



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 03/ 00061(E4) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

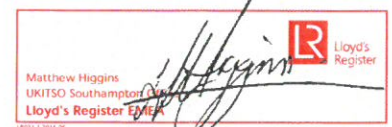
PRODUCER	Apollo Fire Detectors Ltd.
PLACE OF PRODUCTION	36 Brookside Road Havant Hampshire, PO9 1JR United Kingdom (UK)
DESCRIPTION	Analogue addressable ionisation smoke detector
TYPE	Discovery Range: 58000-500 MAR
APPLICATION	Marine and offshore use in environmental categories ENV1, ENV2, ENV3 and ENV5 as defined in LR Type Approval System Test Specification No.1:2015

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 03/00061(E5) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 03/ 00061(E4), 03/ 00061(E3), 03/ 00061(E2), 03/ 00061(E1) and 03/ 00061 to which this extension should be attached.

Certificate No.	03/ 00061(E5)
Issue Date	4 December 2018
Expiry Date	1 June 2023
Sheet	1 of 1



M.J.Higgins
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

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Document number 03/00061(E5)
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 4 December 2018	Quote this reference on all future communications UKITSO/ETS/TA/MJH/WP34257563
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2017.

Issued to: APOLLO FIRE DETECTORS LTD.

for: ANALOGUE ADDRESSABLE IONISATION SMOKE DETECTOR

Type: DISCOVERY RANGE: 58000-500 MAR

TYPE APPROVAL CERTIFICATE No. 03/00061(E5)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2017 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

LPCB ISO 9001:2015 Certificate No 010 Issue 18 6 Jul 2018
LR Visit Report SOU1400418 25 Apr 2014

DATA SHEETS

PP5002 Issue 1 Discovery Marine Ionisation Smoke Detector 2017
Discovery (PP2029/2002/Issue 12) 2016
Discovery Engineering Product Guide (PP2052/2015/Issue 7a) 2015
Open, Closed and Digital Protocols (PP2099/2017/Issue 6) 2017

CERTIFICATES

LPCB Certificate of Product Approval Certificate No 010q issue 38 12 Jun 2018
0832-CPR-F1849 Certificate of Consistency of Performance 27 Jul 2018
58000-500 Declaration of Performance No.0832-CPR-F1849 to EN54-7:2000+A1:2002+A2:2006 13 Nov 2018

DRAWINGS

38532-138 Discovery Ionisation Support Issue 1 11 Dec 2017
43781-700 Discovery Ionisation Smoke Detector PCB Assembly Issue 9 Dec 2017
47000-592 Printing Specification for Discovery Packing Labels Sht 1-Sht 5 Issue 8 Jul 2018
47000-593 Printing Specification for Discovery Packing Labels Issue 6 Jul 2018
58000-500 Discovery Ionisation Smoke Detector Issue 2 Dec 2017
58000-500 Discovery Ionisation Smoke Detector G.A. Build Standard Issue 19 Dec 2017
58000-500CD Discovery Ionisation Smoke Detector Schematic Diagram Issue 6 Feb 2008
39855-971Rev 2 Discovery (Texas Chip) Ionisation Smoke Detector PCB Machining Detail Jun 2013
35158-800 Rev 1C XP95 Keypad Aug 2016
35112-454/455 Rev 1B Series 65/65A & XP95 Ionisation Foil Nov 2016
34000-065 Discovery Ionisation Detector Microprocessor Programming Issue 1 Jul 2012
34000-065SW Embedded Software Record Issue 1 Jul 2012
38531-788 Issue 3 mod c Ionisation Chamber XP95 & Series 60 Sheet 1 of 3 Feb2010
38531-788 Issue 3 mod c Ionisation Chamber XP95 & Series 60 Sheet 2 of 3 Feb2010
38531-788 Issue 3 mod c Ionisation Chamber XP95 & Series 60 Sheet 3 of 3 Feb2010

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TEST REPORTS

TE P111208-1001 Apollo 58000-500 Ion Smoke Detector Test Report	22 Jun 2018
TE260875 BRE Technical Evaluation Report EN54-7:2000 ¹	9 Mar 2011
Apollo test schedule	24.05.2002
Apollo (No. 1660.0)	12.01.2003
LPC (No. TE 90374)	30.12.1998

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.



Matt Higgins
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Engineering Systems
UK&I Technical Support Office, Marine & Offshore
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