Certificate of Compliance

FIRE PROTECTION EQUIPMENT

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

Equipment Model Designations: Model V-430-series and V-530-series AutroGuard 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:

Approval Standards		*Other Standards*	
Class Number	*Date*	*Organization, Designation*	*Date*
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

Certificate of Compliance

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

Model V-430-series and V-530-series AutroGuard 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 AutroGuard 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 AutroSafe detector model

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Model V-430-series and V-530-series AutroGuard 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 AutroGuard 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	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 AutroSafe detector model