

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  
**142 HIGH ST**

Job ID: **2012-03-3519-FAFS**

CBL: **046- D-031-001**

has permission to **install master box fire alarm system**  
provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes 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

  
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**

# City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-04-3673-FAFS <i>See 2012-03-3519-FAFS</i>	Date Applied: 4/3/2012	CBL: 046-D-031-001	
Location of Construction: 142 HIGH ST	Owner Name: STONE COAST PROPERTIES	Owner Address: 142 HIGH ST STE 320 PORTLAND, ME 04101	Phone:
Business Name:	Contractor Name: Protection Professionals	Contractor Address: 325 US Route One, Falmouth, ME 04105	Phone: 207-775-5755
Lessee/Buyer's Name:	Phone:	Permit Type: FIRE ALARM - Fire Alarm	Zone: B-3
Past Use: Commercial	Proposed Use: Same - Commercial - install fire alarm	Cost of Work: 18000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved <i>w/conditions</i> <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
		Signature: <i>Bjorn</i> (58)	Signature:
Proposed Project Description: fire alarm		Pedestrian Activities District (P.A.D.)	

Permit Taken By:	<b>Zoning Approval</b>
------------------	------------------------

<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 information may invalidate a building permit and stop all work.</p>	<b>Special Zone or Reviews</b> <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>04/12/12 ARU</i>	<b>Zoning Appeal</b> <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:	<b>Historic Preservation</b> <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: <i>Any exterior work requires a separate review</i> <i>approval that historic preservation</i>
	<b>CERTIFICATION</b>		

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 application 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



# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life • [www.portlandmaine.gov](http://www.portlandmaine.gov)*

## Receipts Details:

**Tender Information:** Check , BusinessName: Protection Professionals, Check Number: 11052

**Tender Amount:** 200.00

## Receipt Header:

**Cashier Id:** gguertin

**Receipt Date:** 4/3/2012

**Receipt Number:** 42479

## Receipt Details:

Referance ID:	5920	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	200.00	Charge Amount:	200.00
Job ID: Job ID: 2012-04-3673-FAFS - fire alarm			
<b>Additional Comments:</b> 142 High			

Thank You for your Payment!

## BUILDING PERMIT INSPECTION PROCEDURES

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

or email: [buildinginspections@portlandmaine.gov](mailto: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.





# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life* • [www.portlandmaine.gov](http://www.portlandmaine.gov)

Director of Planning and Urban Development  
Penny St. Louis

**Job ID: 2012-03-3519-FAFS**  
**install master box fire alarm system**

**For installation at:**  
**142 HIGH ST**

**CBL: 046- D-031-001**

## **Conditions of Approval:**

### **Fire**

Installation shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.

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

All smoke detectors and smoke alarms shall be photoelectric.

Sprinkler supervision shall be provided in accordance with NFPA 101, *Life Safety Code*, and NFPA 72, *National Fire Alarm and Signaling Code*.

Occupant notification shall be in accordance with NFPA 101:9.6.3.5.

Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.

Central Station monitoring for addressable fire alarm systems shall be by point.

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.

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

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.

Fire alarm system requires a wireless master box connection per city ordinance. Masterbox design and installation shall be as approved by City Electrical Division.

AES Zones shall be

1. Water Flow
2. City disconnect: Water flow
3. Pull stations & detectors
4. City Disconnect: Pull stations & detectors
5. Unassigned
6. Unassigned
7. Unassigned
8. AES Tamper switch

Master Box Approval

Applicant: Protection Professionals

App Phone #: 207-775-5755

Building Name:

Building Address: 142 High St

Occupancy: Office Building  
Assembly OL>300, 20 unit apartment building, etc.

Emergency Contact: Perry Glidden

Emergency phone #: 207-772-1540

Date of Application: 2/20/12

Billing Address: Stone Coast Properties LLC  
142 High St, STE 513, Portland, ME 04101

Comments: Covers 142-150 High St. and 603-617 Congress St. Does not cover the State Theater at 609 Congress St.

**Applicant completes red box and submits with Fire Alarm Permit**

**1**

FIRE PREVENTION:

Approved

Denied

4 / 9 / 12

Date

*B. J. Wallace*  
Fire Prevention Officer

Zone 1: Water flow

Zone 2: City disconnect – Water Flow

Zone 3: Pulls and detectors

Zone 4: City disconnect – Pulls and Detectors

Zone 5: Unassigned

Zone 6: Unassigned

Zone 7: Unassigned

Zone 8: AES Tamper switch

Modify City Box response to alarm sounding in CAD:  YES  NO

**2**

FIRE ALARM:

Box #: \_\_\_\_\_

ELECTRICAL DIVISION:  Approved

Denied

Box Type: AES Radio Box / \_\_\_\_\_  
New Other

**3**

Test Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ In Service Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Fire Alarm Technician

AES / Circuit if applicable: \_\_\_\_\_

**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: 2012-03-3519-FAFS	Date Applied: 3/16/2012	CBL: 046- D-031-001	
Location of Construction: 142 HIGH ST	Owner Name: STONE COAST PROPERTIES LLC	Owner Address: 142 HIGH ST STE 320 PORTLAND, ME 04101	Phone:
Business Name:	Contractor Name: ROBERT M JR PEARSON @ PEARSON ELECTRIC	Contractor Address: 20 BIRCH TRL BUXTON MAINE 04093	Phone: 839-3223
Lessee/Buyer's Name:	Phone:	Permit Type: FIRE ALARM	Zone: B-3
Past Use:  First floor is retail and personal services with offices above	Proposed Use:  Same: retail and personal services with offices above – to install fire alarms	Cost of Work: \$54,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
		Signature: <i>[Signature]</i> (58)	Signature:
Proposed Project Description: fire alarm		Pedestrian Activities District (P.A.D.)	

Permit Taken By: Gayle	<b>Zoning Approval</b>
------------------------	------------------------

<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>	<p><b>Special Zone or Reviews</b></p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>___ Maj ___ Min ___ MM</p> <p>Date: <i>[Signature]</i> 3/16/12</p> <p style="text-align: center;"><b>CERTIFICATION</b></p>	<p><b>Zoning Appeal</b></p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p><b>Historic Preservation</b></p> <p><i>within</i></p> <p><input type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p><i>Any exterior work requires a separate review &amp; Approval</i></p> <p>Date:</p>
---	---	--	---

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 application 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

2012 03 31 66  
Electric Permits attached  
B-3

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.

Installation address: 142 High Street CBL: 046 D 031

Exact location: (within structure) same

Type of occupancy(s) (NFPA & ICC): business offices

Building owner: Stone Coast Properties, 142 High Street, Portland, Maine 04101

System Designer (point of contact): Rich Brobst, Jr  
Must be

Designer phone: 775-5755 E-mail: rich@protectionprofessionals.net

Installing contractor: Pearson Electric Certificate of Fitness No: M1001

Contractor phone: 839-3223 E-mail: \_\_\_\_\_

This is a new application: YES  NO  New AES Master Box: YES  NO   
(Include Master Box approval form)

Amendment to an existing permit: YES  NO  Permit no: \_\_\_\_\_

**The following documents shall be provided with this application:**

- Floor plans
- Wiring diagram
- Annunciator details
- Input/ Output Matrix
- Equipment data sheets
- Electrical Permit Pulled (check alarm/com)
- Scope of Work
- 11 1/2 x 17s
- pdf copy (may be e-mailed)
- Designer qualifications
- Battery/ voltage drop calcs

COST OF WORK: 54,000

PERMIT FEE: 560.00  
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

**RECEIVED**

**MAR 16 2012**

**Dept. of Building Inspections  
City of Portland Maine**

Master box approval only: YES  NO   
(If yes check New AES Master Box above)

The **designer** shall be the responsible party for this application. Download a new copy of this application at [www.portlandmaine.gov/fire](http://www.portlandmaine.gov/fire) for every submittal. Submit all plans in electronic PDF in addition to readable 11 1/2 x 17s 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](http://www.portlandmaine.gov/fire).

Applicant signature: RWB Date: 3-16-12



# Protection Professionals

325 US Route 1  
 Falmouth, ME 04105  
 Ph 207-775-5755  
 Fax 207-781-2064

# Device List

No. 3658

List Date
2/16/2012

<b>Bill To Name / Address</b> Stone Coast Properties, LLC Attn: Perry Glidden, Bldg Eng 142 High Street, Suite 320 Portland, ME 04101	<b>Job Site</b> Stone Coast Properties 142 High Street Portland, ME 04101
---	--

<b>CHANGING THIS DEVICE LIST DOES NOT ALTER THE ORIGINAL ESTIMATE</b> <b>Attach copy to Purchase Order for accounting</b>	Estimate No.  
--	----------------------

Item	Description	Qty To Order	Qty Ordered
599-050590	MPC6-EKIT, MPC-6000 FACP, 252 points, 2 NPE-1, 6 amps, 4 Class B NACs or 2 Class A NACs	1	
500-648953FA	Complete Enclosure Red for MPC-6000	1	
500-649120FA	Transformer To Expand NAC Power (6000 & 7000) NPE-1	1	
Bat 12-18	Battery	2	
500-649330FA	Dialer for MPC-6000 & MPC-7000	1	
IM-RJ31XSET	IM-RJ31XSET	2	
06-SSU00672	Fire Document box 12 inches wide X 13.1 inches high X 2.25 inches deep, CAT 30 keyed	1	
7788F	Wireless fire subscriber for City of Portland	1	
1640	16.5Volt AC 40 VA Class 2 Transformer	1	
Bat 12-7	12V 7AH Batteries	1	
7220-25-N	Cable ; 25 Ft. RG-58 BNC male--N male	1	
7210-6-UC	6 dB Omni , High Gain, Mast, In/Outdoor, 4.5 ft, UHF Antenna	1	
D8004	UL TRANSFORMER KIT	1	
Miscellaneous Materials	Master box bypass switches	1	
500-033300FA	8704 Module for Contact Devices with Relay	2	
DK-DTK120HW	DITEK AC SURGE PROTECTION	1	
500-648980FA	RDC-2 Remote Annunciator for MPC-6000 & MPC-7000 (two,lobbies, security area of State Theater)	3	
500-699639FA	12411014 - Surface Mount Box for a RDC-2	3	
500-033170FA	8709 Isolator Module	5	
500-648507FA	MANUAL PULL STATION DUAL ACTION KEY RESET CAST METAL (keyed as per Portland requirements)	35	
500-034000FA	8701 Mini-Module for Contact Devices	35	
500-033290FA	8713 Photo/Thermal Detector (FireSmart) elevators and alarm panel	35	
500-033380FA	8712 Thermal Detector	2	
500-094151FA	8853B - 2-WIRE SMOKE DETECTOR BASE	37	
500-033360FA	8703 Dual Module for Contact Devices	2	

Ordered By: \_\_\_\_\_

Date: \_\_\_\_\_

Received By: \_\_\_\_\_

Date: \_\_\_\_\_



# Protection Professionals

325 US Route 1  
 Falmouth, ME 04105  
 Ph 207-775-5755  
 Fax 207-781-2064

# Device List

No. 3658

List Date
2/16/2012

Bill To Name / Address
Stone Coast Properties, LLC Attn: Perry Glidden, Bldg Eng 142 High Street, Suite 320 Portland, ME 04101

Job Site
Stone Coast Properties 142 High Street Portland, ME 04101

**CHANGING THIS DEVICE LIST DOES NOT ALTER THE ORIGINAL ESTIMATE**  
**Attach copy to Purchase Order for accounting**

Estimate No.

