



# FDNY

**BUREAU OF FIRE PREVENTION**

9 MetroTech Center, 3rd Floor

Brooklyn, NY 11201

**CERTIFICATE OF APPROVAL # 6105A3  
(AMENDED)  
THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE  
and EXPIRES on OCTOBER 3, 2022**

By order of Fire Commissioner Daniel A. Nigro, and pursuant to Section FC 112 of the New York City New Fire Code, the following equipment or system is accepted for use provided the conditions as outlined below are in full compliance.

**Manufacturer:** Advanced Fire Alarm Systems, Inc.

**Trade Name:** Advanced Fire Alarm Systems, Inc.

**Product:** Fire Alarm Control Panels  
AxisAX Series Intelligent Fire Alarm Control Panels

**Basic Model Number(s):** AX-CTL-1C, AX-CTL-1, AX-CTL-1L, AX-CTL-2, AX-CTL-4, AX-CTL-1V, AX-CTL-2V, AX-CTL-4V, AX-CC1-16, AX-CC2-16, AX-CC4-14, CCM-01, CCM-02, AX-DGP-FACP  
(see Table 1 for more details)

**Pertinent Code Section(s):** Section FC 901 of the New York City Fire Code

**Test(s) Standards(s):** UL 864 9<sup>th</sup> Edition

**Laboratory:** Intertek Testing Services NA Inc. (ETL)

**Test Report(s):** Report No. 101564744NYM-001; Original issued: 31-Mar-2014; Revised: 30-Jun-2019  
Report No. 101564744NYM-001 (Replaces 3118002NYM-001B); Issued 10-22-07; Revised 01/12/17  
Report No. 3186781NYM-001; Issued 22-09-09; Revised 10/16/14  
Report No. 100027836NYM-001c; Issued 03-02-11; Revised 04/15/16  
Report No. 100027836NYM-002; Issued 07-27-2011  
Report No. 101294571NYM-001; Issued 10/21/2013; Revised 02/05/15  
Report No. 102445509NYM; Issued 01/28/2016  
Report No. 102136384CRT-2.1; Issued 06/05/2015  
Report No. 102136384CRT-2.2; Issued 06/19/2015

**Description:** Models No. AX-ACM-6, AX-PENN, AX-PENN/ST7, AX-LOC1, AX-LOC1/ST7, AX-LOC2, AX-LOC2/ST7, AX-LOC3, AX-LOC3/ST7, AX-LOC4, AX-LOC4/ST7  
Were added as per the amendment (see their short description in Table 1 as added).

**Fire Department, City of New York**

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The AxisAX Series is a family of intelligent life safety fire alarm control systems. The product ranges from a simple one-loop fire alarm control system to customized audio evacuation systems with voice paging, firefighter telephone communications, smoke control meets the equivalent requirements of UL Category UUKL and NFPA 92 and status and control LEDs/switches. These systems can exist as stand-alone or within a true peer-to-peer, token passing network system, capable of supporting 200 nodes. The following components (Table 1) are available for the AxisAX Series system and have been Listed by Intertek Testing Services Inc. (ETL)

