



Marine & Offshore

Certificate number: 65293/A0 BV

File number: MPA2101223

Product code: 3779H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**Autronica Fire and Security AS**  
TRONDHEIM - NORWAY

*for the type of product*

**MULTI SENSORS FOR FIRE DETECTION & FIRE ALARM SYSTEMS**

AutroGuard Multicriteria Protector V-430 and V-530

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

EN 54-5:2017+A1:2018, EN 54-7:2018,

EN 54-17:2005+AC:2007, EN 54-29:2015,

IEC 60079-0: 2017, IEC 60079-11: 2011.

EC Code: 31/41SB

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 18 Jan 2027**

**For Bureau Veritas Marine & Offshore,**

At BV OSLO, on 18 Jan 2022,

Rune MARSTEIN

*Rune Marstein*



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### **1. PRODUCT DESCRIPTION :**

AutroGuard Multicriteria Protector **V-430** series and **V-530** series.

#### **Approved Range:**

V- 430	: AutroGuard Multicriteria protector
V- 430-S	: AutroGuard Multicriteria protector with sounder
V- 430-VADW	: AutroGuard Multicriteria protector with white VAD (visual alarm device)
V- 430-VADR	: AutroGuard Multicriteria protector with red VAD
V- 430-S-VADW	: AutroGuard Multicriteria protector with sounder and white VAD
V- 430-S-VADR	: AutroGuard Multicriteria protector with sounder and red VAD
V- 530	: AutroGuard Multicriteria protector with SIL2 approval
V- 530-EXIA	: AutroGuard Multicriteria protector with SIL2 approval, intrinsically safe for zone 0, 1 and 2
V- 530-EXIC	: AutroGuard Multicriteria protector with SIL2 approval, intrinsically safe for zone 2
V-100	: Standard base for protector series V-430
V-110	: Standard base for protector series V-530 with SIL2 approval, with remote LED output
V-120	: EX base for protector series V-530 with SIL2 approval, without remote LED output

#### **Main Specifications:**

Current consumption	120 $\mu$ A
Protector base	V-430 : V-100 standard base V-530 : V-110 standard base, V-120 Ex base
Operating temperature	-30 to 70°C
Ingress protection	IP44
Ex certification	Ex ia IIC T5 Ga
Standard	EN 54-5, EN 54-7, EN 54-29, EN 54-17 EN 54-3 for V-430 with sounder EN 54-23 for V-430 with VAD

### **2. DOCUMENTS AND DRAWINGS :**

#### **Autronica:**

- AutroGuard V-430 Product Datasheet, No. Doc-1004268.2, dated 08-06-2020.
- AutroGuard V-530 Product Datasheet, No. Doc-1004269.2, dated 08-06-2020.
- AutroGuard V-100 Product Datasheet, No. Doc-1004270.2, dated 08-06-2020.
- AutroGuard V-110 and V-120 Product Datasheet, No. Doc-1004271.2, dated 08-06-2020.
- AutroGuard Commissioning Procedure, dated 17-12-2020.
- AutroGuard Conduit boxes Product Datasheet, No. Doc-1004488, dated 14-10-2020.
- AutroGuard sound pressure levels Product Information, No. Doc-1004272.1, dated 19-05-2020.
- AutroGuard Multicriteria Protector Series Technical Handbook, No. Doc-1004339 rev.1, dated 29-06-2020.

#### **Ex certificate:**

- IECEx certificate No. IECEx DNV 21.0082X Issue 0, dated 11-11-2021.
- EU-Type Examination certificate No. DNV21 ATEX 14779X Issue 0, dated 11-11-2021.

### **3. TEST REPORTS :**

#### **intertek:**

- IEC60092-504 Test Report No. 103874656LHD-025, dated 18-02-2021.
- EN 54-3 Test Report No. 103963397LHD-021, dated 20-11-2020.
- EN 54-23 Test Report No. 103963397LHD-022, dated 20-11-2020.
- EN 54-5 Test Report No. 103874656LHD-021, dated 20-03-2020.
- EN 54-7 Test Report No. 103874656LHD-022, dated 20-03-2020.
- EN 54-17 Test Report No. 103874656LHD-023, dated 20-03-2020.
- EN 54-29 Test Report No. 103874656LHD-024, dated 20-03-2020.
- EMC Test Report No. 103874656LHD-002a, dated 25-11-2019.
- EMC Test Report No. 103874656LHD-002b, dated 25-11-2019.
- EMC Test Report No. 103874656LHD-002c, dated 25-11-2019.
- EMC Test Report No. 103874656LHD-002d, dated 15-09-2020.

### **4. APPLICATION / LIMITATION :**

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 - BUREAU VERITAS Environmental Category, EC Code: **31/41SB**
- 4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.
- 4.5 - Ex certification is not covered by this certificate, Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.
- 4.6 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 7.

### **5. PRODUCTION SURVEY REQUIREMENTS :**

- 5.1 - The above products are to be supplied by **Autronica Fire and Security AS** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 - **Autronica Fire and Security AS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
- 5.4 - For information, **Autronica Fire and Security AS** has declared to Bureau Veritas the following production site(s):

**Autronica Fire and Security AS**  
**Bromstadveien 59**  
**7483 TRONDHEIM**  
**NORWAY**

### **6. MARKING OF PRODUCT :**

- Maker's name or trade mark.
- Serial number of the units.
- Equipment type number or model identification under which it was type-tested.
- According to EN 54-5, EN 54-7, EN-17 and EN 54-29.
- Ex marking as relevant.

### **7. OTHERS :**

It is **Autronica Fire and Security AS** 's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*