Item	Description	Qty To Order	Qty Ordered
500-033300FA	8704 Module for Contact Devices with Relay (elevators)	8	
AX-AL802ULADA	NAC power supply, 8 amps, two Class A or four Class B circuits at 2.5 amps each, 1 amp Aux power	1	
Bat 12-7	Battery	2	
500-636169	Strobe only, red, wall mount, 15cd, 30cd, 75cd, or 110cd	23	
500-636161	ZH-MC-R Horn/strobe, red, wall mount, Hi or Lo volume, 15cd, 30cd, 75cd, or 110cd	70	
	State of Maine Sales Tax		

Ordered By: \_\_\_\_\_

Date: \_\_\_\_\_

Received By: \_\_\_\_\_

Date: \_\_\_\_\_

## Benjamin Wallace - 142 High St

---

**From:** Rich Brobst <rich@protectionprofessionals.net>  
**To:** Benjamin Wallace <WALLACEB@portlandmaine.gov>  
**Date:** 4/6/2012 10:10 AM  
**Subject:** 142 High St  
**CC:** "perry " <perry@statetheatrebuilding.com>, Perry Glidden <perry@stonecoa...>

---

Good day:

In response to your information request below:

1. Perry did a physical measurement at the highest point of the building and it is only 73 feet. We would be happy to meet you at the building to review if desired.
2. I sent to you already, please let me know if you received it OK. Sorry about the delay.
3. As discussed, we will not be connecting into the State Theater system. We will provide an additional annunciator to a location where the security is located whenever there is a concert in progress.

*Thank you for your time;*

*Rich Brobst, Jr  
NICET IV  
Master Electrician  
Protection Professionals  
325 US Route One  
Falmouth, Maine 04105  
207-775-5755  
Cell: 207-899-7761*

*This email was sent from the firm of Protection Professionals. It may contain information that is privileged or confidential. If you suspect that you were not the intended recipient, please delete it and notify us as soon as possible. Further dissemination, copying or distribution of this message or associated files is strictly prohibited. We do not accept responsibility for the security or safety of this message due to the vulnerability of the internet and the recipient should therefore exercise all due caution. Thank you.*

---

**From:** "Benjamin Wallace" <WALLACEB@portlandmaine.gov>  
**To:** "Rich Brobst" <Rich@protectionprofessionals.net>  
**Sent:** Wednesday, April 4, 2012 7:43:13 PM  
**Subject:** 142 High St

Rich,

Three things:

1. Our assessor's records indicates the building may be a high-rise but those records are known for being inaccurate from time to time. Please have Stone Coast document if this

is the case or not. If it is we'll (the FD, Stone Coast, and by extension Protection Professionals in so far as it effects the fire alarm) have to deal with that for issues such as FPE stamp, voice evac and sprinkler and standpipe systems.

2. I don't have the voltage drop and battery calcs.
3. Once you have these I'd like to have you come in and we'll go over this one last time so that I can issue the permit. I'm still not exactly clear if the State Theater is being tied in or how we addressed that. I know we talked about it but it was a while ago and my hard drive can't retain the details of all these discussions I've had.

Thanks,

Ben

Lt. Benjamin Wallace Jr.  
Fire Prevention Officer  
Portland Fire Department  
380 Congress Street  
Portland, Maine 04101  
(207)874-8400  
wallaceb@portlandmaine.gov

<b>MPC-6000</b>						
Quantity	Part #	Description	Standby	Alarm	Total standby	Total alarm
1	MPC-6000	Fire Panel	0.190	0.190	0.190	0.190
3	RDC-2	Annunicator	0.020	0.085	0.060	0.255
	RS-485	Graphic driver	0.005	0.085	0.000	0.000
1	MPC-DACT	Dialer	0.038	0.054	0.038	0.054
	CT-1K	City Tie Module	0.007	0.020	0.000	0.000
	SRU-2	Relay card	0.032	0.192	0.000	0.000
	SRE-8	Relay expander	0.000	0.160	0.000	0.000
	SLU-2	Annunicator card	0.018	0.040	0.000	0.000
	SLE-16	Annunicator card expander	0.005	0.000	0.000	0.000
35	8700-Series	Pull Station	0.000	0.000	0.035	0.035
	8701	Mini Module	0.000	0.000	0.000	0.000
	8702	Single input module	0.000	0.000	0.000	0.000
2	8703	Dual Module	0.000	0.000	0.000	0.000
10	8704	Relay module	0.000	0.000	0.010	0.010
	8705	Conventional (34mA aux)	0.000	0.000	0.000	0.000
	8706	NAC module	0.000	0.000	0.000	0.000
	8709	Isolator module	0.000	0.000	0.000	0.000
	8710	Smoke	0.000	0.000	0.000	0.000
35	8713	Smoke FireSmart	0.000	0.000	0.035	0.035
2	8712	Heat	0.000	0.000	0.000	0.000
	8853	Basic base	0.000	0.000	0.000	0.000
	8715	Audible base	0.000	0.000	0.000	0.000
	8743	Duct Detector	0.000	0.000	0.000	0.000
	8713	Duct smoke	0.000	0.000	0.000	0.000
	8704	Duct relay	0.000	0.000	0.000	0.000
	8730	Duct Remote	0.000	0.000	0.000	0.000
	8727	Remote light	0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000
			0.000	0.000	0.000	0.000
1		NAC power maximum	0.000	6.000	0.000	6.000
					0.000	0.000
					0.000	0.000
					0.000	0.000
		Miscellaneous			0.000	0.000
<b>TOTAL</b>			0.333	6.844	0.372	6.583

	Hours	Standby current		Total
	24	0.3720		8.928
Minutes		Alarm current		
5	0.08333	6.5830		0.549
		Battery Capacity		
	20%	9.4766		<b>11.372</b>



## Nac Power

Quantity	Part #	Description	Standby	Alarm	Total standby	Total alarm
1		NAC Power Supply	0.0300	0.0500	0.0300	0.0500
	ZR-MC-R	Strobe-15cd	0.0000	0.0640	0.0000	0.0000
	ZR-MC-R	Strobe-30cd	0.0000	0.0980	0.0000	0.0000
	ZR-MC-R	Strobe-75cd	0.0000	0.1750	0.0000	0.0000
	ZR-MC-R	Strobe-110cd	0.0000	0.2330	0.0000	0.0000
	ZR-HMC-R	Strobe-135cd	0.0000	0.3180	0.0000	0.0000
	ZR-HMC-R	Strobe-185cd	0.0000	0.4450	0.0000	0.0000
	ZH-MC-R	Horn/strobe-15cd	0.0000	0.0780	0.0000	0.0000
	ZH-MC-R	Horn/strobe-30cd	0.0000	0.1130	0.0000	0.0000
	ZH-MC-R	Horn/strobe-75cd	0.0000	0.1950	0.0000	0.0000
	ZH-MC-R	Horn/strobe-110cd	0.0000	0.2590	0.0000	0.0000
	ZH-HMC-R	Horn/strobe-135cd	0.0000	0.3710	0.0000	0.0000
	ZH-HMC-R	Horn/strobe-185cd	0.0000	0.5060	0.0000	0.0000
1		Maximum 10 amps	0.0000	10.0000	0.0000	10.0000
			0.0000	0.0000	0.0000	0.0000
	MH-R	Minihorns	0.0000	0.0260	0.0000	0.0000
	8715	Audible Base	0.0000	0.0240	0.0000	0.0000
		CO Detection	0.0200	0.0200	0.0000	0.0000
		Miscellaneous			0.0000	0.0000
		Miscellaneous			0.0000	0.0000
		Miscellaneous			0.0000	0.0000
		Miscellaneous			0.0000	0.0000
1	<b>TOTAL</b>	Miscellaneous			0.0000	0.0000
<b>TOTAL</b>			0.0500	12.9750	0.0300	10.0500


	Hours	Standby current		Total
	24	0.0300		0.7200
Minutes		Alarm current		
5	0.08333	10.0500		0.8375
		Battery Capacity		
	20%	1.5575		<b>1.8690</b>



## Nac Power

## MPC-6000 Intelligent Fire Alarm Panel

### Features

- One intelligent Signaling Line Circuit
- SLC loop supports up to 252 addressable Inputs AND signal/relay outputs (504 inputs/outputs total)
- Addressable devices are polarity insensitive
- Devices operate on standard wire-no twist or shield required
- FireSmart Application Specific fire detection
- 4 Class B/2 Class A notification appliance circuits
- Up to 6A NAC Power
- Built in strobe synchronization protocol
- 80 Character backlit LCD display
- Optional Peer-to-Peer networking using MPC-Net
- One man walk test (Silent or Audible)
- Auto Program Feature
- UP to 16 remote LCD Displays with control capabilities
- Programmable from front keypad, or Windows based PC programming software
- Maintenance and technician level passwords
- Optional internal DACT
- 2000 event history log
- Made in the USA, ISO 9001 quality crafted
-  UL 864 , MEA & CSFM Listed

### Description

The MPC-6000 is an advanced modular fire alarm panel. It features analog/addressable detection, programming, and memory capability. It's base configuration includes one analog/addressable loop, with four notification appliance output circuits.

Operating controls and indicators are mounted behind a locked cabinet door and an 80-character LCD display provides specific indications for addressable devices, while LEDs indicate general panel status.



**MPC-6000**

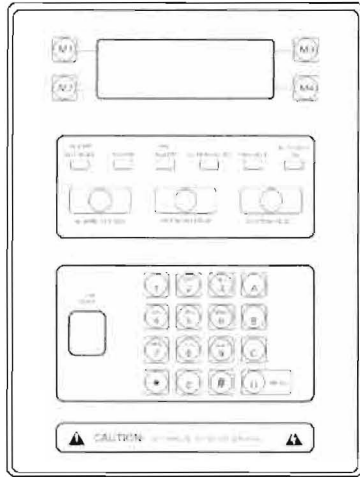
### Hardware Configuration

The main termination board mounts in the rear of the panel. The main power supply is physically contiguous with the main termination board. The MPC-6000 main termination board provides the interface for external system connections, the SLC loop interface PCB, four NAC circuits, remote signaling circuits and indicating interfaces.

