



Confirmation of Product Type Approval

Company Name: AUTRONICA FIRE AND SECURITY AS

Address: BROMSTADVEGEN 59, P.O. BOX 5620, TRONDHEIM, Norway, N-5620

Product: Fire Detection Equipment

Model(s): AutoGuard Multicriteria Protectors

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	21-2104069-PDA	13-APR-2021	12-APR-2026
Manufacturing Assessment (MA)	20-4414527	25-AUG-2020	02-OCT-2025
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

For use on ABS Classed Vessels and Offshore Installations in accordance with the listed ABS Rules and International Standards

Description

The AutoGuard® Multicriteria Protector features two heat sensors and a smoke chamber. The type of operation can be configured to fit the application, Heat, Optical or Multi Sensor.

AutoGuard® protectors can be delivered in a combination with integrated sounder, LED indicator and visual alarm device (VAD).

Interactive fire detectors designed for use with Autronica's interactive fire detection systems:

V-430 (Note 1) AutoGuard® Multicriteria protector

V-430-S (Note 1) AutoGuard® Multicriteria protector with sounder

V-430-VADW (Note 1) AutoGuard® Multicriteria protector with white VAD (visual alarm device)

V-430-VADR (Note 1) AutoGuard® Multicriteria protector with red VAD

V-430-S-VADW (Note 1) AutoGuard® Multicriteria protector with sounder and white VAD

V-430-S-VADR (Note 1) AutoGuard® Multicriteria protector with sounder and red VAD

V-530 (Note 2) AutoGuard® Multicriteria protector

V-530-EXIA (Note 2) AutoGuard® Multicriteria protector

V-530-EXIC (Note 2) AutoGuard® Multicriteria protector

AutoGuard V-110 and V-120 bases are the standard bases for multi criteria protector V-530 series.

Note 1: Available with option for Cover Detection & SelfVerify (option /CD). Tested with base V-100.

Note 2: EXIA/EXIC is available with option for High Sensitivity (option /HS). Tested with base V-110 and V-120

Ratings

Operating voltage ranges: 10-27 Vdc

Operating temperature: -30C to +70°C

Current consumption base - Average 60µA

Current consumption – Normal (base + protector): 120µA

Current consumption – alarm indicator (Red LED indicator ON): 2,1mA

Current consumption – fault indicator (Yellow LED indicator ON): 2,8mA

Sound pressure (dB @ 1m): Maximum 93 dBA at 1m range

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

- 1) Manufacturers' assembly instructions are to be strictly followed during installation.
- 2) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 3) The manufacturer's application instructions and manufacturer's assembly installation to be followed.

Notes, Drawings and Documentation

Drawing No. 1, Intertek 103874656LHD-025, Test report , Intertek Testing & Certification, UK, Revision: 1, Date 18.02.2021, Pages: 50

Drawing No. 2, Intertek 103963397LHD-021, Test report , Intertek Testing & Certification, UK, Revision: 1, Date 20.11.2020, Pages: 26

Drawing No. 3, Intertek 103963397LHD-022, Test report , Intertek Testing & Certification, UK, Revision: 1, Date 20.11.2020, Pages: 25

Drawing No. 4, Intertek 103874656 EN54-5, Test report , Intertek Testing & Certification, UK, Revision: 1, Date 20.03.2020, Pages: 49

Drawing No. 5, Intertek 103874656 EN54-7, Test report , Intertek Testing & Certification, UK, Revision: 1, Date 20.03.2020, Pages: 44

Drawing No. 6, Intertek 103874656 EN54-17, Test report , Intertek Testing & Certification, UK, Revision: 1, Date 20.03.2020, Pages: 30

Drawing No. 7, Intertek 103874656 EN54-29, Test report , Intertek Testing & Certification, UK, Revision:

1, Date 20.03.2020, Pages: 31

Drawing No. 9, AutoGuard Commissioning, Revision: 1, Pages: 8

Drawing No. 10, AutoGuard-conduit-boxes, Revision: 1, Pages: 2

Drawing No. 11, AutoGuard-sound-pressure-levels, Revision: 1, Pages: 5

Drawing No. 12, AutoGuard Technical Handbook, Revision: 1, Pages: 100

Drawing No. 13, AutoGuard V430 Datasheet, Revision: 1, Pages: 5

Drawing No. 14, AutoGuard V530 Datasheet, Revision: 1, Pages: 5

Drawing No. 15, MEDB00006DJ, Revision: 1, Pages: 6

Drawing No. 16, MEDB0000646, Revision: 1, Pages: 6

Drawing No. 17, MEDD0000141, Revision: 1, Pages: 3

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 12/Apr/2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

- Marine Vessels Rules (2021): 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-7-3/11.3.3(a) ii) & iii), 4-8-3/1.7, 4-8-3/1.9, 4-8-3/1.11, 4-8-3/1.17, 4-9-9/3, 4-9-9/7, 4-9-9/Table 1 and 4-9-9/Table 2;
- Facilities on Offshore Installations (2021): 1-1-4/9.7, 1-1-A2, 1-1-A3, 3-7/3.5;
- Mobile Offshore Units (2021): 1-1-4/9.7, 1-1-A3, 1-1-A4, 6-1-1/9, 6-1-1/13; 4-3-1/9, 4-3-1/15, 4-3-1/17;
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2021): 1-1-4/7.7, 1-1-A3, 1-1-A4; 4-1-1/21; 4-5-1/9, 4-5-1/17, 4-5-1/19;
- High Speed Crafts (2021): 1-1-4/11.9, 1-1-A2, 1-1-A3, 4-6-1/9, 4-6-1/15, 4-6-1/17, 4-7-9/3, 4-7-9/ Table 9 and 4-7-9/ Table 10
- Steel Barge Rules (2021): 1-1-4/7.9, 1-1-A3, 1-1-A4;

International Standards

- EN 54-3:2014 incl. A1:2019 (for V430 optional sounder)
- EN 54-5:2017 incl. A1:2018 (for V430 and V530 multisensor/multicriteria)
- EN 54-7:2018 for (for V430 and V530 multisensor/multicriteria)
- EN 54-17:2005 incl. AC:2007 (base for V100, V110, V120)
- EN 54-23:2010 (for optional VAD) for V430
- EN 54-29:2015 (V430 and V530 multisensor/multicriteria)
- IEC 60092-504:2016
- IEC 60533:2015

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in black ink, appearing to read 'James J. White'.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 11-May-2021 5:17

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 is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. 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 this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

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.