

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT

This is to certify that
PROTECTION PROFESSIONALS
325 US Route One
FALMOUTH, ME 04105

For installation at
1592 FOREST AVE (1600)
RIVERTON SCHOOL

Job ID: **2012-07-4579-FAFS**

CBL: **299- D-046-001**

has permission to **install AES master box on existing fire alarm**

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

B. G. [Signature] (58)
Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Final Fire

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



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Director of Planning and Urban Development
Jeff Levine

Job ID: 2012-07-4579-FAFS
install AES master box on existing fire
alarm

For installation at:
1592 FOREST AVE (1600)
RIVERTON SCHOOL

CBL: 299- D-046-001

Conditions of Approval:

Fire

The installation shall comply with the following:

City of Portland Chapter 10, Fire Prevention and Protection;

City of Portland Fire Department Rules and Regulations;

NFPA 72, *National Fire Alarm and Signaling Code* (2010 edition), as amended by Fire Department Rules and Regulations; and

NFPA 70, *National Electrical Code* (2011 edition) as amended by the State of Maine.

The fire alarm system shall be certified by a master fire alarm company and have a new fire alarm inspection sticker.

In field installation shall be installed per code as conditions dictate.

All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".

A Knox Box is required.

System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

Fire Alarm system shall be maintained. If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576.

A master box connection and drill switch is required. AES Zones shall be:

1. Water flow
2. City Disconnect: Water flow
3. 1st FLR Pull stations and detectors
4. City Disconnect: 1st FLR Pull stations and detectors
5. 2nd FLR Pull stations and detectors
6. City Disconnect: 2nd FLR Pull stations and detectors
7. Not assigned
8. AES tamper switch

Master Box Approval

Applicant: Protection Professionals
App Phone #: 207-775-5755
Building Name: Riverton School
Building Address: 1600 Forest Ave
Occupancy: Public School
Assembly OL>300, 20 unit apartment building, etc.

Emergency Contact: use current
Emergency phone #: use current
Date of Application: 7/5/12
Billing Address: Portland Schools
196 Allen Ave
Portland, ME 04103
Comments:

Applicant completes red box and submits with Fire Alarm Permit

1

FIRE PREVENTION: Approved Denied
8 / 8 / 12 _____
Date Fire Prevention Officer
Zone 1: Water flow Zone 2: City disconnect - Water flow
Zone 3: 1st FLR Pulls and detectors Zone 4: City disconnect - 1st FLR Pulls and Detectors
Zone 5: 2nd FLR Pulls and detectors Zone 6: City disconnect - 2nd FLR Pulls and Detectors
Zone 7: Unassigned Zone 8: AES Tamper switch
Modify City Box response to alarm sounding in CAD: YES NO

2

FIRE ALARM: Box #: reuse box 3358

3

ELECTRICAL DIVISION: Approved Denied
Box Type: AES Radio Box / Other
New
Test Date: _____ / _____ / _____ In Service Date: _____ / _____ / _____
AES / Circuit if applicable: _____
Fire Alarm Technician

4

FIRE ALARM: Same Running Assignment As Box: _____
Notifications: All Stations Run Books Digitizer Computer Cad Box Test
 South Portland _____
Other Dispatcher

5

BILLING: Entered _____
Financial Officer

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No: 2012-07-4579-FAFS	Date Applied: 7/31/2012	CBL: 299- D-046-001	
Location of Construction: 1592 FOREST AVE	Owner Name: CITY OF PORTLAND	Owner Address: 389 CONGRESS ST PORTLAND, ME 04101	Phone:
Business Name:	Contractor Name: Rich Brobst @ Protection Professionals	Contractor Address: 325 US 1 FALMOUTH MAINE 04105	Phone: (207) 775-5755
Lessee/Buyer's Name:	Phone:	Permit Type: FIRE ALARM	Zone: R-3
Past Use: City School - Riverton	Proposed Use: Same: City School - to make alterations to fire alarm at FACP Panel	Cost of Work: \$3,000.00	CEO District:
		Fire Dept: 8/8/12 <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
		Signature: <i>[Signature]</i> (50)	Signature:
Proposed Project Description: Fire Alarm AES box only		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Brad		Zoning Approval	

<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>OK - WS</i> <i>8/1/12</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	Historic Preservation <input type="checkbox"/> Not in Dist or Landmark <input type="checkbox"/> Does not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:
	CERTIFICATION		

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the appication is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



Fire Alarm Permit

Entered 7/31/12 R-3
185

If you or the property owner owes real estate or property taxes or user charges on any property within the city, payment arrangements must be made before permits of any kind are accepted.

