



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

Certificate No.:	IECEX DNV 21.0082X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2024-12-13)
Date of Issue:	2025-11-06		Issue 1 (2023-05-31)
Applicant:	Autronica Fire & Security AS Bromstadvegen 59 Trondheim 7047 Norway		Issue 0 (2021-11-11)
Equipment:	Fire detector		
Optional accessory:			
Type of Protection:	Intrinsic safety		
Marking:	Ex ia IIC T5 Ga -30°C ≤ Ta ≤ +70°C For use with BWP-143A-SS/AG: Ex ia IIA T5 Ga -30°C ≤ Ta ≤ +70°C Ex ib IIB T5 Gb -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 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: **Autronica Fire & Security AS**
Bromstadvegen 59
Trondheim 7047
Norway

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/ExTR21.0071/01](#)

[NO/DNV/ExTR21.0071/02](#)

[NO/DNV/ExTR21.0071/03](#)

Quality Assessment Report:

[NO/NEM/QAR10.0005/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

All in one fire detector. The product is an assembly of two parts, socket and detector.
The socket board is mounted in the socket with terminals for external connections.
The detector board is mounted in the detector and have connections to the socket board.

AutroGuard multicriteria protector can be mounted inside AIR DUCT SAMPLING UNIT BWP-143A-SS/AG and then used this set with limited Ex parameters as defined in MARKING item and SPECIFIC CONDITIONS OF USE item of this certificate.

The detectors shall be supplied by the Autronica interface and shunt protection unit, BZ-500, IECEX NEM 11.0008.

Type designation:

AutroGuard Multicriteria Protector V-530-EXIA
AutroGuard Multicriteria Protector V-530-EXIA/HS (high sense variant)*
AutroGuard Multicriteria Protector V-120 (base) and V-120/AP (base) *
V-120/RETRO (adapter for base)**

AutroGuard Retro EXIA model names:

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

Air Duct Sampling Unit BWP-143A-SS/AG

* Only software changes between V-530-EXIA and V-530-EXIA/HS, and between V-120 and V-120/AP and V-120/RETRO

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

Intrinsic safety parameters:

Ui: 15,75V
Ii: 63,5mA
Pi: 0,44W
Ci: 4,4nF
Li: Negligible

Number of detectors that can be connected in parallel: 32

Maximum capacitance in cable: 302nF

Ambient temperature:

-30°C to +70°C

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS
2. Max. airflow duct speed = 9 m/s.
3. 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.
4. When detector is used together with the BWP-143A-SS/AG then the set shall be mounted with one of the two limited Ex parameters as mentioned on the BWP-143A-SS/AG nameplate, to be selected by the user:

Ex ia IIA T5 Ga -30°C ≤ Ta ≤ +70°C

Ex ib IIB T5 Gb -30°C ≤ Ta ≤ +70°C



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The change will consist in changing the capacitor C5 from ceramic to electrolyte (on the detector PCB) and changing the traces on PCB.
Removed non-safety components D24, R10, C34, R20