Table 1

Part #	Description	New module
<i>AxisAX Series Fire Alarm Controls</i>		
AX-CTL-1C	AxisAX Series Single Loop Fire Alarm Control Panel with small compact enclosure, power supply/charger, 1 SLC, 2 NACs, 3 auxiliary relays (enclosure supports batteries 7Ah - 18Ah)	
AX-CTL-1	AxisAX Series Intelligent Single Loop Fire Alarm Control Panel with small AX Series enclosure, power supply/charger, 1 SLC, 2 NACs, 3 auxiliary relays (enclosure supports batteries 7Ah - 18Ah)	
AX-CTL-1L	AxisAX Series Intelligent Single Loop Fire Alarm Control Panel with standard AX Series enclosure, power supply/charger, 1 SLC, 2 NACs, 3 auxiliary relays (enclosure supports batteries 7Ah - 18Ah)	
AX-CTL-2	AxisAX Series Intelligent Fire Alarm Control Panel with cabinet, power supply/charger, 2 SLCs, 2 NACs, 3 auxiliary relays (cabinet supports batteries 7Ah - 18Ah)	
AX-CTL-4	AxisAX Series Intelligent Fire Alarm Control Panel with cabinet, power supply/charger, 4 SLCs, 4 NACs, 3 auxiliary relays, 5A expansion power supply (cabinet supports batteries 7Ah - 18Ah)	
AX-CTL-1V	AxisAX "V" Series Intelligent Single Loop Fire Alarm Control Panel with Integrated Audio/Microphone in standard AxisAX Series enclosure, power supply/charger, 1 SLC, 2 NACs, 3 auxiliary relays, 2 40 watt speaker circuits, 5A amplifier power supply charger, and microphone (enclosure does not support batteries use AX-BAT battery box)	
AX-CTL-2V	AxisAX "V" Series Intelligent Single Loop Fire Alarm Control Panel with Integrated Audio/Microphone in standard AxisAX Series enclosure, power supply/charger, 2 SLC, 2 NACs, 3 auxiliary relays, 2 40 watt speaker circuits, 5A amplifier power supply charger, and microphone (enclosure does not support batteries use AX-BAT battery box)	
AX-CTL-4V	AxisAX "V" Series Intelligent Single Loop Fire Alarm Control Panel with Integrated Audio/Microphone in standard AxisAX Series enclosure, power supply/charger, 4 SLC, 4 NACs, 3 auxiliary relays, 2 40 watt speaker circuits, 5A amplifier power supply charger, and microphone (enclosure does not support batteries use AX-BAT battery box)	
AX-CC1-16	AxisAX Series Command Center Single Loop Fire Alarm Control Panel with Integrated Audio/Microphone in 3x3 matrix AxisAX Series enclosure, power supply/charger, 1 SLC, 2 NACs, 3 auxiliary relays, 16 switch/48 LED switch	

Part #	Description	New module
	module, 2 40 watt speaker circuits, 5A amplifier power supply charger, and microphone (enclosure does not support batteries use AX-BAT battery box)	
AX-CC2-16	AxisAX Series Command Center Single Loop Fire Alarm Control Panel with Integrated Audio/Microphone in 3x3 matrix AxisAX Series enclosure, power supply/charger, 2 SLC, 2 NACs, 3 auxiliary relays, 16 switch/48 LED switch module, 2 40 watt speaker circuits, 5A amplifier power supply charger, and microphone (enclosure does not support batteries use AX-BAT battery box)	
AX-CC4-16	AxisAX Series Command Center Single Loop Fire Alarm Control Panel with Integrated Audio/Microphone in 3x3 matrix AX Series enclosure, power supply/charger, 4 SLC, 4 NACs, 3 auxiliary relays, 5A expansion power supply, 16 switch/48 LED switch module, 2 40 watt speaker circuits, 5A amplifier power supply charger, and microphone (enclosure does not support batteries use AX-BAT battery box)	
CCM-01	AxisAX Series 3x3 Modular Command Center can support one AxisAX Series Fire Alarm Control Panel, one 5A expansion power supply, one 2 x 40 watt speaker circuits, one 5A amplifier power supply charger, one microphone, one firefighter telephone, one 8 point relay, four point relay, modem and one digital dialer (enclosure can support batteries based on optional modules installed if no room use AX-BAT battery box) Available inner doors: CCM-01-ID1 (one double, seven single apertures) CCM-01-ID2 (two double, five single apertures) CCM-01-ID3 (nine single apertures)	
CCM-02	AxisAX Series 3x5 Modular Command Center can support one AxisAX Series Fire Alarm Control Panel, one 5A expansion power supply, two 2 x 40 watt speaker circuits, two 5A amplifier power supply charger, one microphone, one firefighter telephone, one 8 point relay, four point relay, modem and one digital dialer (enclosure can support batteries based on optional modules installed if no room use AX-BAT battery box) Available inner doors: CCM-02-ID1 (one double, thirteen single apertures) CCM-02-ID2 (two double, eleven single apertures) CCM-02-ID3 (fifteen single apertures)	
AX-DGP-FACP	AxisAX Series Data Gathering Panel – Accommodates AxisAX Series 1, 2 or 4 loop Fire Alarm Control Panel and any other AFSI Listed components	
AV-PHONE-NODE	Dedicated Firefighter Emergency Phone Node	
<i>AxisAX Series Fire Alarm Control Modules and Accessories</i>		
AX-DSP/T	Dedicated Firefighter Emergency Phone Keyboard Display	
AX-PSU	5 Amp Expansion Power Supply	
AX-LPD	2 SLCs, 2 NACs Expansion Module for Ax-2, Ax-2/D System	
AX-NAC	2 NACs Expansion Module for Ax-2, Ax-2/D System	
AX-NET7	Network Interface Card (Style 7)	
AX-NET4	Network Interface Card (Style 4)	
AX-LZA-100	100 Red Zone/Point LED Annunciator (front cabinet mount)	

