




Date : 21 June, 2023

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	PR464439	CERTIFICATE NUMBER	PR464439
DATE OF ISSUE	27 April, 2023	DATE OF ISSUE	27 April, 2023
DATE OF EXPIRY	NONE	DATE OF EXPIRY	NONE
Manufacturer Details			
NAME OF FACTORY / MANUFACTURER	Autronica Fire and Security AS	NAME OF THE BRAND	Autronica Fire and Security AS
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Bromstadveien 59 Trondheim NO-7483 Norway	MODEL / NO	V-430-series and V-530-series AutoGuard Smoke and Heat multicriteria detectors including AutoGuard Retro spare part detector and compatible bases.
WEBSITE	https://www.autronicafire.com/en/	LOGO ON THE PRODUCT	 AUTRONICA® NO-7483 Trondheim Made in Norway
TEL	+47 90 90 55 00	EMAIL	Piotr.Malachowski@carr ier.com








Product Details From Test Report		Reference Test Report page number
DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/ THICKNESS/ SENSITIVITY ETC)	AutoGuard Multicriteria detectors, Models V-430 and V-530 utilize "MultiAngle/MultiWavelength" optical smoke sensing technology and can be configured to smoke, heat or both smoke and heat operations simultaneously (multisensory operation).	4
TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	FM 3230: 2023 - Smoke Actuated Detectors for Automatic Fire Alarm Signaling, FM 3210: 2021 - Heat Detectors for Automatic Fire Alarm Signaling	2
TEST DESCRIPTION	All testing and analysis considered appropriate was conducted and verified to be in compliance with the Standards listing in the Test Standards section. All data is on file at FM Approvals along with other documentation and correspondence applicable to this program.	6
SPECIFICATION OF TEST SPECIMEN	The samples were considered to be representative of the product line and were examined, tested, and compared to the manufacturer's drawings.	6
TEST RESULT (SUCH AS PASSED CRITERIA___/ COMPLIED TO___/ DURATION___/ OBSERVATION___/ETC)	Pass	9
PRODUCT APPLICATION GUIDELINE (END USE) (CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN___/TO BE INSTALLED AT___/TO BE CONNECTED WITH___/TO BE INSTALLED WITH___ ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN___/NOT TO BE INSTALLED AT___/ NOT TO BE INSTALLED WITH___ETC.	Installations shall comply with the manufacturer's published installation instructions.	7







Laboratory and Certification body details			
NAME OF CERTIFICATION BODY	FM Approvals	NAME OF TEST FACILITY	FM Approvals
CERTIFICATION BODY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	1151 Boston-Providence Turnpike Norwood, MA 02062 USA	TEST FACILITY ADDRESS /REGION (STREET / TOWN / CITY / COUNTRY)	1151 Boston-Providence Turnpike Norwood, MA 02062 USA
WEBSITE	www.fmaprovals.com	WEBSITE	www.fmaprovals.com
TEL	+1 (1) 781 762 4300	TEL	+1 (1) 781 762 4300
EMAIL	information@fmaprovals.com	EMAIL	information@fmaprovals.com
FM APPROVALS IS ACCREDITED BY	PER	VALIDITY	REFERENCE NUMBER
The Standards Council of Canada (SCC) www.scc.ca	ISO/IEC 17065	28 April 2025	FM Approvals LLC 1151 Boston-Providence Turnpike Norwood, MA 02062 USA
The Standards Council of Canada (SCC) www.scc.ca	ISO/IEC 17025	01 December 2024	No. 574 (Norwood, MA and West Glocester, RI)
International Accreditation Service (IAS) www.iasonline.org	ISO/IEC 17025	01 July 2025	No. TL 221 (Norwood, MA and West Glocester, RI)
Occupational Safety and Health Administration (OSHA) www.osha.gov	Guide 25/65	05 March 2026	OSHA-2007-041 (Norwood, MA and West Glocester, RI)
The Irish National Accreditation Board (INAB) www.inab.ie	ISO/IEC 17065	12 May 2023	No. 2809 Notified Body Identifier 6024 (Dublin, IE)
United Kingdom Accreditation Service (UKAS) www.ukas.com	ISO/IEC 17065	31 March 2024	No. 0259 Notified Body Identifier 1725 (Windsor, UK)
IECEX Conformity Assessment System www.iecex.com	ISO/IEC 17065	25 July 2024	FM Approvals LLC 1151 Boston-Providence Turnpike Norwood, MA 02062 USA
CERTIFICATION MARK			

(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER NAME			
NAME OF MANUFACTURER'S SIGNATORY	Marcin Ruciński	SIGNATURE	
EMAIL / TEL	marcin.rucinski@carrier.com	FACTORY OFFICIAL SEAL	
NOTES: I Undertake that all data and information provided are genuine and accurate			

(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY
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NAME OF CERTIFICATION BODY SIGNATORY	James Marquedant	SIGNATURE	
EMAIL / TEL	james.marquedant@fmapprovals.com	CERTIFICATION BODY OFFICIAL SEAL	

NOTES: I Undertake that all data and information provided are genuine and accurate

ATTACHMENTS: COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)



Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment: AutoGuard Multicriteria Detector

Equipment Model Designations: Model V-430-series and V-530-series AutoGuard Smoke and Heat multicriteria detectors

Approval Guide Listing Category: 3230, 3210

Electrical Signaling, Signaling Systems (Fire), Alarm Signal Initiating Devices, Fire Detection, Smoke Actuated, Fire Detectors-Smoke
Electrical Signaling, Signaling Systems (Fire), Alarm Signal Initiating Devices, Fire Detection, Heat Actuated

Autronica Fire and Security AS
Bromstadveien 59
Trondheim, NO-7483
Norway

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

<i>Approval Standards</i>	<i>Date</i>	<i>Other Standards</i>	<i>Date</i>
<i>Class Number</i>		<i>Organization, Designation</i>	
3230	2023	None	
3210	2021		



Original Approval Job Identification: PR464439

Approval Granted: 27 April 2023

Related Report: None

Subsequent Revisions:

To verify the availability of the Approved product, please refer to www.approvalguide.com


J.E. Marquedant
VP, Manager - Electrical Systems
FM Approvals
1151 Boston-Providence Turnpike,
Norwood MA, 02062 USA

27 April 2023

Date



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Certificate of Compliance

Fire Protection Electrical Signaling Alarm Signal Initiating Devices Fire detection, Heat Actuated

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), AutroSafe 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
Explanation of Suffixes	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).



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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 & Self Verify,
HS = Extra High Sensitivity, DS = Data Subscription);
zz - represents various certifications;

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 & Self Verify,
HS = Extra High Sensitivity);
zz - represents various certifications.

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



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Certificate of Compliance

Fire Protection Electrical Signaling Alarm Signal Initiating Devices Fire detection, Smoke Actuated Fire Detectors-Smoke

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), AutroSafe 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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Certificate of Compliance

Explanation of Suffixes

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).

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 & Self Verify, HS = Extra High Sensitivity, DS = Data Subscription);
zz - represents various certifications;

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 & Self Verify, HS = Extra High Sensitivity);
zz - represents various certifications.

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