




Date: 29.06.2015

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	3040438	CERTIFICATE NUMBER	3040438
DATE OF ISSUE	14 June, 2012	DATE OF ISSUE	31.October 2012
DATE OF EXPIRY	NONE	DATE OF EXPIRY	NONE
Manufacturer Details			
NAME OF FACTORY / MANUFACTURER	Autronica Fire & Security	NAME OF THE BRAND	Autronica Fire & Security
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Håkon VII's Gate 4 Trondheim, Norway	MODEL / NO	AutroSafe Fire Alarm Control Panel
WEBSITE	www.autronicafire.no	LOGO ON THE PRODUCT	 NO-7483 Trondheim Made in Norway
TEL	+47 90 90 55 00	EMAIL	info@autronicafire.no



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)	Fire Alarm Control Panel	2
TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	NFPA 72 National Fire Alarm Code FM 3010 Fire Alarm Systems	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	6
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.	6



Laboratory and Certification body details

NAME OF CERTIFICATION BODY	FM Approvals	NAME OF TEST FACILITY	FM Approvals
CERTIFICATION BODY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	1151 Boston-Providence Turnpike Norwood, MA 02062 USA	TEST FACILITY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	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	30 April 2017	FM Approvals LLC 1151 Boston-Providence Turnpike Norwood, MA 02062 USA
The Standards Council of Canada (SCC) www.scc.ca	ISO/IEC 17025 ISO/IEC 17025	12 January 2016 14 December 2015	No. 574 (Norwood, MA) No. 628 (West Gloucester, RI)
International Accreditation Service (IAS) www.iasonline.org	ISO/IEC 17025	01 April 2016	No. TL 221 (Norwood, MA and West Gloucester, RI)
Occupational Safety and Health Administration (OSHA) www.osha.gov	Guide 25/65	14 July 2019	OSHA-2007-041 (Norwood, MA and West Gloucester, RI)
United Kingdom Accreditation Service (UKAS) www.ukas.com	ISO/IEC 17065	01 February 2019	1725 (Norwood, MA)
IECEX Conformity Assessment System www.iecex.com	ISO/IEC 17065	22 May 2015	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	Ole Øivind Skjetne	SIGNATURE	
EMAIL / TEL	ole.skjetne@autronicafire.no	FACTORY OFFICIAL SEAL	
NOTES: I Undertake that all data and information provided are genuine and accurate			



(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY

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:

AutroSafe Integrated Fire and Gas Alarm Control System 4 consists of either a single control panel or networked configuration from a selection of five different panels. A single BS-420, BS-420M, BS-420G, or BS-420G2 Fire Alarm Control using software designated 4.4.X requires a power supply, either a BP-405 Power Cabinet, or a BPS-405 or BPS-410 alternatively BSS-103A.. It can accommodate a maximum of 12 modules. See page 2 for the listing.

Approval Guide Listing: Category:

Electrical Signaling, Signaling Systems (Fire), Local Protective Signaling, Local Protective Signaling
Electrical Signaling, Signaling Systems (Fire), Automatic Releases for Extinguishing Systems and Other Fire Protection Equipment

Autronica Fire and Security AS
Haakon VII's Gate 4
Trondheim, N-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>	
3010	September 2003	ANSI/ NFPA 72	2002
		ANSI/NEMA 864	September 2003

Original Approval Job Identification:0003040438

Approval Granted: October 31, 2012

Related Report: 3023568

Subsequent Revisions: 797 121001
797 121026
797 140904
797-36975-283


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Certificate of Compliance

AutoSafe Integrated Fire and Gas Alarm Control System 4 consists of either a single control panel or networked configuration from a selection of five different panels. A single BS-420, BS-420M, BS-420G, or BS-420G2 Fire Alarm Control using software designated 4.4.X requires a power supply, either a BP-405 Power Cabinet, or a BPS-405 or BPS-410 alternatively BSS-103A. It can accommodate a maximum of 12 modules. Controls are limited to six loops and a total of 512 devices, all panels contain BSL-310 and BSS310A as standard. Loops can contain initiating devices or notification appliances. System power from the BP-405 is a supervised 5.0 A at 24 Vdc from 115/230 Vac or a 24 Vdc from a two 18 Ah battery bank provided internally to the BP-405. Optional battery banks of up to 115 Ah are available for a multi-panel AutoSafe Fire Alarm Control System that may include a BC-420, BC-420G2, BC-440, or BC-440G2. Control panel using the same software and power as the BS-420 and optional panels: BS-430 or BS-430G2 Operator Panel, BU-BV-420 or BU-BV-420G2 Repeater Panel. BX-4XX controls are suitable for operation in ambient temperatures from 32° to 140°F (0° to 60°C), the BD series heat detectors operate from -4° to 125°F (-20° to 52°C); all other peripheral devices are rated at -4° to 158°F (-20° to 70°C). Inter-panel communication, Class A, in accordance with the requirements of NFPA72 2010 edition requires use of the appropriate Ethernet switches, and at least two fiber optic communication lines between the panels from among the following:

Switch Type	Description	Autronica part number
FL SWITCH SFNT 5TX	5 RJ45 ports	116-5151-030.2127
FL SWITCH SFNT 4TX/FX	4 RJ45 ports, 1 fiber optic multi-mode port (SC)	116-5151-030.2128
FL SWITCH SFNT 8TX	8 RJ45 ports	116-5151-030.2129
FL SWITCH SFNT 7TX/FX	7 RJ45 ports, 1 fiber optic multi-mode port (SC)	116-5151-030.2130
FL SWITCH LM 5TX	5 RJ45 ports	116-5151-030.2131
FL SWITCH LM 4TX/FX	4 RJ45 ports, 1 fiber optic multi-mode port (SC)	116-5151-030.2132
FL SWITCH LM 4TX/2FX	4 RJ45 ports, 2 fiber optic multi-mode port (SC)	116-5151-030.2133
FL SWITCH LM 4TX/FX SM	4 RJ45 ports, 1 fiber optic single-mode port (SC)	116-5151-030.2134
FL SWITCH LM 4TX/2FX SM	4 RJ45 ports, 2 fiber optic single-mode port (SC)	116-5151-030.2135

The optional modules are: BSJ-310 output module, each of which allows for 8 programmable open collector, non-monitored 100 mA outputs; BSD-310/311 detector loop module, each of which allows for connection of one AL Com loop of 127 devices, which can be configured for Class X or Class B signaling line circuit performance; panels are limited to six loops and a total of 512 devices, loops can be initiating or notification; BSB-310 alarm output module, each of which allows for connection of 4 alarm outputs having Class B notification appliance circuit performance; BSE-310/320 input modules allowing for connecting 4 monitored or 8 non monitored inputs respectively. AL Com addressable initiating devices include the Models BD-200, BD-300, BD-500, and BD-501 heat detectors rated 130°F (56°C) with RTI classification for detector set to rate compensated is V2Fast with a 10.6m x 10.6 m spacing (35x35 ft). RTI classification for detector set to fixed is Quick with a 6m x 6 m spacing (20x20 ft). Models BH-200, BH-300 and BH-500, BH-500/S and BH-500/N) photoelectric type smoke detectors BH-220, BH-320 and BH-520 photoelectric type smoke detectors with thermistor heat detection, Model BG-201 Flame Detector with or without the optional independent alarm outputs for each detector can be provided by BN-304 I/O units, and Models BF-300, BF-300M manual fire alarm stations. The addressable interface BN-300 works as a switch monitoring unit, and the BN-310 provides a relay output from the AL Com detector loop. The BNB-331 allows connection of conventional initiating devices such as the BG-21 Flame detector. The BN-201 allows the connection of supervisory devices to the AI Com. Relay output equipment can be connected to the loop with a BN-320 I/O unit. BN-320/02 is specifically for door control. BN-320/04 is the standard control unit and the BN-320/05 is for sprinkler system monitoring. The BNB-300/01 module provides the electronic circuitry for the manual call points An addressable notification device, the BBR-200 addressable sounder is available to be connected to a BSD-31X loop as an alarm notification device. The addressable BBR-110 mounts under the base of a BD or BH series detector. An AutoFieldBus driver in the panel will establish an AutoFieldBus to communicate with BSD-321 RS485 converter unit, a BSD-340 PowerLoop driver to connect to X33AF PL Flame detector and BN-342/1, 342/2 PowerLoop 4-20 mA input. The AutoFieldbus may be expanded using a BSL-321 or BSL-322 fiber optic converter or a BSL-325 booster in order to extend the length of the cables between units on the AutoFieldbus. See also: Automatic Releases for Extinguishing Systems and Other Fire Protection Equipment listing.



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