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Part #	Description	New module
AX-LZA-200	200 Red Zone/Point LED Annunciator (front cabinet mount)	
AX-RL8	8-Way Relay Output Card (Programmable)	
AX-ANN-D	Remote Graphical LCD Annunciator w/o Control (Style 4)	
AX-ANN-D/ST7	Remote Graphical LCD Annunciator w/o Control (Style 7)	
AX-ANN-C	Remote Graphical LCD Annunciator w/Control (Style 4)	
AX-ANN-C/ST7	Remote Graphical LCD Annunciator w/Control (Style 7)	
AXS-002	Optional Keyswitch	
AXM-008	AX-ANN Optional Bezel	
AX-CTY	City Tie Module	
AX-MDM	Modem Card	
AX-RL4	4-Point Relay Card	
AX-LAN	LAN Interface Card [ipGateway] (Style 4)	
AX-LAN/ST7	LAN Interface Card [ipGateway] (Style 7)	
AX-RL10	10-Way Relay Output Card	
AX-I/O-48	Switch Input/LED Drive Output Module	
AX-ASW-16	Switch/LED Module	
AX-ACM-6	Fan/Damper Control Module	Added
AX-LED16RY	LED Module 16 Red, 16 Yellow	
AX-LED-32R	LED Module, 32 Red	
AX-LED-32Y	LED Module, 32 Yellow	
AX-LZA-CAB1	Local Zone Annunciator Cabinet, 1 Aperture	
AX-LZA-CAB2	Local Zone Annunciator Cabinet, 2 Aperture	
AX-LZA-CAB4	Local Zone Annunciator Cabinet, 4 Aperture	
AV-TEL	Telephone and Telephone Riser Module	
AV-TEL-MCCS	Multiple Command Center Firefighter Phone	
AV-TEL-RISE6	6-Way Multiple Telephone Riser Module	
AV-TEL6-REM	Remote 6-Way Riser Enclosure with Power Supply	
AV-TEL2-RISE	Firefighter Phone System2 Telephone Riser Module	
AV-TEL2-MCCS	Firefighter Phone System2 Multi Command Center Firefighter Phone	
AV-TEL2-MCCS/P	Firefighter Phone System2 Multi Command Center Firefighter Phone w/Push to Talk	
AV-TEL2-PPB	AV-TEL2-RISE Plug-in Audio Module	
AV-TEL2-CAB	Remote Cabinet w/Single AV-TEL2-RISE	
AV-TEL2-REM	Remote Enclosure w/Single AV-TEL2-RISE and AX-PSU-6 Power Supply Charger	
AV-TEL2-BB	Firefighter Emergency Phone Backbox	
AV-TEL2-BBM	Firefighter Emergency Phone Backbox w/Magnetics	
AV-TEL2-MB	Trim Ring for Firefighter Emergency Phone Backbox	
AV-TEL2-SWPB	Secondary Module Installed in AV-TEL2-CS1, -CS2, -CS3 and -CS4	