The front Display Board mounts on a hinged front plate, which is located behind a locked cabinet door. Displays for any number of zones are handled through this board.

All normal operation is controlled from the front of the panel via membrane switches. Displays are provided by an 80-character, alphanumeric, backlit LCD display and by discrete LED indicators for major panel functions.

The 80-character LCD display is used to display event data, including alarms and troubles, supervisory identification of zone or device, and presentation of history. The menus are controlled by a set of four membrane switches commanding the control processor. A back light is included to assure visibility in low light, but to conserve power, it is only activated during a reported event.



### Minimum Control Unit Configuration

- A. Intelligent Signaling Line Circuit – The main termination board has addressable loop interface circuitry supporting one SLC loop. Devices are polarity insensitive and can operate on untwisted, unshielded wire.
- B. Notification Appliance Circuits – The base panel has four independent NACs. Each circuit can be selected to give continuous output, one of eight sounding patterns. NACs are style Z or Y capable, without additional modules.
- C. Dry Contacts – Four programmable form “C” dry relay contacts are provided.
- D. Remote Annunciation – The MPC-6000 panel will drive up to 16 annunciators and 8 remote processors on an RS-485 communication line.
- E. Power Supply – A 7A, 24V nominal power supply provides all operating power to the panel for both standby and alarm conditions.

### Auxiliary Devices

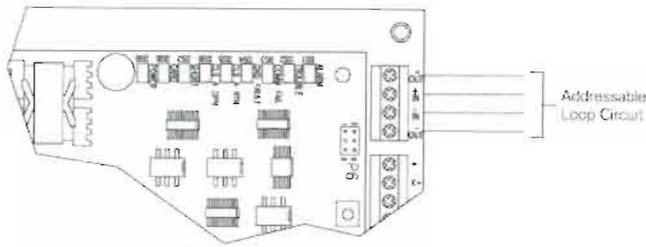
- A. Remote LCD Annunciator (RDC-2) – The remote LCD annunciator consists of a backlit 80 character, alphanumeric display, 4 menu buttons, 4 dedicated buttons for operator interaction, 6 LED indicators, and a security key switch.
- B. Serial Annunciator (SLU-2) – Consists of one remote processor and one annunciator driver board capable of providing 16 supervised outputs for LEDs or incandescent lamps. Expansion to drive 512 LEDs or lamps is via additional processor boards and annunciator drive boards (SLE-16).
- C. Serial Relay Unit (SRU-2) – Consists of remote processor and relay board which provides 8 relays with form “C” dry contacts rated at 1 amp. Expansion to 192 relays is via additional remote processor boards and relay boards (SLE-8).

### Optional Control Unit Configuration

- A. MPC-DACT – The MPC-DACT provides a dual line digital alarm communications transmitter. It's parameters are set via the control unit programming sequence.

The MPC-DACT is compatible with the following formats: SIA DCS 8, SIA DCS 20, Ademco Contact ID, 3/1 1400 Hz., 3/1 2300 Hz.,

# Wiring, Main Termination Board

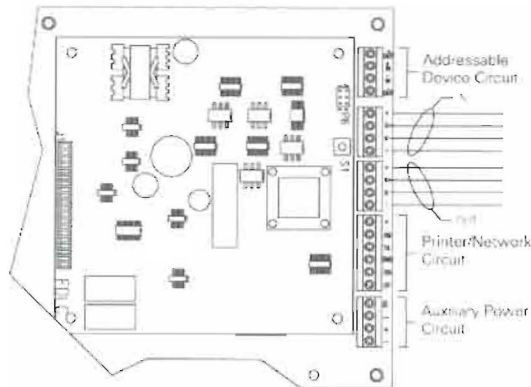
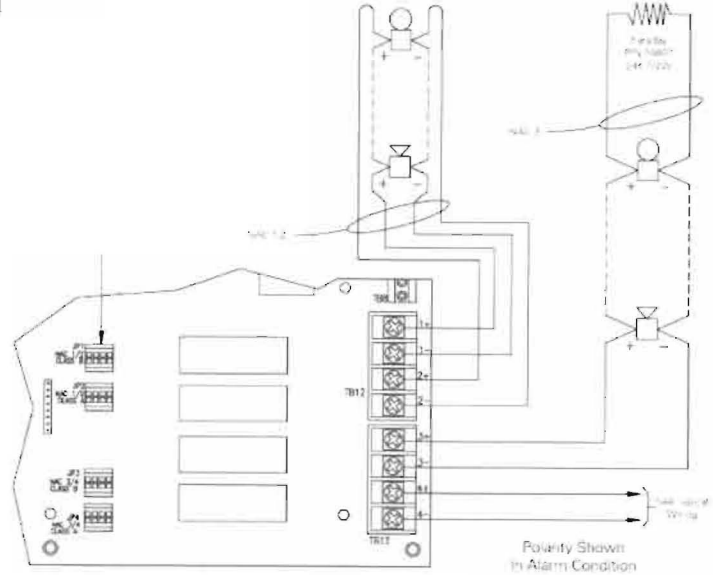


Addressable Device Circuit  
 Style 4 or 6 Operation  
 24VDC nominal  
 Wire Resistance-50 ohms max  
 (see Line Resistance Graph)  
 Supervised, Power limited  
 See Owner's Manual for Compatible Devices

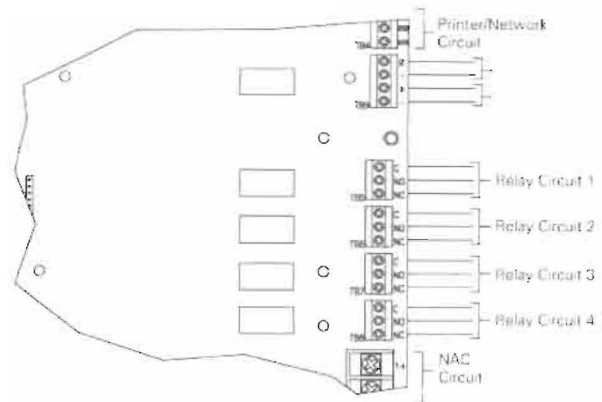
NAC Rating:  
 Alarm Voltage: 24V F.W. nominal  
 Max. Alarm Current: 1.5A/NAC circuit  
 Max. Ripple: 16VAC  
 Max. Wire Voltage Drop: 1.5VDC  
 Max. Standby Current: 1.0mA  
**NOTE:**  
 The maximum total current for the MPC-6000 NACs is 3.0A and 6.0A with the optional additional Transformer P/N NPL-1

Typical Notification Appliance Circuit Style Z, Class A  
 Supervised, Power Limited  
 See Owner's Manual for Compatible Devices

Typical Notification Appliance Circuit Style Y, Class B  
 Supervised, Power Limited  
 See Owner's Manual for Compatible Devices



Serial interface Circuit:  
 (X) 124VDC nominal, 0.4 max  
 (X+) RS-485 levels  
 Wire Type Twisted Pair For Data  
 Wire Resistance-11 ohms/line (4000 max)  
 Supervised, Power Limited.  
 See Owner's Manual for Compatible Devices



Auxiliary Power Outputs  
 0.4A max @24VDC nominal  
 Unsupervised, Power Limited  
 Maximum current of all auxiliary outputs circuits; Serial Interface Circuit and option boards is: 0.5A for the 6000, 1.0 A for the 7000

Status Relay Contacts  
 (Shown in normal standby condition)  
 1A 28VDC max Resistive For Power Limited Source, Unsupervised

## General Specifications

### Environmental

Operating temperature: 32-120°F (0-49°C)  
 Relative Humidity - 85% @ 86°F

### Primary Supply

Primary input voltage -  
 120 Vac (50/60 Hz.), 240 Vac (50/60 Hz.)  
 Maximum primary input current -  
 1.3 amp @ 120 Vac

### Secondary and Trouble Power Supply

24 volt lead-acid battery with 7 AH-38 AH capacity

### Auxiliary Power Outputs

Current - 0.5 amp resettable/non-resettable power outputs

### Status System Relays

4 relays rated @ 1 amp, 28 Vdc resistive

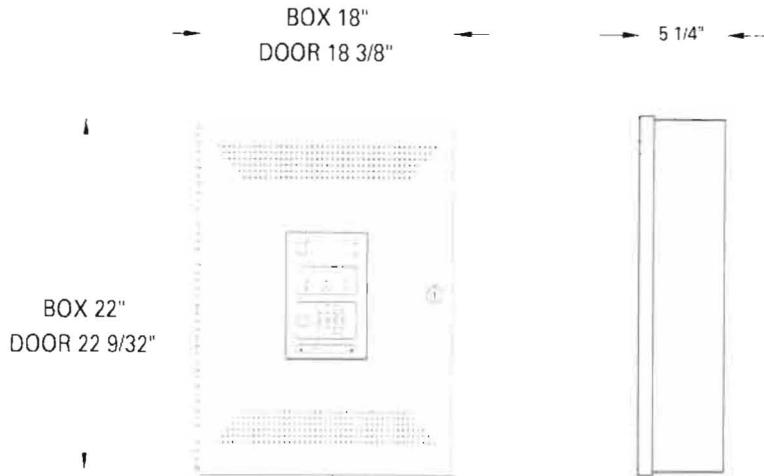
### NAC Circuits

Rating per NAC circuit, 1.5A ea., 6 max.

