



FIRE DEPARTMENT

9 METROTECH CENTER

BROOKLYN, N.Y. 11201-3857

CERTIFICATE OF APPROVAL # 6173 THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE and EXPIRES on JUNE 24, 2017

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: Bosch Security Systems, Inc.

Trade Name: Bosch

Product: Fire Alarm Control Panel

Basic Model Number(s): FPD-7024

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

Test(s) Standards(s): UL 864 9th Edition

Laboratory: Underwriters Laboratories, Inc.

Test Report(s): UL S1871, issued 2011-08-01, revised 2013-09-14

Description: The FPD-7024 control panel provides up to 256 individually identified programmable points. The control panel includes communication modules that send events through public switched telephone network (PSTN), IP network, or cellular network.
 Internet and Cellular communication modules designed to transmit status of FACP directly to Central Station via Internet or Cellular network.
 UL lists the FPD-7024 as signal system control panel for central station, local, auxiliary, remote station, and proprietary.
 Model B450 Communicator Interface Module – The communication interface module employed a listed Cellular Modules, Models B440, B441, B443 to provide cellular communication for Bosch's listed panel, Model FPD-7024.
 FPD-7024 Control Panel along with associated modules itemized in Table 1.

Table 1.

	Bosch No.	Product Description	Prior Approval	UL File
1	FPC-7034	Four Point Expander	COA # 6024	
2	FMR-7033	Keypad	COA # 6024	
3	FMR-7036	Annunciator Keypad	COA # 6024	

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	Bosch No.	Product Description	Prior Approval	UL File
4	D7030X	Eight Point LED Annunciator	MEA 12-92-E Vol. 14	
5	D7030X-S2	Eight Point LED Annunciator	MEA 12-92-E Vol. 14	
6	D7030X-S8	Eight Point LED Annunciator	MEA 12-92-E Vol. 14	
7	D7031	Silence Reset Switch	MEA 12-92-E Vol. 14	
8	D7032	Eight Point LED Annunciator Expander	MEA 12-92-E Vol. 14	
9	D7035/B	Octal Relay	MEA 12-92-E Vol. 14	
10	D7048/B	Relay Module w/enclosure	MEA 12-92-E Vol. 14	
11	D132B	Reversing Relay module Smoke Detector	MEA 12-92-E Vol. 14	
12	D185	Reversing Polarity Module	MEA 12-92-E Vol. 14	
13	D7039	MUX Expansion Module	MEA 12-92-E Vol. 14	
14	D7042/B	Addressable Eight Point Module	MEA 12-92-E Vol. 14	
15	D7044	MUX Single Input Module	MEA 12-92-E Vol. 14	
16	D7044M	MUX Mini Contact Module	MEA 12-92-E Vol. 14	
17	D7052	MUX Dual Input Module	MEA 12-92-E Vol. 14	
18	D7053	MUX I/O Module	MEA 12-92-E Vol. 14	
19	D7050	Photoelectric type smoke detector	MEA 12-92-E Vol. 14	
20	D7050TH	Photoelectric type smoke detector with integral 135F heat detector	MEA 12-92-E Vol. 14	
21	D7050-B6	Detector mounting base	MEA 12-92-E Vol. 14	
22	FMM-7045	MUX addressable pull station	MEA 12-92-E Vol. 14	
23	DX4020	Network Interface Module	MEA 12-92-E Vol. 13	
24	C900V2	Dialer capture network Module	MEA 12-92-E Vol. 13	

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	Bosch No.	Product Description	Prior Approval	UL File
25	FPP-RNAC-8A-4C	Remote NAC Expander Power Supply	COA # 6024	
26	B450	Cellular Interface Module		S1871 Vol. 23 Sec. 1
27	B440	Cellular Module		S1871 Vol. 24 Sec. 1
28	B441	Cellular Module		S1871 Vol. 24 Sec. 1
29	B443	Cellular Module		S1871 Vol. 24 Sec. 1

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 & Appendix Q Section BC Q106, and New York City Electrical Code. Further, the installation shall be in accordance applicable provisions of New York City Fire Code, manufacturer's recommendations and UL Standard 864.
2. The installation and operation of the above referenced control units for central station monitoring of fire alarm system shall comply with 3RCNY R901-01. 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.
3. When installed as a Central Station Internet/Cellular communicator or transmitter **both primary and secondary channels of communication** shall be required and shall meet the conditions of 3.1 – 3.7. **Network communication shall be used as primary channel** of communication with Central Station and **Cellular Communicator shall be used as the secondary channel** of communication **or in reverse order**: Cellular Communicator as primary and Internet connection as the secondary channel.
 - 3.1. Each communication channel shall be monitoring for integrity at intervals not exceeding 24 hours
 - 3.2. Failure any channel of communication shall be annunciated at the protected premises within 5 minutes of failure
 - 3.3. The failure of either channel shall be annunciated at Central Station within 5 minutes of failure by the remaining active channel.
 - 3.4. Reliability of the signal shall be achieved by any of the following:
 - 3.4.1. Signal repetition — multiple transmissions repeating the same signal
 - 3.4.2. Parity check — a mathematical check sum algorithm of a digital message that verifies correlation between transmitted and received message

- 3.4.3. An equivalent means that provides a certainty of 99.99 percent that the received message is identical to the transmitted message
 - 3.5. The maximum duration between the initiation of an alarm signals at the protected premises, transmission of the signal, and subsequent display and recording of the alarm signal at the Central Station shall not exceed 90 seconds
 - 3.6. A spare Central Station Receiver shall be provided at the Central Station and shall be able to be switched into the place of a failed unit within 30 seconds after detection of failure
 - 3.7. All applicable requirements of Federal Communications Commission (FCC) shall be complied with.
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4. When installed as a standalone communicator or transmitter, all conditions outlined in items #2 and #3 shall be fully complied with. The primary and secondary power supply shall be in accordance with the requirements of the fire alarm system installed.
 5. 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.
 6. The FPD-7024 FACP shall not be installed as a part of Fire Command Center, but as a standalone communicator can be used in high-rise installations to communicate with Central Station
 7. All communication devices such as the wireless receiver, repeaters, antennas, control panel wiring, shall be installed and dedicated for communication and transmission of fire alarm system signals and shall be properly secured at all times from unauthorized use. All wiring used for network communications shall be plenum rated cable with a minimum temperature rating of 150°C.
 8. The above referenced Control Units shall be used only with listed fire alarm equipment and devices with which the compatibility has been determined by Underwriters Laboratories test reports.
 9. The connection of security/burglar devices and equipment to the fire alarm control unit is prohibited. A sign must be provided to indicate the same.
 10. Annunciator is acceptable under the condition that this unit shall be used to acknowledge the alarm and all its control functions, including alarm silence and panel reset shall be disabled.
 11. Only enclosures painted red in color shall be used.
 12. Underwriters Laboratories Inc.'s Listing requirements and limitations shall be complied with.
 13. All installations are subject to inspection, test, and approval from Fire Alarm Inspection Unit (FAIU).

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14. Any change in Central Station communication service provider shall be reported to FAIU and is subject to re-inspection, test, and approval.
15. Certificate of Approval number shall be plainly and permanently stamped or otherwise fixed upon each product by the applicant.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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 # 1405053A and to Igor Chouchereba attention, 9 MetroTech Center #1S-43-K, phone (718) 999-1997.

Very truly yours,



Shaji K. Joseph
Deputy Director of Engineering
Technology Management

c: Tamara Saakian, Director of Technology Management