



Confirmation of Type Approval

This is to certify that, pursuant to the Rules of American Bureau of Shipping (ABS), on 03/JUL/2007 the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) and a valid Product Design Assessment (PDA) for the below listed product, entitling the product to type approval. The validity of the Manufacturing Assessment is dependent on satisfactory audits as required by the Rules. The Product Design Assessment is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

For Date of ABS Rules used for evaluation; Please refer to the ABS Rules below.

This Confirmation of Product Type Approval is valid as of the date shown above for the below listed product.

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 evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that the Client has full responsibility for continued compliance with the evaluation standard, whether the standard is an ABS Rule or a non-ABS Rule. As specified in the ABS Rules, Unit Certification may be required in addition to Product Type Approval. Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

BW Technologies by Honeywell

**Model Name(s): GasAlertClip-Extreme - GA24XT, GA36XT Standard: H2S, SO2,
CO & O2**

Presented to:

BW Technologies by Honeywell
2840 - 2nd Avenue S.E.
Calgary
Alberta T2A 7X9
Canada

Intended Service:

Portable Gas Detector for Confined Space Monitoring

Description:

GasAlertClip-Extreme is a clip on personal gas detection/warning device that alarms at the presences of hazardous gases. This product is a detector and monitor system with 2 or 3 year disposable battery, Water-Resistant IP66, Single Gas Detector

Ratings:

Intrinsic Safety "i", UL: Class I, Division I, Groups A, B, C, & D, T4, Class I, Zone 0, Group IIC T4; EC-Type Examination Certificate: DEMCO 03 ATEX 0321968, Ex II 1G EEx ia IIC T4

Service Restrictions:

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

Comments:

See EC Type Examination Certificate for details of detectors and drawings. Duplicate PDA resides with System Sensor de Mexico-CD. JUAREZ.

Notes / Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity:

This Design Assessment Certificate number 03-HS386614/3-PDA, dated

12/Mar/2007 will expire on 11/Mar/2012 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2008, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

ABS Rules:

2007 Steel Vessel Rules 1-1-4/7.7 , 4-8-3/13, 4-8-4/27, 5-1-7/17, 25, 31, & 5-1-7/Tbl 1

National Standards:

UL Certificate # 20040910-E131021, Ref. E131021 05 Mar 04; UL Certificate #03.21968 1Oct 03, Ref. E13121 28 Au.03

International Standards:

UL International Certificate #DEMKO 03 ATEX Ref: 0321968, UL Standard 913, CSA C22.2 No. 157-92

Government Authority:**EUMED:****Others:**

IECEX Certificate IECEXUL04.0006, Ex ia IIC T4 (26 Jul 06),



Manager, ABS Programs

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 was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. 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.