### Battery

Base cabinet will accommodate a 10 A battery set. Larger batteries will require separate enclosure

## Dimensions



## Ordering Information

Model	Description	Part No.
MPC-6000	MPC-6000 Single Loop Addressable Fire Alarm Panel, Red	599-049304FA
MPC-6000B	MPC-6000 Single Loop Addressable Fire Alarm Panel, Black	599-049303FA
<b>Options</b>		
RDC-2	Remote Annunciator	500-648980FA
NPE-1	Transformer to expand NAC power	500-649120FA
SRU-2	RS-485 Relay Card	500-649308FA
SRE-8	8 Relay Extender	500-649337FA
SLU-2	RS-485 LED Driver Card (16 Outputs)	500-649307FA
SLE-16	16 LED Driver Extender	500-649339FA
FAE-21	ACC. Enclosure for RS-485 Devices	500-401403014FA
MPC-DACT	Dialer for MPC-6000 and MPC-7000	500-649330FA
CT-1K	CityTie Module for MPC-6000 and MPC-7000	500-649336FA
SFTK-6R	Semi-Flush Trim for MPC-6000, Red	500-648955FA
SFTK-6B	Semi-Flush Trim for MPC-6000, Black	500-648954FA



Siemens Building Technologies, Inc.  
 8 Fernwood Road • Florham Park, NJ 07932  
 Tel: (973) 593-2600 • Fax: (973) 593-6670  
 Web: [www.faradayfirealarms.com](http://www.faradayfirealarms.com)

**WARNING** - The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.



## Series PM6600 & PM6700 Manual Non-Code Keyed Stations

### Features

- MM101 Key Switch Cover
- Sturdy Metal Construction
- Enclosed Switch with Optional Glass Rod
- 10 Amp @ 120 Vac, 5 Amp @ 24 Vdc Switch Contact Rating
- Stations Available are: Single Action, Dual Action, Pre-Signal / General Alarm, Institutional, Weatherproof, and Explosion Proof
- UL, CSFM Listed & MEA approved
- Made in USA

### Description

The PM6600/6700 series meets the requirements of the keyed reset station in every way. By using the standard Faraday MM101 series key, the user eliminates the need to search through many different reset keys. All stations are constructed of a solid die cast housing and come painted glossy red. The back switch plate is made of thick 14 Ga. plated steel and comes in a one gang size.

The electrical switch has a hefty 10 Amp @ 120 Vac normally open contact rating. All stations come with terminal block connections with the exception of the single action stations. These may be ordered with terminal blocks or pigtails (See ordering information for a more detailed description).

Explosion proof and weatherproof units come complete with their own back box. Optional PM6767 matching red surface interior back boxes are also available.

### Operation

#### Alarm

To activate the manual station, a firm downward pull of the recessed pull lever is required. Such action locks the lever in the down position, breaks the glass rod, (if used) and actuates the switch creating an alarm condition.

#### Reset

To restore an operated manual station to normal standby condition requires the use of a standard Faraday MM101 key. The lock, located at the top of the station, is turned with an inserted MM101 key.

PM6608/  
PM6700 (right) &  
PM 6696 (below)



This lets the front of the station swing down and allows the recessed pull down lever to be reset in the normal up position. Replacement of the glass rod (if used) is not necessary to reset the station. However, spare glass rods can be stored inside the station. To lock the station swing the front of the station back up to its original position and turn the MM101 key in the previously operated position.

### Engineering Specification

Furnish and install where located on the drawings Faraday non-code pull stations. The stations should be pull down operation type with operation instructions provided on the station in raised letters. The station should be of metal construction, finished in fire alarm red/white, and shall be capable of proper operation with or without a break glass rod. Stations using any plastic parts other than the switch body, or requiring the use of a break glass rod to maintain a standby condition shall not be acceptable.

Upon operation the pull down lever shall lock into the alarm position and remain so until manually reset. A common Faraday MM101 key shall be required to gain access for resetting the station, testing the station or replacing the glass rod. Stations with test features that do not test the actual station actuating switch shall not be acceptable.

Stations shall contain one or more normally open alarm contacts. Wiring to the fire alarm system initiating circuit shall be via pressure type screw terminals or pigtail wires with in and out wiring required.

## Specifications

### Electrical

Contacts – All contacts except General Alarm: 10A @ 120 Vac, General Alarm: 5A @ 30 Vdc

### Dimensions

4-3/4" (H) x 3-3/16" (W) x 7/8" (D)

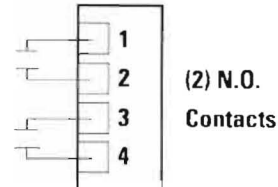
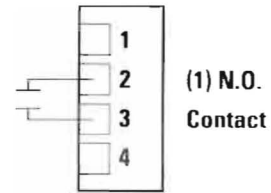
### Weight

15-1/2 oz.

### Mounting

Single gang box

## Wiring



## Ordering Information

Model	Description	Part No.
<b>Single Action Stations</b>		
PM6700	(RMS-1P-KL) Station, N.O., Pigtails	500-648504FA
PM6608	(RMS-1T-KL) Station, N.O., Terminals	500-648505FA
<b>Dual Action Stations</b>		
PM6696	(RMS-2T-LP-KL) Station, (2) N.O., Terminals	500-648507FA
<b>Pre-Signal/General Alarm Stations</b>		
PM6695	(RMS-1T-KS-KL) N.O. Pre-sig, N.O. Terminals	500-648265FA
<b>Weatherproof Stations</b>		
PM6699	(RMS-2T-WP-KL) (2) N.O. Terminals	500-648266FA
<b>Accessories</b>		
PM6698	(BB) Surface Back Box, Interior	500-648506FA
PM7601	Glass Rods (pack of 10)	500-648245FA
10531	(STI1130) Cover, surface mount w/horn	500-648563FA
10538	(STI1130) Cover, flush mount, w/ horn	500-648591FA
10539	(STI1200) Cover, flush mount, w/o horn	500-648253FA



Siemens Building Technologies, Inc.  
 8 Fernwood Road • Florham Park, NJ 07932  
 Tel: (973) 593-2600 • Fax: (973) 593-6670  
 Web: [www.faradayfirealarms.com](http://www.faradayfirealarms.com)

**WARNING** -The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.



# AL602ULADA, AL802ULADA, AL1002ULADA NAC Power Extenders

Rev. AL602/802/1002ULADA-A051

## Overview



The AL602ULADA, AL802ULADA and AL1002ULADA are extremely cost effective voltage regulated remote NAC Power Extenders. They may be connected to any 12 or 24 volt Fire Alarm Control Panel (FACP). Primary applications include Notification Appliance Circuit (NAC) expansion (supports ADA requirements) and will provide auxiliary power to support system accessories.

### AL602ULADA

- 24VDC or 12VDC rated @ 6.5 amp max.
- Two (2) Class A or four (4) Class B outputs.

### AL602ULADAJ

- Larger enclosure.

### AL802ULADA

- 24VDC or 12VDC rated @ 8 amp max.
- Two (2) Class A or four (4) Class B outputs.

### AL802ULADAJ

- Larger enclosure.

### AL1002ULADA

- 24VDC rated @ 10 amp max.
- Two (2) Class A or four (4) Class B outputs.

### AL1002ULADAJ

- Larger enclosure.

## Specifications

- Two (2) Class A or two (2) Class B FACP inputs.
- Two (2) NC dry contact trigger inputs (AL802ULADA and AL1002ULADA only)
- Two (2) Class A or four (4) Class B indicating circuits.
- Two (2) Class B outputs may be paralleled for more power on an indicating circuit.
- One (1) Aux. Power Output @ 1 amp supply current (w/battery back up).
- Signal Circuit Trouble Memory - facilitates quickly locating intermittent system trouble and eliminates costly and unnecessary service calls. LED's indicate a prior fault (short, open, ground) has occurred on one or more signaling circuit outputs.
- 2-wire Horn/Strobe Sync mode allows audible notification appliances (Horns) to be silenced while visual notification appliances (Strobes) continue to operate.
- Horn/Strobe sync protocols include: Gentex®, System Sensor®, Faraday, Amseco.
- Temporal Code 3 Mode.
- Steady Mode.
- Input to Output Follower Mode (maintains synchronization of notification appliance circuits).
- March Time.
- Compatible with 24VDC or 12VDC fire panels.
- Common trouble inputs and outputs.
- Ground fault detection.
- Input 115VAC.
- AC fail supervision (form "C" contacts).
- Low battery supervision (form "C" contacts).
- Battery presence supervision (form "C" contacts).
- Power supply, logic board, red enclosure, cam lock, transformer & battery leads.
- Enclosure:
  - Combination knockouts re 1/2" and 3/4"
  - Accommodates up to two (2) 12VDC/12AH batteries.

## Agency Approvals



UL Listed Control Units and Accessories for Fire Alarm Systems (UL 864), UL Listed Standard for Safety for Fire Protective Signaling Systems (UL 1481).



California State Fire Marshal Approved.



ME Approved NYC Department of Buildings Approved.



Factory Mutual Approved.



# Sequence of Operations

	Audio/visual activation	Activate audible/visual signal at FACP & Annunciator	Device Description at FACP & Annunciator	Shutdown of HVAC equipment	Log event in system history	Activate Elevator Fire Hat	Activate Elevator primary or secondary control	Activate Elevator shunt trip	Silence of audible devices Including FACP & annunciator	Release door holders	Release locked doors	Event acknowledgement	Reset of all system functions and all visual devices	Remote transmission to Central Station A=alarm; T=trouble; S=Supervisory; L = log only	Remote indicator	Master Box (AES box) activation
Manual Pull Stations	X	X	X		X					X	X			A		X
Smoke detectors common area	X	X	X		X					X	X			A		X
Smoke detectors elevator lobbies	X	X	X		X		X			X	X			A		X
Smoke Detectors elevator shaft/machine room	X	X	X		X	X	X			X	X			A		X
Duct mounted Smoke Detectors		X	X	X	X									S	X	
Heat Detectors common area/inside apartments	X	X	X		X					X	X			A		X
Heat Detectors Elevator shaft/machine room	X	X	X		X	X		X		X	X			A		X
Sprinkler flow or pressure switches	X	X	X		X					X	X			A		X
Sprinkler Tamper, low temp, or low air		X	X		X									S		
Secondary fire panel such as kitchen hood	X	X	X		X					X	X			A		X
FACP/annunciator silence button		X	X		X			X						L		
FACP/annunciator acknowledge button		X	X		X							X				
FACP/annunciator reset button		X	X		X								X	L		
Removal of any device		X	X		X									T		
Ground fault		X	X		X									T		
System wiring "open"		X	X		X									T		
AC Power loss		X	X		X									T		
Secondary power loss		X	X		X									T		
Telephone line loss		X	X		X									T		

**NO EXCUSES!**



NFPA 72 section 6.2.2.1 states, "A record of installed software and firmware version numbers shall be maintained at the location of the fire alarm control unit." The FDB is large enough to hold Operating Manuals, Permits, Shut-Down Instructions and more.