2012-07-4579 FAFS

Installation address: 1592 RIVINGTON SCHOOL
1600 FOREST AVE CBL: 299 D046

Exact location: (within structure) AT FACP PANEL

Type of occupancy(s) (NFPA & ICC): SCHOOL

Building owner: CITY OF PORTLAND

System Designer (point of contact): RICH BROBST
Must be

Designer phone: 775-5755 E-mail: RICK@PROTECTIONPROFESSIONALS.NET

Installing contractor: PROTECTION PROFESSIONALS Certificate of Fitness No: M101

Contractor phone: SAME E-mail: SAME

This is a new application: YES NO AES BOX ONLY

This is an amendment to an existing permit: YES NO Permit no: _____

The following documents shall be provided with this application:

- Floor plans
- Wiring diagram
- Annunciator details
- Equipment data sheets
- Battery & voltage drop calculations
- Input/ Output Matrix
- Designer qualifications
- Electrical Permit Pulled (check alarm/com)

RECEIVED
JUL 31 2012
Dept. of Building Inspections
City of Portland Maine

COST OF WORK: 3000
12300

PERMIT FEE: 50.00
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

The designer shall be the responsible party for this application. Download a new copy of this application at www.portlandmaine.gov/fire for every submittal. Submit all plans in electronic PDF in addition to full sized plans to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire alarm system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with the City of Portland Technical Standard for Signaling Systems for the Protection of Life and Property, available at www.portlandmaine.gov/fire.

Applicant signature: Doug Hanley Date: 7-31-12



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Receipts Details:

Tender Information: Check , Check Number: 11366
Tender Amount: 50.00

Receipt Header:

Cashier Id: bsaucier
Receipt Date: 7/31/2012
Receipt Number: 46520

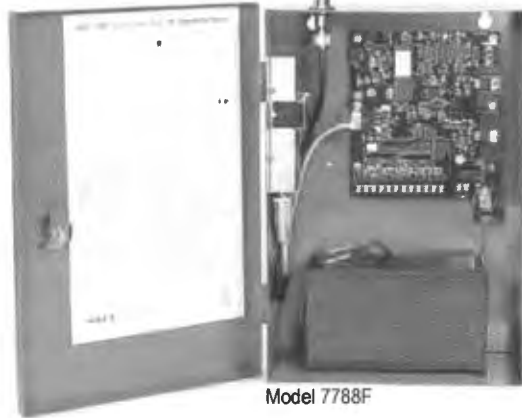
Receipt Details:

Referance ID:	7457	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	50.00	Charge Amount:	50.00
Job ID: Job ID: 2012-07-4579-FAFS - Fire Alarm AES box only			
Additional Comments: 1592 Forest Ave.			

Thank You for your Payment!

7788F/7744F Series

Wireless Fire Alarm Communicators for IntelliNet



Advanced Wireless Alarm Monitoring

As expensive dedicated landlines, required for UL864 compliance disappear, and the future of GSM for alarm transmission becomes increasingly uncertain, the AES IntelliNet mesh radio network continues to offer unmatched reliability and speed in delivering wireless alarm signals to a central station without any third-party fees or reliance on networks operated by companies outside the alarm industry. The 7788F/7744F Series Subscribers provide the wireless communications link between the fire alarm panel and the central station receiver. Ideal for most commercial fire alarm applications, each 7788F/7744F Series Subscriber is housed in a full-sized, red, locked steel cabinet and supports a range of alarm panel inputs, including EOL fire, EOL supervised, and direct voltage from the panel (non-fire applications).

Supervised Operation

AES Subscribers offer fully-supervised operation that includes monitoring of operating power (both primary AC and battery back-up) and the connection to the mesh radio network. Each subscriber "checks-in" with the AES central station receiver at least once every 24 hours. The supervision check-in time can be set to as often as needed for the application, as appropriate for the network. Because the central station operates the wireless network, there is no additional cost for air time to transmit supervisory signals.

Full Data Reporting from Alarm Panel Digital Dialer

Models 7788F-UPL and 7744F-UPL come equipped with an IntelliPro-Fire Full Data Module (AES-7794) which enables reporting of full alarm data captured from the alarm panel's digital communicator. IntelliPro-Fire supports most alarm communication formats including Contact ID, Pulse, as well as Bosch Modem IIe and Modem IIIa2 (when converted to Contact ID format).



