



CERTIFICATE NUMBER

DATE

11-LD766034-F DA

07 July 2011

ABS TECHNICAL OFFICE

London Engineering Department

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**APOLLO FIRE DETECTORS LIMITED - HAMPSHIRE**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

PRODUCT: **Fire Detection System**

MODEL: **Apollo Analogue Addressable Range of Flame/Smoke/Heat Detectors, Manual Call Points and Accessories**

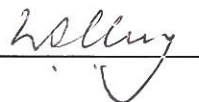
This Product Design Assessment (PDA) Certificate 11-LD766034-PDA, dated 07/Jul/2011 remains valid until 06/Jul/2016 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

  
Wing F. Cheung  
Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

## APOLLO FIRE DETECTORS LIMITED

36 BROOKSIDE ROAD  
HAVANT  
HAMPSHIRE  
ENGLAND PO9 1JR  
United Kingdom  
Telephone: 44-2392-492-412  
Fax: 44-2392-492-754  
Web: www.apollo-fire.co.uk

MA Certificate No. 09-SO1732027-X

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**Product:** Fire Detection System

**Model:** Apollo Analogue Addressable Range of Flame/Smoke/Heat Detectors, Manual Call Points and Accessories

**Intended Service:**

Analogue addressable fire detection system detectors, call points and accessories for marine and offshore applications in process, machinery and accommodation spaces.

**Description:**

Analogue addressable detectors, call points and accessories

45681-210MAR 4inch Addressable Base  
45681-211MAR Isolator Base  
45681-286MAR 20D Negative Isolating Base  
45681-394MAR Sounder Beacon  
55000-027MAR UV Flame Detector  
55000-028MAR UV/IR2 Flame Detector  
55000-029MAR IR3 Flame Detector  
55000-034MAR IR3 Flame Detector  
55000-181MAR DIN Rail 8 amp Sounder Controller  
55000-700MAR Short Circuit Isolator  
55000-720MAR 20D Negative Short Circuit Isolator  
55000-721MAR 20D Negative Isolator  
55000-770MAR DIN Rail Dual Isolator  
55000-771MAR DIN Rail Output Unit  
55000-772MAR DIN Rail Switch Monitor Plus  
55000-773MAR DIN Rail Zone Monitor with Isolator  
55000-774MAR DIN Rail Input/Output Unit  
55000-775MAR DIN Rail Mini Switch Monitor  
55000-855MAR DIN Rail Single Channel Protocol Translator  
55000-856MAR DIN Rail Dual Channel Protocol Translator  
55000-900MAR Manual Call Point, Standard  
55000-910MAR Manual Call Point, Standard  
58000-400MAR Heat Detector  
58000-500MAR Ionisation Smoke Detector  
58000-600MAR Optical Smoke Detector  
58000-700MAR Multisensor Smoke Detector  
58100-970MAR Red Manual Call Point  
58100-971MAR Red Manual Call Point with Isolator  
58100-975MAR Waterproof Manual Call Point  
58100-976MAR Waterproof Manual Call Point with Isolator

**Ratings:**

Nominal voltage 17 to 28V DC  
Operating temperature -20°C to 60°C, -30°C to 70°C or -40°C to 70°C dependent on model  
Quiescent current 100µA to 400µA dependent on model  
Ingress protection IP44 (detectors), IP67 (manual call points)



MFC

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**Service Restrictions:**

Unit Certification is not required for this product. If the manufacturer or purchaser 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:**

Approval is for hardware only. Each configuration and external connection is to be specifically approved.

**Notes / Drawings / 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 Product Design Assessment (PDA) Certificate 11-LD766034-PDA, dated 07/Jul/2011 remains valid until 06/Jul/2016 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

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**STANDARDS**

**ABS Rules:**

2011 Steel Vessel Rules 1-1-4/7.7, 4-7-3/11.5, 4-9-7/13

**National:**

EN54 Parts 5:2001, 7:2001, 10:2002, 11:2001, 17:2005, 18:2005 as applicable

**International:**

IMO FSS Code Chapter 9

**Government Authority:**

NA

**EUMED:**

NA

**Others:**

NA



*WPC*