## Standard Features:

- Overall Dimensions are:  
12" Wide x 13.1" High x 2.25" Deep
- CAT 30 Secured Locking Door
- Piano Hinged Door w/Notes Sticker
- Removable document holder can hold 1" of 8.5" x 11" paperwork
- Powder Coat Red Finish
- 16 Gauge CRS construction
- Embossed:
  - Key Ring Hooks
  - Business Card Holder
  - CD Case Slot
- 1.4 Oz. can of detector test gas
- Private labeling available



ISO 9001  
REGISTERED  
COMPANY



**AcEBOX**

Space Age Electronics, Inc.  
www.1sae.com  
800.486.1723 Toll Free  
508.485.0966 Local  
508.485.4740 Fax

# FDB

## Fire Alarm Control Unit (FACU) Records & Document Box

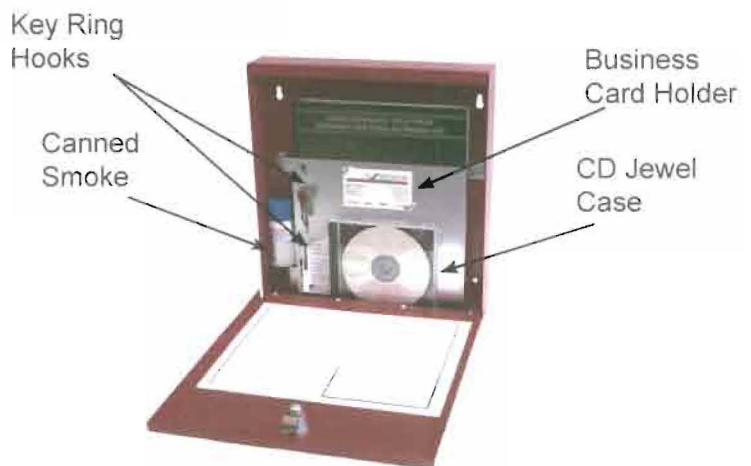
The Space Age FDB has been developed to be a code compliant solution to a mandated item specified by the National Fire Code (NFPA 72).

An internal galvanized sleeve holds the documents safely and securely. Access to the documents is via a high security CAT 30 Lock Set.

The galvanized sleeve also contains 2 hooks for key rings or thumb drives, a place for several business cards, a cutout for a 1.4 Oz. can of test gas and a slot where a standard CD "jewel" case can be stored.

Held in by two "wing nuts" the sleeve is easily removable to allow storage of a 1.5" 3 ring binder.

The door reads "FACU MAINTENANCE RECORDS" in 1" tall white lettering. Custom Logo and Lock Sets are available upon request.









# D8004 Transformer Enclosure



The D8004 Transformer Enclosure protects the AC plug-in transformer and ensures that it remains securely fixed to the AC wall outlet. The D8004 Transformer Enclosure may be required for certain applications; the most common being fire alarm.

## Certifications and Approvals

Region	Certification
USA	UL AMCX: Central Station Alarm Units (UL1610, UL1635), AOTX: Local Alarm Units (UL464, UL609), APAX: Police Station Alarm Units (UL365, UL464), NBSX: Household Burglar Alarm System Units (UL1023), UOXX: Control Unit Accessories, System (UL864, 9th edition), UTOU: Control Units and Accessories - Household System Type (UL985)
	FM
	CSFM 7167-1615: 100, 7165-1615: 112, 7165-1615: 119
	NYC-MEA 12-92-E, Vol. 12 12-92-E, Vol. 15

## Technical Specifications

### Environmental Considerations

Environment: Indoor, dry

### Mechanical Properties

#### Cover

Color: Light gray  
Dimensions: 8.8 in. x 4.7 in. x 3.0 in.  
(22.4 cm x 11.9 cm x 7.6 cm)  
Material: Cold-rolled steel, 18 gauge (1.2 mm)

#### Outlet Box

Dimensions: 8.7 in. x 4.6 in. x 1.7 in.  
(22.1 cm x 11.7 cm x 4.3 cm)  
Material: Galvanized steel, 18 gauge (1.2 mm)

### Power Requirements

Voltage (supply): 120 VAC

## Ordering Information

**D8004 Transformer Enclosure** **D8004**  
For applications such as fire alarm that might require a transformer enclosure.

# 7744F/7788F



## RF Subscriber Unit

UL Fire, AA Burglary and NFPA-72 Compliant

*UL Listed*

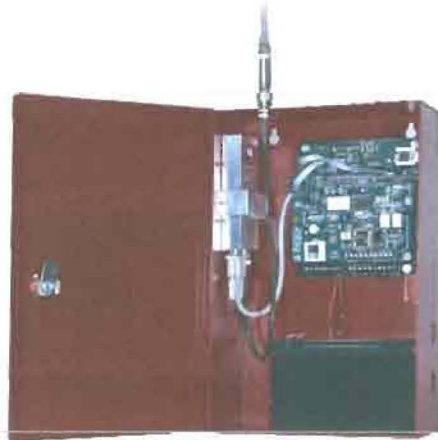
*UL Listed Central Station*

*Remote Station*

*864 Ed. 9, 827, 1610, 365, 681*

*CSFM*

*NFPA RF Section 8.6.3.5*



### Advanced Wireless Alarm Monitoring

The 7744F/7788F smart subscriber unit links an alarm panel to an alarm monitoring central station. This 2-way transceiver and repeater in one is housed in a full size locking steel cabinet for superior performance. The 7744F/7788F supports a wide range of inputs such as NO/NC/EOL and direct voltage. It automatically senses wire and antenna cuts, and monitors battery and AC power status. Advanced status reporting, self-diagnostics and a built-in power supply make the 7744F/7788F the first choice for all wireless alarm communication needs.

### Full Data for Fire and Burglary

Use with the optional FireTap for full fire data or the IntelliTap for full fire and burglary data.

#### Available Configurations

**7744F** – 4 reversing polarity inputs plus 4 programmable EOL inputs

**7788F** – Programmable EOL inputs with 8 zones

#### Available Options

- FireTap 7770
- IntelliTap 7067
- NEMA 4 Enclosure
- High Gain Antenna
- Additional Back Up Battery
- Available in Burglary Beige or Fire Red

- Options for Full Data for Fire and Burglary
- Available in 7744F & 7788F Zone Configurations
- Built-in Power Supply and Battery Charger
- Local Annunciation Options on Board



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

## RF Subscriber Unit

### Technical Specifications

#### Radio

Standard CSAA frequency ranges:  
450-470 MHz and 130-174 MHz, VHF  
and UHF. Others available

#### Standard Output Power

2 watts (requires FCC license)

#### Power Input

16.5 VAC, 40VA UL listed  
Class II transformer required

#### Voltage

12 VDC nominal

#### Current

175mA standby; 800mA transmit

#### Alarm Signal Inputs

- 4 individually programmable Zones:  
NO/NC/EOL, trouble restore
- RS-232
- Reversing voltage (7744F only) 12  
or 24 VDC

#### Operating Temperature Range

0° to 50°C, 32° to 122°F

#### Storage Temperature Range

-10° to 60°C, 14° to 140°F

#### Relative Humidity Range

0-85% RHC non-condensing

#### Back up Battery

12V, 7.5 Ahr

#### Low Battery Reporting

22.5-minute test cycle

#### AC Status

Reports to central station after  
approximately 60 minutes without AC  
power, reports power restored after  
approximately 60 minutes of restored  
power. programmable from 60 to 180  
minutes

#### Antenna Cut (local reporting)

Form 'C' Contact 1 AMP

#### Size

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

#### Weight

6.4 lbs, 2.9 Kilograms  
(excluding battery)

#### Colors

Available in standard  
Burglary Beige or Fire Red  
Please specify when ordering

#### Available Options

- 7788F RF subscriber unit  
with 8 EOL inputs
  - 7744F RF subscriber unit with 4  
EOL inputs and 4 reverse polarity  
inputs
  - 7770 - FireTap
  - 7067 - IntelliTap
  - NEMA 4 Enclosure
- Please specify when ordering

### Available configurations

- 7788F, 8 EOL inputs
- 7744F, 4 EOL inputs w/4  
reverse polarity inputs

AES *IntelliNet* is the industry leader in delivering high quality wireless mesh 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)

AES Corporation | 285 Newbury Street | Peabody, MA 01960 USA  
Tel. +1 978-535-7310 | Fax +1 978-535-7313 | Email [info@aes-intellinet.com](mailto:info@aes-intellinet.com)  
Web [www.aes-intellinet.com](http://www.aes-intellinet.com)

Copyright 2009 AES Corporation  
AES-*IntelliNet* is a registered trademark of AES Corporation

7744F/7788F/08/09



## Z Strobes, Horns, Horn/Strobes

### Features

- UL listed. ULC, CSFM, and FM pending.
- ADA/NFPA compliant
- EZ Mount design, with separate base plate, provides ability to pre-wire the base and test the circuit wiring before the walls are covered
- The base plate is protected by a disposable cover and the appliances can quickly snap onto the base after the walls are painted.
- EZ Mount Universal Mounting Plate (ZBB) – uses single plate for ceiling and wall mount installations
- Wall Mount models feature field selectable candela settings of 15/30/75/110cd and 135/185cd
- Ceiling Mount models feature field selectable candela settings of 15/30/75/95cd and 115/177cd
- Strobes can be synchronized using the Siemens 5406B sync modules, MPC-6000 panel, MPC-7000 panel, or RSE-300 power supply with built-in sync protocol
- "Special Applications" listed with Siemens panels
- Strobes produce 1 flash per second
- Selectable Continuous Horn or Temporal (Code-3) Tones with selectable 90 or 95 dBA setting (ZH model)

### Description

The Siemens Series Z notification appliances feature an easy snap on base that is designed to simplify the installation and testing of horns, strobes, and horn/strobes. The separate Series Z snap on base can be pre-wired so circuit wiring can be fully tested before the appliance is installed and before the walls are covered. Once all surrounding work is complete, the appliance can be simply installed by snapping it on the base. Shorting contacts in the base, which provide continuity for circuit testing, are permanently opened when the appliance is installed so any subsequent removal of the appliance will indicate a trouble condition on that circuit at the control panel when circuit supervision is enabled. The same base is used for all Series Z horns, strobes and horn/strobes to provide consistent installation and easy replacement of appliances if required. A locking screw is also included for the appliance to provide extra secure installation.

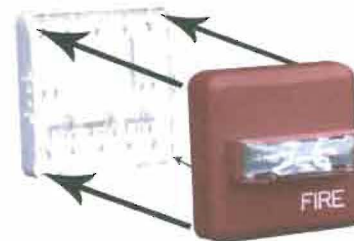
The Siemens Series Z appliances incorporate the same dependable circuitry and high efficiency optics that are used in Siemens ST strobes, NS horn/strobes and NH horns and have the same high performance ratings. The Series Z appliances are "Special Applications" listed with Siemens panels.



Series ZH



Series ZR



ZR AND ZH Mounting

### Engineering Specifications

#### General

Audible/visual notification appliances shall be listed for indoor use and shall meet the requirements of FCC Part 15 Class B. These appliances shall be listed under UL Standard 1971, (Standard for Safety Signaling Devices for Hearing Impaired) and UL Standard 464 (Fire Protective Signaling). The appliances shall use a universal backplate that shall allow mounting to a single-gang, double-gang, 4-inch square, 4" octal, or a 3-1/2" octal backbox. Two wire appliance wiring shall be capable of directly connecting to the mounting back plate. Continuity checking of the entire NAC circuit prior to attaching any audible/visual notification appliances shall be allowed. A dust cover shall fit and protect the mounting plate. The dust cover shall be easily removed when the appliance is installed over the backplate. Removal of an appliance shall result in a trouble condition by the Fire Alarm Control Panel (FACP).