Part #	Description	New module
AV-TEL2-CS1	Secondary Handset/Chassis Assembly Coil Cord, Standard Phone	
AV-TEL2-CS2	Secondary Handset/Chassis Assembly Coil Cord, Push to Talk Phone	
AV-TEL2-CS3	Secondary Handset/Chassis Assembly Armored Cord, Standard Phone	
AV-TEL2-CS4	Secondary Handset/Chassis Assembly Armored Cord, Push to Talk Phone	
AV-TEL2-D1	Firefighter Emergency Phone Door (CAT 30 Lock)	
AV-TEL2-D2	Firefighter Emergency Phone Door for Magnetic Latch	
AV-TEL2-LP	Firefighter Emergency Phone Door Keylock Plate	
AV-TEL2-BG	Firefighter Emergency Phone Door Breakglass	
AV-TEL2-NCMS	Noise Canceling Microphone for Standard Phone Handset	
AV-TEL2-NCMP	Noise Canceling Microphone for Push to Talk Phone (PTT) Handset	
AV-TEL2-RC	Handset Retaining Clip	
AV-TEL2-P	Portable Firefighter Handset, Coiled Cord, ¼" Plug	
AV-TEL2-PT	Portable Firefighter Handset, Push to TALK (PTT), Coiled Cord, ¼" Plug	
AX-DCF	DC Supply Filter Module	
AV-CTEL	Conventional Phone Circuit Interface Module	
AV-CJACK	Conventional Phone Jack	
AX-CZM	Conventional Zone Module	
AX-DCI	Isolation Module	
AV-JACK	Firefighter Telephone Jack	
AV-TEL-SUP	Firefighter Warden Station Interface Module	
AX-MOXA	Fiber Optic Converter Module	
AX-012	Thermal Strip Printer	
D9068E	5pt Digital Alarm Communicator Transmitter	
D9068P	RS-232 Serial Digital Alarm Communicator Transmitter	
AX-SEB	Serial Expansion Board for D9068P DACT	
AX-048	Standalone Thermal Strip Printer	
AX-DGP	AxisAX Series Data Gathering Panel – Accommodates any AFSI Listed component	
AX-BMS	Building Management System Interface (Style 4)	
AX-BMS/ST7	Building Management System Interface (Style 7)	
AX-BAT	AxisAX Series Battery Box (supports up to 40Ah batteries)	
AX-ANN-TP	Remote Annunciator Tamperproof Enclosure	
AX-PENN	Peripheral Expansion Network Node (Style 4)	Added
AX-PENN/ST7	Peripheral Expansion Network Node (Style 7)	Added
AX-LOC1	Audio Local Operating Console (Style 4), 2x2 Inner Door	Added
AX-LOC1/ST7	Audio Local Operating Console (Style 7), 2x2 Inner Door	Added
AX-LOC2	Annunciator Local Operating Console (Style 4), 2x2 Inner Door	Added
AX-LOC2/ST7	Annunciator Local Operating Console (Style 7), 2x2 Inner Door	Added

