



Confirmation of Product Type Approval

Company Name: HONEYWELL SENSING AND CONTROL (CHINA) CO., LTD.

Address: NO. 1668 TIANYIN ROAD, SCIENCE PARK, JIANGNING DISTRICT, NANJING CITY, JIANGSU PROVINCE China

Product: Gas Detector

Model(s): GasAlertMicroClip XT (MC2-XWHM-xx), GasAlertMicroClip XL (MCXL-XWHM-xx) and GasAlertMicroClip X3 (MCX-XWHM-a-bb)

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	20-2040487-PDA-DUP	23-SEP-2020	22-SEP-2025
Manufacturing Assessment (MA)	21-4604928	25-JAN-2021	24-JAN-2026
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Marine & Offshore Applications - Portable Multi-gas Detector for CO, H₂S, Combustible Gas and Oxygen.

Description

GasAlertMicroClip is a Multi-Gas Detector warns of Hazardous Gas at Levels above user-defined Alarm Setpoints. Confirmation of Detector Operation & Compliance provided by IntelliFlash.

Ratings

Operating Temperature: -4 °F to +122 °F (-20 °C to +50 °C);

CSA certified -20 °C to +58 °C on the Combustible Sensor;

Storage Temperature: -40 °F to +122 °F (-40 °C to +50 °C);

Hazardous Atmosphere:

cCSAus: Class I, Div. 1, Group A, B, C, D T4;

ATEX: II 1 G Ex ia IIC T4 Ga;

IECEX: Ex ia IIC T4 Ga; Ta= -20 to 50°C (XL & X3), Ta: -20 to 58°C (XT);

Intrinsically Safe: when powered by Lithium Polymer Battery;

Protection: IP 65/67;

Operating Humidity:

0% to 95% relative humidity;

Audible Alarm:

95 dB at 30 cm (1 ft).

Service Restrictions

i) Unit Certification is not required for this product. If the manufacturer or purchaser's requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

ii) ATEX certified equipment is not to be installed in hazardous areas on U.S vessels unless it can be prove to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S coast Guard. USCG notice 01-12 (February 7, 2012).

iii) All electrical equipment intended for installation in hazardous areas are to be certified safe type based on the class of the hazardous area at its location of installation. Certificates in this regard are to be presented to ABS Surveyor for verification on a case by case basis.

Comments

Duplicate PDA resides with RAE Systems (Shanghai) Inc. - Jiading District, China (WCN 444534) and ADEMCO DE JUAREZ S. DE R.L. DE C.V.CIUDAD JUAREZ, CHIHUAHUA, Mexico (WCN 430612)

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes, Drawings and Documentation

Drawing No. 50112194-150, 50112194-150 BWTD-02_A5 Li-Poly Battery Assy-MicroClip XL, Revision: A5, Pages: 2

Drawing No. 50120681-001, 50120681-001 QRG-GAMCXT-XL-X3_ZH_F4, Revision: -, Pages: 30

Drawing No. 50120743-005_GMCX3A-02, 50120743-005_GMCX3A-02_C MCX3 Certification Label NA-EU, Revision: C, Pages: 1

Drawing No. 50123060-002, 50123060-002 Deactivated, Revision: -, Pages: 1

Drawing No. 50123060-002 Changes, 50123060-002 changes, Revision: -, Pages: 1

Drawing No. 50123060-002_B4, 50123060-002_B4_MCXT Cert BOM, Revision: B4, Pages: 23

Drawing No. 50123060-004_A6, 50123060-004_A6_MCX3 Cert BOM, Revision: A6, Pages: 24

Drawing No. 50123060-004_A7, 50123060-004 A7 changes, Revision: -, Pages: 1

Drawing No. 50123060-005, 50123060-005 Deactivated, Revision: -, Pages: 1

Drawing No. 50123060-005_B5, 50123060-005_B5_MCXL Cert BOM, Revision: B5, Pages: 22