#### Strobes

Strobe appliances shall produce a minimum flash rate of 60 flashes per minute (1 flash per second) over the Regulated Input Voltage Range and shall incorporate a

Xenon flashtube enclosed in a rugged Lexan® lens. The strobes shall be available with two or four field selectable settings in one unit and shall be rated, per UL 1971, for up to 185 cd for wall mounting and 177 cd for ceiling mounting. The strobes shall operate over an extended temperature range of 32°F to 120°F (0°C to 49°C) and be listed for maximum humidity of 95% RH. Strobe inputs shall be polarized for compatibility with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP).

#### Audibles and Audible/Strobe Combinations

Horns and horn/strobes shall be listed for Indoor use under UL Standard 464. The horns shall be able to produce a continuous output or a temporal code-3 output that can be synchronized. The horns shall have at least 2 sound level settings of 90 and 95 dBA.

#### Synchronization Modules

When synchronization of strobes or temporal Code-3 audibles is required, the appliances shall be synchronized using the Siemens 5406B sync modules, MPC-6000 panels, MPC-7000 panels, or RSE-300 power supplies with built-in sync protocol. The strobes shall not drift out of synchronization at any time during operation. Au-

dibles and strobes shall be able to be synchronized on a 2-wire circuit with the capability to silence the audible if required. If the sync module or power supply fails to operate (i.e., contacts remain closed), the strobes shall revert to a non-synchronized flash rate. All notification appliances shall be listed for "Special Applications".

- Strobes are designed to flash at 1 flash per second minimum over their "Regulated Input Voltage Range".
- All candela ratings represent minimum effective strobe intensity based on UL Standard 1971.
- Series ZH Strobe products are listed under UL Standards 1971 and 464 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93% (± 2%).
- Series ZH horns are listed under UL Standard 464 for audible signal appliances (Indoor use only).

### Technical Information

For complete technical information, please consult the relevant installation sheets as well as the Siemens Compatibility Guide.

### Ordering Information / Mounting Requirements / Approvals

Model Number	Order Code	Mounting Options#	Agency Approvals			
			UL	ULC	CSFM	FM
ZH-MC-R	500-636161	B, D, E, F	X	#	#	#
ZH-MC-W	500-636162	B, D, E, F	X	#	#	#
ZH-HMC-R	500-636163	B, D, E, F	X	#	#	#
ZH-HMC-W	500-636164	B, D, E, F	X	#	#	#
ZH-R	500-636159	B, D, E, F	X	#	#	#
ZH-W	500-636160	B, D, E, F	X	#	#	#
ZH-MC-CR	500-636165	B, D, E, F	X	#	#	#
ZH-MC-CW	500-636166	B, D, E, F	X	#	#	#
ZH-HMC-CR	500-636167	B, D, E, F	X	#	#	#
ZH-HMC-CW	500-636168	B, D, E, F	X	#	#	#
ZR-MC-R	500-636169	B, D, E, F	X	#	#	#
ZR-MC-W	500-636170	B, D, E, F	X	#	#	#
ZR-HMC-R	500-636171	B, D, E, F	X	#	#	#
ZR-HMC-W	500-636172	B, D, E, F	X	#	#	#
ZR-MC-CW	500-636174	B, D, E, F	X	#	#	#
ZR-MC-CR	500-636173	B, D, E, F	X	#	#	#
ZR-HMC-CR	500-636175	B, D, E, F	X	#	#	#
ZRS-HMC-CW	500-636176	B, D, E, F	X	#	#	#
ZBB-R	500-636193	Accessory - Includes base, dust cover, mounting screws and installation sheet				
ZBB-W	500-636194	Accessory - Includes base, dust cover, mounting screws and installation sheet				

X = listed/approved    # = pending    \* = Refer to Data Sheet #9675 for mounting options.

**WARNING: PLEASE READ THESE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS AND WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.**




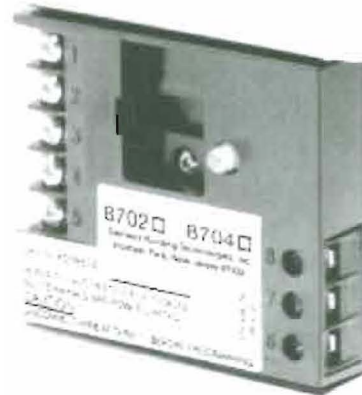
Siemens Building Technologies, Inc.  
 8 Fernwood Road • Florham Park, NJ 07932  
 Tel: (973) 593-2600 • Fax: (973) 593-6670  
 Web: [www.faradayfirealarms.com](http://www.faradayfirealarms.com)

## Monitoring Modules for MPC-6000 & 7000 Control Panels

### Features

#### Intelligent Interface Modules for 8702, 8703 and 8704

- Interfaces and Supervises Normally Open Contacts
- Integral SPDT Relay (up to 4 amps) on 8704 Model
- Dual Input on 8703 Model using a single address
- Polarity Insensitive Technology
- Multi-color L.E.D. indicates status (green, amber, red)
- Easy front access to programming port and wiring terminals
- Mounts 4 inch square 2 ¼ deep box, or double gang box
- Dynamic Supervision
- Comes with 5x5 inch faceplate
- Two wire operation
- 8720 Device Program/Test Unit programs and Verifies Device's Address and Tests Devices functionality
- Electronic Address Programming is Easy and Dependable
-  Listed, CFMS, NYMEA Approved



### Introduction

The 8702, 8703 and 8704 Intelligent interface modules are designed to provide the means of interfacing direct shorting devices to the MPC-6000 & 7000 Control Panels.

The X1 Series Intelligent interface modules provide the market's most advanced method of address programming and supervision, combined with sophisticated control panel communication. Each X1 Series interface module incorporates a microcomputer chip. The X1 Series microcomputer chip technology and its sophisticated bi-directional communication capabilities with the control panel, achieve the state of an "Intelligence Device."

### Description

The X1 Series intelligent interface modules are available in three models. The 8702 and 8704 are designed to monitor a normally open dry contact. The interface module reports the contact's status to the control panel. The 8702 model can only monitor and report the status of the contact, while the 8704 incorporates an addressable Form C relay. The

8704 relay and contact device input are controlled at the same address. For the control panel system, the relay and input contact can be controlled as a separate function. The relay is typically used where control or shunting of external equipment is required.

The 8703 is a dual input module and is designed to supervise and monitor two sets of dry contacts. The Dual Input Module only requires one address but responds independently to each input. The 8703 is ideal for monitoring a water flow switch and its respective valve tamper switch.

The module has a multi-color Light Emitting Diode that flashes green when operating normally, amber if unit is in trouble condition, and red to indicate a change of state. The 8704 red L.E.D. indicates a change of state in the relay.

The device's microcomputer chip has the capacity of storing, in memory, identification information as well as important operating status information.



FARADAY innovative technology allows all X1 Series intelligent interface modules to be programmed by using the 8720 Device Programming/ Test Unit. The 8720 is a compact, portable, menu driven accessory that makes programming and testing an interface device faster, easier and more dependable than previous methods. The 8720 eliminates the need for mechanical addressing mechanisms, such as program jumpers, DIP switches or rotary dials, because the 8720 electronically sets the address into the interface's micro-computer chip nonvolatile memory. Vibration, corrosion and other conditions that deteriorate mechanical addressing mechanisms are no longer a cause for concern.

The X1 Series modules are fitted with screw terminals for connection to an addressable circuit.

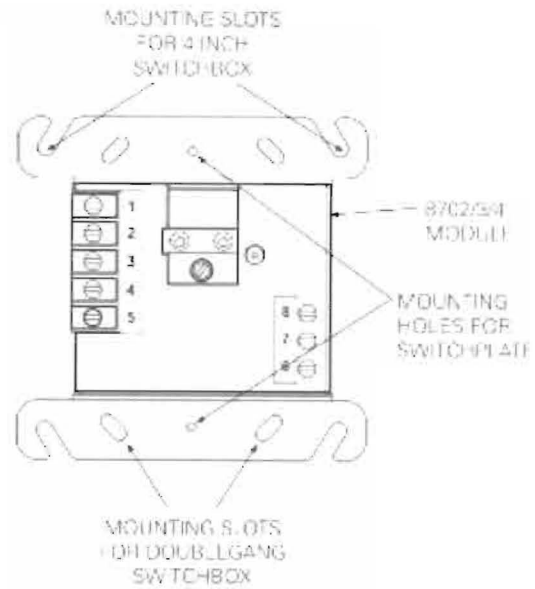
The X1 Series modules are fully compatible on the same circuit with intelligent detectors, addressable manual stations or other addressable intelligent modules.

All X1 Series intelligent interface modules are UL listed.

Environmental operating conditions for all 8700 Series modules are 32°F (°C) to 120°F (49°C) with a relative humidity of not greater than 93% non-condensating.

### Mounting Data

Addressable Interface Model 8702, 8703, 8704 mounts directly into a 4 inch square 2 ¼ deep box or a double gang box (user supplied). A 5 inch square off-white faceplate is included with each module.



**Figure A**  
**Mounting the 8702/3/4**

### Electrical Ratings

**Current Draw (Active or Standby):**  
1mA

#### 8704 Relay Ratings

**Resistive:**  
4A, 125 VAC  
4A, 30 VDC

**Inductive:**  
3.5A, 120 VAC (0.6PF)  
3.0A, 30 VDC (0.6PF)  
2.0A, 120 VAC (0.4PF)  
2.0A, 120 VAC (0.35PF)  
2.0A, 30 VDC (0.35PF)

### Ordering Information

Model	Description	Shipping Weight		Part No.
		Lb.	Kg.	
8702	Single Input	7 oz.	2	500-033370FA
8703	Dual Input	7 oz.	2	500-033360FA
8704	Single Input w/Relay	7 oz.	2	500-033300FA



Siemens Building Technologies, Inc.  
8 Fernwood Road • Florham Park, NJ 07932  
Tel: (973) 593-2600 • Fax: (973) 593-6670  
Web: [www.faradayfirealarms.com](http://www.faradayfirealarms.com)


**WARNING** - The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.



## 8701 Intelligent Monitoring Module

### Features

#### Intelligent Interface Modules for use with MPC-6000 & 7000 Control Panels

- Interfaces and Supervises Normally Open Contacts
- Compact Size Allows Mounting in Single Gang Box Behind Equipment
- Polarity Insensitive Technology
- Innovative Technology Supports Comprehensive System and Interface Communication
- Dynamic Supervision
- Two Wire Operation
- 8720 Device Program/Test Unit Electronically Programs and Verifies Device's Address and Tests Device's Functionality
-  Listed, CSFM and NYMEA Approved

### Introduction

The FARADAY 8701 Intelligent interface module is designed to provide the means of interfacing direct shorting devices to the MPC-6000 & 7000 initiating circuit.

