

# CERTIFICATE OF CONFORMITY

**1. EQUIPMENT CERTIFICATE OF CONFORMITY PER US REQUIREMENTS FOR  
EXPLOSIVE ATMOSPHERES  
FIRE PROTECTION**

2. **Certificate No:** **FM25US0169X**
3. **Equipment:  
(Type Reference and Name)** **V-430 and V-530 Series AutoGuard Smoke and Heat  
Detectors**
4. **Name of Listing Company:** **Autronica Fire and Security AS**
5. **Address of Listing Company:** **Bromstadveien 59, Trondheim, NO-7047, Norway**
6. The examination and test results are recorded in confidential report number:

PR464439 dated 27<sup>th</sup> April 2023

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3210:2021, FM 3230:2023, FM 3600:2022, FM 3610:2021, FM 3810:2021, ANSI/UL 60079-0:2019,  
ANSI/UL 60079-11:2018, ANSI/IEC 60529:2004, ANSI/UL 61010-1:2023

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Approval Guide Listing Category:

Alarm Signal Initiating Devices, Fire Detection, Heat-Actuated  
Alarm Signal Initiating Devices, Smoke Detectors  
Detectors, Smoke, Explosive Atmospheres - US

11. Equipment Ratings:

See Annex

**Certificate issued by:**



J.E. Marquedant  
VP, Manager - Electrical Systems

27 January 2026

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA  
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12. The marking of the equipment shall include:



See Annex

13. **Description of Equipment:**

See Annex

14. **Specific Conditions of Use:**

See Annex

15. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

16. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

17. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
27 April 2023	Original Issue.
27 January 2026	<u>Supplement 1:</u> Report Reference: PR472964 dated 27 January 2026. Description of the Change(s): Addition of intrinsically safe option, generation of new format certificate

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## ANNEX

### Model V-430-series and V-530-series AutoGuard Smoke and Heat multicriteria detector

**Description of Equipment:**

**Model V-430-series and V-530-series AutoGuard Smoke and Heat multicriteria detector**

Compatible fire alarm panels	Autroprime-series (SW version 2.1.x and newer), AutoSafe Interactive Fire Detection System (SW version 4.11.x and newer).
Maximum number of devices per SLC loop	127 devices
Compatible detector bases	V-100 for V-430-series detector head; V-110 and V-120 for V-530-series detector head; V-1x0 bases can be installed on BWP-100 conduit box; BWA-100 for AutoGuard Retro spare part detector (V-430/Bssss and V-530aaaaa/bb/Bssss);
Smoke sensitivity (smoke detector only)	1.53 - 2.79 %/ft obscuration
Fixed temperature operating range	57°C (135°F)
RTI classification (heat detector only)	Quick
Maximum spacing*	30 x 30 ft (when installed as a smoke detector); 20 x 20 ft (when installed as a heat detector)
Operating voltage range	Standard variants: 24 VDC, max 5.4mA (Autronica AL_Com proprietary interface) VADx variants: 24 VDC, max 21.0mA (Autronica AL_Com proprietary interface) S-VADx variants: 24 VDC, max 26.9mA (Autronica AL_Com proprietary interface)
Operating temperature range	-30°C to +70°C ( +80°C when configured for heat detection only)
Air velocity range	30 fpm
Maximum humidity	95 % RH (non-condensing)
Transmission method	Autronica AL_Com proprietary interface
Enclosure	Indoor use only

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Explanation of Suffixes	<p>V-430 and V-530 detectors are configurable smoke/heat detectors with optional extra features: S = Sounder (93 dBA @1m), VAD = Visual Alarm Device (R = red or W = white).</p> <p>V-430-xxxxxx-yy/ww/zz xxxxxx - Extra feature (Blank = none, S, VADW, VADR, S-VADR S-VADW); yy - Model color (Blank = White, BK = Black, CC = Custom color); ww - Enabled options (Blank = None, CD = Cover Detection &amp; Self Verify, HS = Extra High Sensitivity, DS = Data Subscription); zz - represents various certifications;</p> <p>V-530-xxxxxx-yy/ww/zz xxxxxx - Extra feature (Blank = none, EXIA, EXIC, S-VADW); yy - Model color (Blank = White, BK = Black, CC = Custom color); ww - Enabled options (Blank = None, CD = Cover Detection &amp; Self Verify, HS = Extra High Sensitivity); zz - represents various certifications.</p> <p>V-430/Bssss and V-530aaaaa/bb/Bssss aaaaa – Explosion proof feature (Blank = none, -EXIA, -EXIC); bb – Extra high sensitivity feature (Blank = none, HS = High sensitivity); Bssss - spare part variant for relevant AutoSafe detector model</p>
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## V-530-EXIA/BH500 Smoke Sensor Module and V-120/RETRO Adapter

### Equipment Ratings:

Intrinsically Safe for Class I, Division 1, Groups A, B, C and D, Temperature Class T5 and Ex ia IIC T5 for Class I, Zone 0;  $-30^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ ; when installed per Control Drawing DOC-1029787

### Markings:

IS, CL I, DIV 1, GP ABCD T5,  $-30^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$   
CL I, ZN 0, AEx ia IIC T5  $-30^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$  Ga  
Control Drawing DOC - 1029787

### Description of Equipment:

The V-530-EXIA/BH500 Smoke Sensor Module 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 makes connections to the base PCBA.

### Entity Parameters:

$U_i = 15.75 \text{ Vdc}$ ,  $I_i = 63.5 \text{ mA}$ ,  $P_i = 0.44\text{W}$ ,  $C_i = 4.4 \text{ nF}$ ,  $L_i = 0$

### Specific Conditions of Use:

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

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