Features – All models

- UL Listed commercial fire alarm applications.
- Meets NFPA 72 requirements
- Direct reporting to AES receiver across IntelliNet mesh radio network
- Each Subscriber acts as transmitter/receiver/repeater
- Simple and fast activation on network
- On board status LEDs for easy set up
- 8 programmable zone inputs – 7788F
- 4 programmable zone inputs and 4 reverse polarity inputs – 7744F
- Easy programming via AES handheld programmer or PC
- Rugged metal housing ideal for any commercial fire alarm application
- Narrowband compliant

Models 7788F/7744F-UPL with IntelliPro Fire also includes

- IntelliPro Fire transmits full alarm data from virtually any fire alarm panel digital communicator
- Alarm format support for Contact ID, Pulse, as well as Bosch Modem IIe and Modem IIIa
- Easy installation in AES subscriber
- Operates in applications with or without a phone line



Wireless mesh networking is an innovative technology adopted by many industries with applications that need to communicate data over a large geographic area with a high level of reliability at a low total cost of ownership.

The advanced design and 2-way communications capability provides easy installation, expansion, and management when compared to alternative communication methods, both wired and wireless.

7744F/7788F Series



Technical Specifications

7788F/7744F Series Subscriber

Dimensions

- 13.25"H x 8.5"W x 4.3"D
(34cm H x 21.5cm W x 11cm D)

Weight

- Approx. 7 pounds (3.2 kilograms),
excludes battery.

Radio Frequency

- Standard Frequency Range:
450-470MHz
(others available in 400-512MHz range)
- Output Power – 2 Watts

Antenna

- Included 2.5 db tamper resistant antenna
mounts on enclosure
- Multiple remote antenna options available

Power Input

- 16.5VAC, 40VA transformer (not included)
(AES 1640, ELK TRG1640, MG Electronics
MGT1640 – UL Listed for use)

Backup Battery

- Will charge 12V battery up to 7.5 AH. Requires
12VDC 7.5 AH battery for UL 864.

Alarm Signal Inputs (subscriber)

- 7788F – 8 individually programmable zones
- 7744F – 4 individually programmable zones
and 4 reverse polarity inputs

UL Standards

- UL 864 Edition 9 – Standard for Control Units
and Accessories for Fire Alarm Systems
- UL 365 – Standard for Police Station
Connected Burglar Alarm Units and Systems
- UL 1681 – Standard for Central Station Burglar
Alarm Units

Antenna Cut / Communication

Trouble Output

- Form C relay; fail secure;
rated for 24 VDC 1A resistive

Reset Button

- Located on main circuit board.

Operating Temperature

- 0° to 50° C (32° to 122°F)

Storage Temperature

- -10° to 60° C (14° to 140°F)

Relative Humidity

- 0 to 85% RHC, Non Condensing

AES-7794 IntelliPro Fire

Packaged with 7744F-ULP and 7788F-ULP

Input / Output Connections

- RJ11 connection to AES subscriber for module
data and power
- RJ11 connector for Handheld Programmer/PC
programming
- RJ31X Telco connections - T and R both in
and out via terminal strip and RJ45
- Alarm Panel digital communicator T and R
both in and out via terminal strip and RJ45
- Trouble output: Form C relay detects if
Subscriber is off the network

Alarm Formats

- Support for Contact ID and Pulse formats as
well as Modem IIe and Modem IIIa2 converted
to CID

Size

- 2.8 x 5.0 inches (7.1cm x 12.7cm)

Power Requirements

- 12 VDC nominal - primary and backup power
provided by the AES 7788F/7744F or other
Subscriber

How to Order

Model	Description
7744F	4 Zone Fire Alarm Subscriber with 4 reverse polarity inputs

7744F-ULP 7744F Fire Alarm Subscriber with
IntelliPro Fire full data module

7788F 8 Zone Fire Alarm Subscriber

7788F-ULP 7788F Fire Alarm Subscriber with
IntelliPro Fire full data module

Optional Accessories

7041E Subscriber Handheld Programmer

7794 IntelliPro Fire Full Data Module

1640 Plug-in Transformer: 16.5VAC, 40VA



AES-IntelliNet™ is the industry leader in delivering high-quality mesh radio networks to the fire and security industry in commercial, corporate, government, and educational applications with its broad line of products and advanced network management tools. Users of AES-IntelliNet networks have gained significant revenue, communications, and cost advantages while meeting the high standards of reliability required for the fire and security industry. AES-IntelliNet alarm monitoring systems are deployed at hundreds of thousands of locations in over 130 countries.



For more information
Call 800-AES-NETS (800-237-6387)

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