The 8701 Intelligent interface module provides the market's most advanced method of address programming and supervision, combined with sophisticated control panel communication. Each 8701 interface module incorporates microcomputer chip technology and its sophisticated bi-directional communication capabilities with the control panel.

### Description

The 8701 is designed to monitor a normally open dry contact and reports the contact's status to the control panel.

The device's microcomputer chip has the capacity of storing, in memory, identification information as well as important operating status information.

FARADAY innovative technology allows all 8701 intelligent interface modules to be programmed by



using the 8720 Device Program/Test Unit. The 8720 is a compact, portable, menu driven accessory that makes programming and testing an interface device faster, easier and more dependable than previous methods. The 8720 eliminates the need for mechanical addressing mechanisms, such as program jumpers, DIP switches or rotary dials, because it electronically sets the 8701 interface's address into the interface's microcomputer chip non-volatile memory. Vibration, corrosion and other conditions that deteriorate mechanical addressing mechanisms are no longer a cause for concern. This 8701 is connected to the program/tester with the programming cable provided with the tester. This programming cable utilizes two (2) alligator clip connectors to attach to the 8701.

The 8701 Series has five leads, one for grounding, which are wired to the system with user supplied wire nuts.

---

The 8701 is fully compatible on the same circuit with detectors, addressable manual stations or any addressable intelligent modules.

All 8701 intelligent interface modules have been UL and ULC Listed.

Environmental operating conditions for all 8701 modules are 32°F (°C) to 120°F (49°C) with a relative humidity of not greater than 93% non-condensating.

## Ordering Information

Model	Description	Shipping oz.	Weight kg.	Part No.
8701	Single Input	3.5	.1	500-034000FA

## Electrical Ratings

Current Draw (Active or Standby): 1mA




Siemens Building Technologies, Inc.  
8 Fernwood Road • Florham Park, NJ 07932  
Tel: (973) 593-2600 • Fax: (973) 593-6670  
Web: [www.faradayfirealarms.com](http://www.faradayfirealarms.com)

**WARNING** - The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.

## Models 8710, 8712, 8713 (FireSmart™) X1 Series Detectors

### Features

#### Intelligent Detectors for use with MPC 6000 and 7000 Control Panels

- Three models available Photo (8710), Photo-Thermal (8713) and 135°F Thermal, fixed and rate of rise (8712)
- High-Speed, Fault-Tolerant Communication
- Multi-color status L.E.D (green, amber, red)
- Field cleanable photo chamber
- Electronic addressing with field programmer model 8720
- Mounts in standard 8853 Series Base
- Low Profile Design
- Optional fully programmable relay base, audible base and duct housing
- Two Wire Operation
-  UL Listed, CSFM, NYMEA and FM Approved

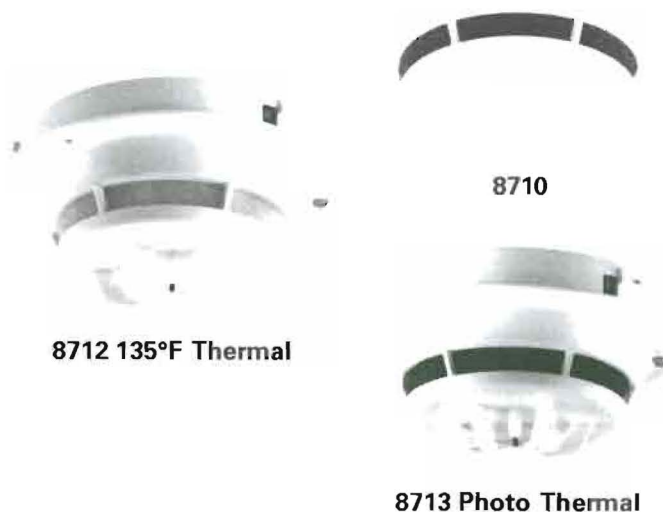
### Introduction

The 8710 and 8713 intelligent photoelectric smoke detectors provide reliable smoke detection to meet today's critical life safety and property protection needs. The FireSmart series of detectors provide an extremely high degree of resistance to RFI, EMI and humidity. The FireSmart series detector utilizes a microprocessor with "on-board" EEPROM supporting the detectors sophisticated programming, error checking and self-diagnostic capabilities.

The 8710 is an intelligent smoke detector, the 8713 is a smoke detector with thermal assist, and the 8712 is a heat detector. The thermal sensors respond at 135°F. These devices are designed for use with the MPC-6000 and 7000 control panels and use the 8853 detector base.

### Description

The 8710, 8712 and 8713 are two-wire, plug-in detectors that are compatible with the MPC-6000 and 7000 control panels. Each 8710 and 8713 have a dust resistant, field cleanable photo chamber and micro-processor based electronics. The 8712 and 8713 utilize a state-of-the-art thermistor for heat sensing. All detectors have low profile, high-temperature plastic covers for maximum protection of components and use surface mount electronic components for increased reliability. Every smoke detector is shipped with a red protective dust cover.



Smoke detectors utilize an infrared light emitting diode (IRLED) and a light sensing photodiode. Under normal conditions, light transmitted by the LED is directed away from the photodiode and scattered through the smoke chamber in a controlled pattern. The smoke chamber is designed to manage light dissipation and extraneous reflections from dust particles or other non-smoke airborne contaminants in such a way as to maintain stable, consistent detector operation. When smoke enters the chamber, light emitted from the IRLED is scattered by the smoke particles and is received by the photodiode.

When an alarm condition occurs, the detector "latches" in alarm and informed the control panel of its status. The detector is reset upon command from the control panel. The control panel also sets the detector's sensitivity.

Every time the control panel polls the detector, the multi-color LED will flash green to indicate that it has passed the internal self test and has communicated its status to the control panel. If the detector does not pass the self test, is dirty beyond the limits of its environmental compensation, or is in "trouble" in any way, the LED flashes amber and informs the panel of its status, allowing for easy identification of which detector is in trouble. When in alarm, the detector LED flashes red.



Detectors are assigned their address using the 8720 Field Programmer/Tester, which electronically stores address information in the detectors non-volatile memory. The 8720 can also be used for device testing and diagnostics.

The FireSmart series detectors can be on the same circuit as other 8700 series initiating devices such as manual stations, TRI Monitoring/Relay Modules, etc. Detectors are mounted in the standard 8853 or 8716 Relay Base, 8715 Audible Base, or 8840/8717 Duct Housing. Use the standard 8727C or 8727W (red) Remote Lamps when remote annunciation is required.

Smoke detectors are field cleanable per the instructions included on the installation sheet provided with the product. X1 series detectors are UL listed for operation within the standard UL specified temperature range of 32 to 100 degrees F (0 to 38 degrees C).

### Application Data

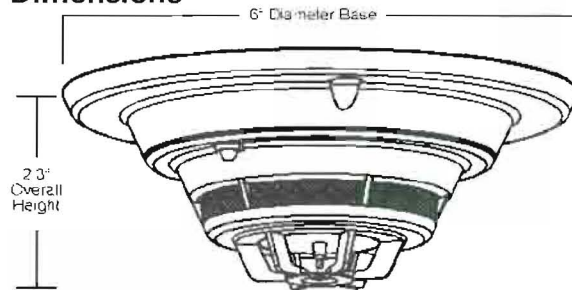
Installation of X1 series detectors require detector bases 8853, 8715, 8716, or 8840.

The 8710 and 8713 detectors can be applied within a maximum 30-foot center spacing (900 square foot area) as referenced in NFPA 72. This applications guideline is based on ideal conditions; specifically, smooth ceiling surfaces, minimal air movement and no physical obstructions between potential fire sources and the detector. Do not mount detectors in close proximity to ventilation or heating and air conditioning outlets. Exposed joints or beamed

ceilings may also affect safe spacing limitations of detectors. Should any questions arise regarding detector placement, observe NFPA 72 guidelines. Locating in close proximity to "noisy" electronic light ballasts or other sources of high level EMI or RFI should be avoided.

Good fire protection system engineering and common sense dictate how and when fire detection devices are installed and used. Contact your local Faraday authorized sales outlet whenever you need assistance applying these devices. Be sure to follow NFPA guidelines, the UL approved installation instructions provided with the product and local codes, as with any other fire protection equipment.

### Dimensions



### Technical Specifications

#### Operating Temperature

+32°F (0°C) to 100°F (38°C) per UL 269/268A

#### Humidity

0-93% Relative Humidity Non-Condensing

#### Current Draw

1 mA in alarm or stand-by mode

### Ordering Information

Model	Description	Part No.
8710	Photoelectric Detector	500-034800FA
8713	Photo-Thermal Detector (FireSmart™)	500-033290FA
8712	135°F Fixed Thermal Detector	500-033380FA
8715	Audible Base	500-033210FA
8853	Detector Base	500-094151FA
8840	Air Duct Housing	500-095656FA
8717	Air Duct Housing with Relay	500-033280FA
8716	Relay Base	500-033220FA
8727W	Remote Lamp (red) for 4" octagon box	500-033310FA
8727C	Remote Lamp (red) for single gang box	500-033230FA
8720	Field Programmer	500-033260FA
8846	Detector base lock (Pkg. of 50)	500-695350FA



Siemens Building Technologies, Inc.  
 8 Fernwood Road • Florham Park, NJ 07932  
 Tel: (973) 593-2600 • Fax: (973) 593-6670  
 Web: [www.faradayfirealarms.com](http://www.faradayfirealarms.com)

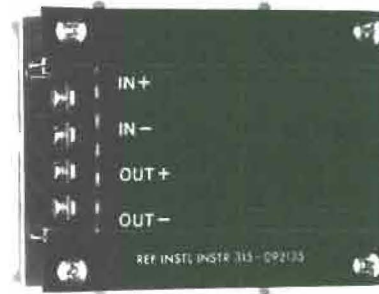
**WARNING** - The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.



## 8709 Line Isolator Module for Use With MPC-6000 & 7000 Control Panels

### Features

- Short Circuit Isolation
- Used on MPC-6000 & 7000 Intelligent Device Circuits
- Increased Fault Tolerance
- Style 4 or Style 6
- Up to 12 Per Loop
- Requires no Programming
- Does Not Occupy a Device Address
- Mounts in Either 4" Square, 2 1/8" Deep or a 3 1/2" Deep Double Gang Electrical Box
- Local LED Indicator
- Cover Plate Included
- Listed, NYMEA and CSFM Submitted



### Description

The 8709 loop isolator module provides short circuit protection on MPC-6000 & 7000 intelligent device circuits (FDLC). When a short is detected by the 8709, it isolates the affected segment of the circuit, allowing the remaining devices to continue operation. The 8709 is self-restoring, automatically reconnecting to circuit segment when the fault is removed.

