



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX DNV 22.0009X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 2	<a href="#">Issue 1 (2023-05-05)</a> <a href="#">Issue 0 (2022-05-16)</a>
Date of Issue:	2024-12-17		
Applicant:	<b>Autronica Fire &amp; Security AS</b> Bromstadvegen 59 Trondheim 7047 Norway		
Equipment:	<b>Fire detector</b>		
Optional accessory:			
Type of Protection:	<b>intrinsic safety, ic</b>		
Marking:	Ex ic IIB T5 Gc -30°C ≤ Ta ≤ +70°C		

Approved for issue on behalf of the IECEx  
Certification Body:

**Asle Kaastad**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DNV Product Assurance AS**  
Veritasveien 1  
1363 Høvik  
Norway





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Manufacturer: **Autronica Fire & Security AS**  
Bromstadvegen 59  
Trondheim 7047  
Norway

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[NO/DNV/ExTR22.0008/01](#)

[NO/DNV/ExTR22.0008/02](#)

Quality Assessment Report:

[NO/NEM/QAR10.0005/10](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

AutoGuard multicriteria protector (V-530-EXIC or V-530-EXIC/HS mounted to V-120). The product is an assembly of two parts, base and detector.

The base includes a PCBA with terminals for external connections.

The detector board is mounted in the detector and have connections to the base PCBA.

The bases may alternatively be mounted on the box BWP-100 (not a part of the certificate).

The detectors shall be supplied by the Autronica detector loop driver module, BSD-310/N, which is intended to be mounted in the Autosafe Fire Alarm Control panel and connected to the power supply BSS-310A (in non-hazardous area). The loop driver is certified in IECEx NEM 11.0017X.

AutoGuard protectors can be used as a replacement for AutoSafe detectors, by mounting adapter V-120/RETRO on AutoGuard. We then have a complete spare part that can replace Autronica legacy detectors 1 to 1.

(BWA-1101 Assembled PCB 128kB (base) can be used instead of AutoGuard Multicriteria Protector V-120-EXIA (base), as circuit is equal. Only layout is changed.)

AutoGuard multicriteria protector can be mounted inside AIR DUCT SAMPLING UNIT BWP-143A-SS/AG and then used as a set.

## Type designation

AutoGuard Multicriteria Protector V-530-EXIC

AutoGuard Multicriteria Protector V-530-EXIC/HS (high sense variant) \*

AutoGuard Multicriteria Protector V-120 (base)

AIR DUCT SAMPLING UNIT BWP-143A-SS/AG

V-120/RETRO (adapter for base)\*\*

AutoGuard Retro EXIC model names:

V-530-EXIC/BD500, V-530-EXIC/BH500, V-530-EXIC/HS/BH500, V-530-EXIC/BH520

\* Only software changes between V-530-EXIC and V-530-EXIC/HS.

\*\* Only layout changes between V-120 and V-120/RETRO.

## Intrinsic Safety Data

Only to be connected to BSD-310/N and BSS-310A certified in IECEx NEM 11.0008X.

Number of detectors that can be connected in parallel: 127

Maximum capacitance in cable: 1,9µF.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

2. The detector shall only be supplied by power supply BSS-310A and loop driver BSD-310/N, certified in IECEx NEM 11.0017X, according to control drawing Doc-1005104.

3. Max. airflow duct speed = 9 m/s.

4. The maximum pressure increase in the duct adapter is 0.0152 bar, which lead to the maximum ambient pressure where the BWP-143A-SS/AG with detector can be installed in is 1.1 bar – 0.0152 bar = 1.0848 bar.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- Added AIR DUCT SAMPLING UNIT BWP-143A-SS/AG as an additional accessory
- Corrected a marking error (gas group) in the certificate
- Removed precise type of Polycarbonate material from Control Drawing
- In the Equipment field, the certificate number for the loop driver has been corrected