Part #	Description	New module
AX-LOC3	Audio Local Operating Console (Style 4), 2x3 Inner Door	Added
AX-LOC3/ST7	Audio Local Operating Console (Style 7), 2x3 Inner Door	Added
AX-LOC4	Annunciator Local Operating Console (Style 4), 2x3 Inner Door	Added
AX-LOC/ST7	Annunciator Local Operating Console (Style 7), 2x3 Inner Door	Added
<i>AxisAX Series Compatible Addressable Devices</i>		
AX-APS-F1	AxisAX Series Intelligent Manual Pull Station, Single Action	
AX-APS-F2	AxisAX Series Intelligent Manual Pull Station, Dual Action	
AX-APS-F1-NYC	AxisAX Series Intelligent Manual Pull Station, Single Action, NYC White Stripe	
AX-APS-F2-NYC	AxisAX Series Intelligent Manual Pull Station, Dual Action, NYC White Stripe	
AX-APS-B1	Blue, AxisAX Series Intelligent Manual Pull Station, Single Action	
AX-APS-Y1	Yellow, AxisAX Series Intelligent Manual Pull Station, Single Action	
AX-APS-G1	Green, AxisAX Series Intelligent Manual Pull Station, Single Action	
AX-APS2-F1	AxisAX Series Intelligent Manual Pull Station, Toggle Switch, Single Action	
AX-APS2-F2	AxisAX Series Intelligent Manual Pull Station, Toggle Switch, Dual Action	
AX-APS2-F1-NYC	AxisAX Series Intelligent Manual Pull Station, Toggle Switch, Single Action, NYC White Stripe	
AX-APS2-F2-NYC	AxisAX Series Intelligent Manual Pull Station, Toggle Switch, Dual Action, NYC White Stripe	
AX-APS2-B1	Blue, AxisAX Series Intelligent Manual Pull Station, Toggle Switch, Single Action	
AX-APS2-Y1	Yellow, AxisAX Series Intelligent Manual Pull Station, Toggle Switch, Single Action	
AX-APS2-G1	Green, AxisAX Series Intelligent Manual Pull Station, Toggle Switch, Single Action	
56000-005ADV	Intelligent Polycarbonate Dual Action Pull Station	
56000-006ADV	Polycarbonate Pull Station Back Box	
55000-790ADV	AxisAX Dual Switch Monitor Module	
55000-805ADV	AxisAX Switch Monitor Module	
55000-806ADV	AxisAX Priority Switch Monitor Module	
55000-820ADV	AxisAX I/O Relay and Switch Monitor Module	
55000-825ADV	AxisAX NAC Controller Module	
55000-830ADV	AxisAX Mini Priority Switch Monitor Module	
55000-831ADV	AxisAX Mini Switch Monitor Module	
55000-863ADV	AxisAX Relay Output Module	
55000-859ADV	120 VAC I/O Module	
55000-765ADV	Mini Monitor Module	
55000-041ADV	Sounder (Open Area), Red	
55000-042ADV	Sounder (Open Area), White	

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Part #	Description	New module
58000-011ADV	Enhanced Open Area Sounder Beacon (Red)	
58000-012ADV	Enhanced Open Area Sounder Beacon (White)	
55000-877ADV	Red Beacon	
55000-878ADV	Clear w/Red LED Beacon	
55000-879ADV	Amber Beacon	
45681-525ADS	Sounder Beacon Base (Amber Beacon)	
45681-526ADS	Sounder Beacon Base (Red Beacon)	
45681-527ADS	Enhanced Sounder Beacon Base (Amber Beacon)	
45681-524ADS	Enhanced Sounder Beacon Base (Red Beacon)	
AV-TEL2-MWPB	Master Addressable Module Installed in AV-TEL2-CP1, -CP2, -CP3 and -CP4	
AV-TEL2-CP1	Master Addressable Handset/Chassis Assembly Coil Cord, Standard Phone	
AV-TEL2-CP2	Master Addressable Handset/Chassis Assembly Coil Cord, Push to Talk Phone	
AV-TEL2-CP3	Master Addressable Handset/Chassis Assembly Armored Cord, Standard Phone	
AV-TEL2-CP4	Master Addressable Handset/Chassis Assembly Armored Cord, Push to Talk Phone	
<i>AxisAX Series Audio</i>		
AV-VBM	Audio Panel w/Microphone	
AV-VB	Audio Booster	
AX-PSU-6	Power Supply Charger	
AV-AMP-80	Audio Amplifier	
AV-ZS	Audio Zone Splitter Module	
AV-ZS-CM	AV Splitter Switch Module	
AV-RMIC	All-Call Remote Microphone	
AV-V70	Universal Audio Converter (70 Vrms)	
AV-V70-KIT	Universal Audio Converter Add-On Circuit	
<i>AxisAX Series NAC Booster Panel</i>		
AX-PSN-64	Remote NAC & Power Supply/Battery Charger – 6Amp	
AX-PSN-106	Remote NAC & Power Supply/Battery Charger – 10Amp	
AX-PSN-6PCB	Remote NAC & Power Supply/Battery Charger – 6Amp (AX-DGP Mount)	
AX-PSN-10PCB	Remote NAC & Power Supply/Battery Charger – 10Amp (AX-DGP Mount)	

## Conditions of Approval:

1. All uses, configurations, arrangements and functions, application and installations shall comply with the provisions of New York City Construction Codes, specifically Building Code Chapter 9 & 1RCNY §3616-04. Further, the installation shall be in accordance with applicable provisions of New York City Fire Code, New York City Electrical Code, manufacturer's installation requirements, and UL Standard 864.

