



STATUS: Archive

CERTIFICATE NUMBER

11-LD766034A-PDA

DATE

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 XP95 Analogue Addressable Intrinsically Safe Range of Smoke/Heat Detectors, Manual Call Points and Accessories**

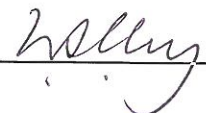
This Product Design Assessment (PDA) Certificate 11-LD766034A-PDA, dated 07/Jul/2011 remains valid until 06/Jul/2016 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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

  
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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 committers, 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-A/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

**Product:** Fire Detection System  
**Model:** Apollo XP95 Analogue Addressable Intrinsicly Safe Range of Smoke/Heat Detectors, Manual Call Points and Accessories

### Intended Service:

Intrinsicly safe analogue addressable fire detection systems and manual call point for marine and offshore applications in process, machinery and accommodation spaces.

### Description:

XP95 Analogue addressable intrinsicly safe detectors, call points and accessories

45681-215 Standard Base  
55000-440 Class A2S Heat Detector  
55000-540 Ionisation Smoke Detector  
55000-640 Optical Smoke Detector  
55000-855MAR DIN Rail Single Channel Protocol Translator  
55000-856MAR DIN Rail Dual Channel Protocol Translator  
55000-940 Red Manual Call Point  
55100-940 Red Manual Call Point

### Ratings:

Nominal voltage: 14 to 22V DC;  
Operating temperature: -20°C to 60°C;  
Quiescent Current: 230µA to 340µA, Alarm Current: 10 to 60 mA;  
Ingress protection: IP44 (detectors), IP 65/66 (manual call points);  
Classification: EEx ia IIC T5 or T4 (Ta < or = 60°C);  
Safety certification: BAS02 ATEX 1289 and Supplementary EC (File No. 05/0415).



### 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. The loop-power channel protocol translators are to be installed in safe areas. The detection units must be connected to approved safety barriers for hazardous applications.

### Comments:

Tests and approval are for hardware only. Each configuration and external connection is to be specifically approved, particularly cable parameters for compliance with the limitations specified in the hazardous area certificates.

### 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-LD766034A-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.

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**STANDARDS**

**ABS Rules:**

2011 Steel Vessel Rules 1-1-4/7.7, 4-7-3/11.5, 4-8-3/13.3.1, 4-9-7/13

**National:**

EN54-5 (2001), EN54-7 (2001) and EN54-11 (2001)

**International:**

IMO FSS Code Chapter 9

**Government Authority:**

NA

**EUMED:**

European Union Marine Equipment Directive 96/98/EC as Amended by 2008/67/EC. Item A.1/3.51 Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, machinery spaces and unattended machinery spaces.

**Others:**

NA

