
05 Jan 2011
14 Mar 2011



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# ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2011423MB-02

MCAD-003241 Issue : IR Sensor Shield	13 Jan 2016
MCAD-003242 Issue 1: Front Case RFI Shielding	13 Jan 2016
MCAD-003243 Issue 1: Rear Case RFI Shielding	13 Jan 2016
MCAD-000713: Dust Filter Plate	05 Sept 2013
MCAD-000743: Dust Filter Flow Plate Assy	05 Sept 2013
MCAD-002434: B4 Sensor Insulator	19 Sept 2013
MCAD-003205: MED Atex/IECEx Certification Label Rev 2	07 July 2010
MCAD-003224: MED Inmetro Certification Label Rev 2	21 Dec 2017
MCAD-003235: MED UL Certification Label Rev 2	21 Dec 2017

# **TEST REPORTS & CERTIFICATION**

ACF-3371468.935278 DEMKO 11 ATEX 1031772X Rev. 6 DK ULD ExTR 11.0005 06 DEMKO A/S IECEx ULD 11.0004X Issue 7: IECEx Certificate of Conformity TL19061C- EMC Including TL16038-EMC Gas-Pro IR TL16038 Crowcon Gas Pro EMC Report Issue 2 TL14065A-EMC Test Report TL14065A-ENV Test Report TL14065B-ENV BS EN 50104 Compatibility Test Report TL14065C-ENV Test Report BS 60079-29-1 Compatibility TL 14065B-EMC BS EN 50270 & BS EN 61000-6-3 ±41 Test Report	2017/12/04 2017/12/04 2017/12/04 15 Jul 2019 04 Apr 2016 03 Dec 2014 22 Dec 2014 08 Jan 2015 09 Jan 2015 03 Dec 2014
TL14065B-EMC BS EN 50270 & BS EN 61000-6-3 +A1 Test Report	03 Dec 2014

# **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 a 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. The following Standards are not applicable for this certificate:

EN 60079-15: 2010 EN 60079-26: 200



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## ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR2011423MB-02

#### PLACE OF PRODUCTION

Crowcon Detection Instruments Ltd 172 Brook Drive Milton Park Abingdon OX14 4SD

NOTIFIED BODY CERTIFICATE TRANSFER OF RESPONSIBILITY



Certificate No: 0525-MED-DE-LR2011423MB-02

This certificate transfers Lloyd's Register Verification Ltd. (0038) Certificate No: LR2011423MB-02 Issued on: 15 October 2020 to the responsibility of EU Notified Body No. 0525 (Lloyd's Register Deutschland GmbH)

Date of Original Certificate: 15 October 2020 Date of Current Certificate: 31 December 2020 Date of Certificate Expiry: 09 June 2025

Jörn Brügmann Lloyd's Register Deutschland GmbH Überseeallee 10, 20457 Hamburg/Germany T +49 40 349 700 101 44

Atrym ~

Matt Higgins Electrical Specialist Engineering Systems UK&I Technical Support Office, Marine & Offshore For and on behalf of Lloyd's Register Verification **LRV EC Distinguishing No. 0038**