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2. The installation of Fire Alarm Control Panel must provide for fail-safe operation. This feature must assure that control of doors, locks, ventilation fans, and elevator recall will not be rendered inoperable in the event of a fire or power failure.
3. When used with a central office control communicator or a transmitter (DACT), the installation and operation of the equipment and devices shall comply with 3RCNY §901-01. It shall have the capability of transmitting separate and distinct signals to indicate manual pull station alarm, automatic detection alarm, sprinkler waterflow alarm, supervisory signal indications, and trouble indications. Using other technology that complies with 26.6 NFPA 72, 2010 edition shall be limited for **secondary means of communication**.
4. Annunciator is acceptable under the condition that this unit shall be used to acknowledge the alarm and all its control function, including alarm silence and panel reset shall be disabled.
5. LAN Interface Cards (AX-LAN, AX-LAN/ST7) and Network Interface Card (AX NET4, AX NET7) shall be limited for **secondary means of communication** and comply with 26.6 NFPA 72, 2010 edition.
6. Models with voice system shall have the capability of individual, group, or entire building notification of alarm tone and voice intelligibility.
7. Installation of prerecorded evacuation messages would require a prior approval from the Department.
8. Only fiber optic cables listed by Nationally Recognized Testing Laboratory (NRTL) and meeting the New York City Electrical Code requirements shall be used.
9. A listed barrier gateway, integral with or attached to each control unit or group of control units, as appropriate, shall be provided to prevent the other systems from interfering with or controlling the fire alarm system.
10. All enclosures shall be painted red in color, except when installed as part of Fire Command Center or approved by Fire Department.
11. The above referenced Fire Alarm Control Panels shall be used only with listed fire alarm equipment and devices, with which the compatibility has been determined by Intertek Testing Services NA Inc. (ETL) listing report.
12. Intertek Testing Services NA Inc. (ETL) listing requirements and limitations shall be complied with.
13. Certificate of Approval number shall be plainly and permanently stamped or otherwise fixed upon each product by the applicant.
14. The Fire Department's conditions of approval shall be enumerated in the installation manuals and brochures that will be provided to all New York City buyers and users.
15. Fire Department Certificate of Approval does not constitute an endorsement or recommendation of your product by the Fire Department, but is a certification that your product is acceptable as of the date of issuance.
16. The Fire Department reserves the right to withdraw this approval at any time in the event there is a reasonable doubt that the product does not operate or perform as required by code, the conditions of this resolution or as represented in your application.



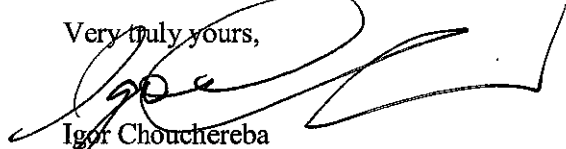
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17. As the manufacturer of this product, you should be aware that any end user who fails to comply with the condition as outlined in the approval would be subject to enforcement action, which may include fines and imprisonment.
18. This Certificate of Approval does not grant the right to use any trademark associated with the New York City Fire Department (the letters FDNY, the FDNY Shield design, the FDNY Maltese Cross design, and the seal of the City of New York). The unauthorized use of trademarks in connection with the sale of commercial goods or services violates federal and state laws.
19. Products marked to indicate the Certificate of Approval number might refer to the "NYC Fire Department" or "NYC Fire Dept" (e.g., "NYC Fire Dept Certificate of Approval #XXXX").

Any change in company name or ownership, product name, design or model number of any product included on this certificate must be immediately reported to this Department in writing.

When responding to this Department regarding this subject matter, kindly refer to F.P. Index # 1909043B and to Igor Chouchereba attention, 9 MetroTech Center #1S-44-K, phone (718) 999-0739.

Very truly yours,



Igor Chouchereba  
Supervisor of Electrical Installation, II  
Technology Management

c: Trushant Shah, Deputy Director of Engineering, Technology Management.