Drawing No. 5012360-004, 5012360-004 Deactivated, Revision: -, Pages: 1

Drawing No. 5012360-005_B5, 5012360-005 B5 Changes, Revision: -, Pages: 1

Drawing No. CSA Certificate GasAlertMicroClip XL,XT,X3, CSA - GasAlertMicroClip XL,XT,X3 - Certificate of Compliance + Suppl- 1730355 (Iss. 30.08.2019), Revision: -, Pages: 6

Drawing No. DEKRA 19ATEX0025, ATEX - GasAlertMicroclip XL,XT,X3 - EU Type Examination Certificate - DEKRA 19ATEX0025 (Iss 0 - Iss 15.04.19), Revision: -, Pages: 2

Drawing No. Declaration of conformity GasAlert MicroClip XT XL X3 2020 08 31, Declaration of conformity GasAlert MicroClip XT XL X3 2020 08 31, Revision: -, Pages: -

Drawing No. GMCX3D-61A2, GMCX3D-61A2_Assembly-GAMicroClipX3, Revision: A2, Pages: 1

Drawing No. GMCX3W-01E, GMCX3W-01E, Revision: E, Pages: 12

Drawing No. IECEx_CSA_05.0015, IECEx_CSA_05.0015 Certificate, Revision: -, Pages: 4

Drawing No. PN 50112194-150_A5, PN 50112194-150
bwtd-02A5_lipo_batteryassy_microclipxl_29nov18, Revision: A5, Pages: 2

Drawing No. Part number status, Part number status, Revision: -, Pages: 2

Drawing No. SIRA - GasAlertMicroclip XL,XT,X3 - EU Type Examination Certificate, SIRA - GasAlertMicroclip XL,XT,X3 - EU Type Examination Certificate, Sira 13ATEX2330 (issue 6) CSA, Revision: -, Pages: 7

Supporting Documents (Previous Tasks):

Manual No. 50120681-001 EN-D1 Operator's Manual MicroClip XT, XL & X3, Issued 2015;

BOM No. 50123060-004, Certification BOM MCX3, Revision A1, Issued 02 April 2015;

BOM No. 50123060-005, Certification BOM MCXL, Revision B1, Issued 30 May 2015;

BOM No. 50123060-002, Certification BOM MCXT, Revision B1, Issued 30 May 2015;

Drawing No. BWTD-02A3, Lithium-Polymer Battery ASM, Microclip XL, Revision A.3;

Drawing No. GMCX3A-02, GMCX3A-02 GasCertification Label, Revision A.1;

Drawing No. GMCX3D-60A1, GA Microclip X3-Material Details, Revision: A.1;

Drawing No. GMCX3D-61A1, GA MicroClip X3 Assembly, Revision A.1;

Drawing No. GMCX3D-62A1, Battery Volume Details, GA Microclip X3, Revision A.1;

Drawing No. GMCX3E-01B MicroClip X3 PCB Layout;

Drawing No. GMCX3W-01D, GasAlert Microclip X3 PCB Block Diagram, Revision D;

Certificate No. 1730355, CSA Certificate of Compliance, Issued 05 April 2015;

Certificate No. IECEx CSA 05.0015, IECEx Certificate of Conformity, Revision 11, Issued 10 June 2015;

Sira Certificate No. Sira 13ATEX2330, EC Type Examination, Revision: 2, Issued 15 June 2015.

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 22/Sep/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

Rules for Conditions of Classification, Part 1 - 2020 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2020 Marine Vessel 4-8-3/1.11.1, Table 2, 13.3.1, 4-8-4/27.1, 27.5.1, 5C-1-7/17.7, 25.33, Table 1;

Rules for Conditions of Classification, Part 1 - 2020 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3 , which covers the following:

2020 Mobile Offshore Units: 4-3-1/3.15, 15, 4-3-3/9.1.1, 9.1.2, 9.1.3, 9.5, Table 1.

International Standards

CSA Standard C22.2 No. 152 -M1984: 2016,

CSA Standard C22.2 No. 157-M1992: 2016;

IEC 60079-1 Ed. 7.0 b:2014

IEC 60079-11 Ed. 6.0 b:2011

IEC 60079-26 Ed. 3.0 b:2014

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read 'James J. White', is positioned above the printed name and title.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 17-Nov-2021 5:22

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does

not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.