



## *Confirmation of Type Approval*

This is to certify that, pursuant to the Rules of American Bureau of Shipping (ABS), on 21/DEC/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): GasAlertMicroClip MC-XWHM**

**Presented to:**

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

<b>Intended Service:</b>	Portable Multi-gas intrinsically safe gas detector for Marine & Offshore Installation.
<b>Description:</b>	GasAlertMicroClip is a portable gas detector/ warning device that alarms at the presence of hazardous gases. The GasAlertMicroClip detects Hydrogen Sulfide, combustible gases, carbon monoxide and oxygen.
<b>Ratings:</b>	Class I, Division 1, Group A, B, C, D; EEx ia IIC T4; Ex ia IIC T4; EM/RFI, IP 65/67
<b>Service Restrictions:</b>	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.
<b>Comments:</b>	None
<b>Notes / Documentation:</b>	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. Approval Documentation: IECEx Certificate of Conformity No. IECEx CSA 05.00.15 dated 6 November 2006, CSA Certificate of Compliance No. 1730355 (LR 80529) dated 22 March 2007, GasAlertMicroClip Quick Reference Guide D5867/2 and Specification Sheet.
<b>Term of Validity:</b>	This Design Assessment Certificate number 07-HS294200-PDA, dated 17/Dec/2007 will expire on 16/Dec/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 Vessels Rules 1-1-4/7.7, 4-8-4/27.3.2

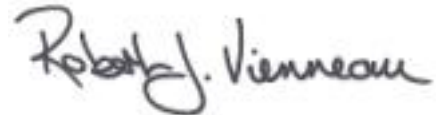
**National Standards:** UL 913, ANSI/ ISA S12.13.1;

**International Standards:** CAN/CSA C22.2 No. 157, CAN CSA 22.2 No. 152; IEC 60079-0, IEC 60079-11, IEC 60079-26; EN 50014, EN 50020, EN 50284

**Government Authority:**

**EUMED:**

**Others:**



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.