The 8709 also includes a yellow LED which illuminates to indicate that the device has been activated. The 8709 mounts in either a 4" square, 2 1/8" deep or a 3 1/2" deep double gang electrical box and is supplied with a cover plate with an opening for the LED.

It can be wired in either a Style 4 or Style 6 configuration.

The 8709 does not occupy a device address on the intelligent device circuit and requires no programming. Up to twelve 8709s may be installed on each loop.

### Ordering Information

Model	Description	Part No.
8709	Line Isolator Module	500-033170FA



# DTK-HW Series

## Equipment Panel/Dedicated Circuit Surge Protector General Product Specifications

DITEK's HW series of surge protection are designed and manufactured to meet the exacting standards of the life safety industry. These compact parallel mount surge protectors are widely used to protect fire alarm panels and other dedicated branch circuit loads.



**DTK-120HW**     **DTK-120/240HW**  
**DTK-240HW**

**Product Features**

- Diagnostic LED indicates ground presence, system power and SPD function
- Small footprint enables installation in a variety of locations
- Available for popular 120V, 120/240V and 240V single-phase systems
- Ten Year Limited Warranty

Model Selection: DTK-	System Voltage	MCOV	UL 1449, 2 <sup>nd</sup> Ed. S.V.R.
120HW	120VAC	130V	400V
120/240HW	120/240VAC	130V/250V	n/a
240HW	240VAC	250V	n/a

**Specifications**

**Agency Approvals:** UL 1449, 2<sup>nd</sup> Edition 2007, cUL (DTK-120HW)

**IEEE Location Categories:** Cat. A & Cat. B

**Suppressor Type:** Parallel configuration, external mount

**Peak Surge Current:** 22,500A (DTK-120HW)  
27,000A (DTK-120/240HW)  
13,500A (DTK-240HW)

**Protection Modes:** L-G, L-N, N-G

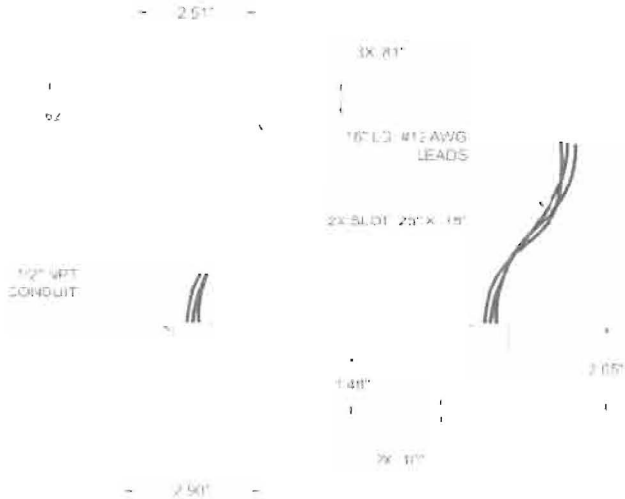
**Temperature Range:** -40C to +85C

**Operating Frequency:** 0Hz – 400Hz

**Dimensions:** 2.9" x 1.6" x 2.1"  
(73.7mm x 40.6mm x 53.3mm)

**Weight:** .5lb. (227g)

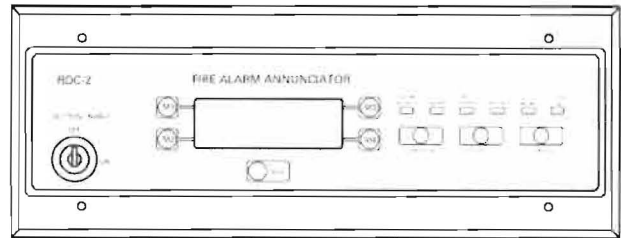
**Housing:** NEMA 4 ABS



## Model RDC-2 Remote 80 Character LCD Annunciator

### Features

- 80 character, alphanumeric backlit display
- Mounts to 6 gang or 12411 surface box
- Contains four (4) menu buttons, four (4) dedicated buttons for operator interaction, six (6) LED indicators and a security key switch
- UL listed, standard 864



**RDC-2 Annunciator**

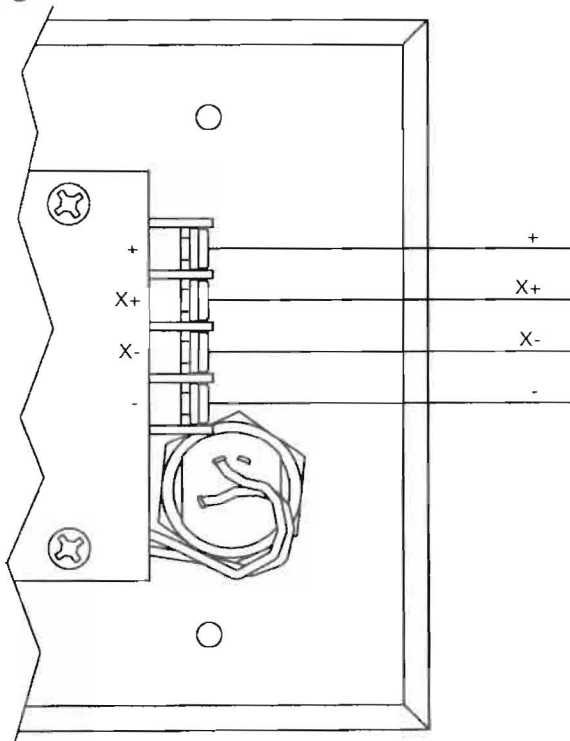
### Description

The RDC-2 remote LCD annunciator is an optional accessory for the MPC-6000 and MPC-7000 Fire Alarm Control Panels from Faraday. It provides a 80 character LCD display along with the system status LEDs. The button enable keyswitch allows system reset, trouble silence/acknowledge, alarm silence and menu access. The lamp test operation is also enabled by the keyswitch, but the function is

limited to the annunciator. The annunciator mounts to a horizontally mounted 6-gang box, 2" deep minimum. The Faraday part number 12411 Surface Backbox may be used for surface mounting.

Up to 16 annunciators may be addressed by the communications circuit.

### Typical Wiring



Cable for power (+ & -) and Twisted pair Cable for data (X+ & X-) from panel or previous remote and to next remote or 120 ohm termination resistor on the last remote.

## General Specifications

### Environmental

Operating Temperature:

32-120°F (0-49°C)

Relative Humidity: 85% @ 86°F

### Power Consumption

Alarm: .025 Amp

Standby: .020 Amp

### Transmission Format

Multiplexed, supervised style "W," power limited

### Display

80 character, alphanumeric, backlit

### Wiring

(2) pair, no. 18 awg. min., 4000 ft. max.,  
daisy chained, no t-taps

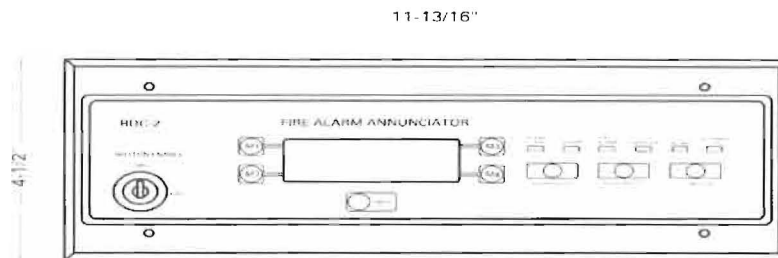
### Mounting

6 gang box (supplied by others)

### Shipping Weight

2 lbs. approx.

## Dimensions



## Ordering Information

Model	Description	Part No.
RDC-2	Remote 80 character LCD annunciator	500-648980FA
<b>Options</b>		
12411014	Surface mount back box	500-699639FA



Siemens Building Technologies, Inc.  
8 Fernwood Road • Florham Park, NJ 07932  
Tel: (973) 593-2600 • Fax: (973) 593-6670  
Web: [www.faradayfirealarms.com](http://www.faradayfirealarms.com)

**WARNING** -The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.



# ELECTRICAL PERMIT

## City of Portland, Me.



1079

To the Chief Electrical Inspector, Portland Maine:  
 The undersigned hereby applies for a permit to make electrical installations  
 in accordance with the laws of Maine, the City of Portland Electrical Ordinance,  
 National Electrical Code and the following specifications:

Date 3/16/12  
 Permit # 2012 03 3519  
 CBL# 046 D03

LOCATION: 142 High St. METER MAKE & # \_\_\_\_\_  
 CMP ACCOUNT # \_\_\_\_\_ OWNER STONECOAST PROPERTIES  
 TENANT \_\_\_\_\_ PHONE # \_\_\_\_\_

**TOTAL EACH FEE**

<b>OUTLETS</b>	Receptacles	Switches	Smoke Detector	.20	
<b>FIXTURES</b>	Incandescent	Fluorescent	Strips	.20	
<b>SERVICES</b>	Overhead	Underground	TTL AMPS <800	15.00	
	Overhead	Underground	>800	25.00	
<b>Temporary Service</b>	Overhead	Underground	TTL AMPS	25.00	
				25.00	
<b>METERS</b>	(number of)			1.00	
<b>MOTORS</b>	(number of)			2.00	
<b>RESID/COM</b>	Electric units			1.00	
<b>HEATING</b>	oil/gas units	Interior	Exterior	5.00	
<b>APPLIANCES</b>	Ranges	Cook Tops	Wall Ovens	2.00	
	Insta-Hot	Water heaters	Fans	2.00	
	Dryers	Disposals	Dishwasher	2.00	
	Compactors	Spa	Washing Machine	2.00	
	Others (denote)			2.00	
	<b>MISC. (number of)</b>	Air Cond/win			3.00
		Air Cond/cent		Pools	10.00
	HVAC	EMS	Thermostat	5.00	
	Signs			10.00	
	Alarms/res			5.00	
	X Alarms/com			15.00	
	Heavy Duty(CRKT)			2.00	
	Circus/Carnv			25.00	
	Alterations			5.00	
	Fire Repairs			15.00	
	E Lights			1.00	
	E Generators			20.00	
<b>PANELS</b>	Service	Remote	Main	4.00	
<b>TRANSFORMER</b>	0-25 Kva			5.00	
	25-200 Kva			8.00	
	Over 200 Kva			10.00	
			TOTAL AMOUNT DUE		
MINIMUM FEE/COMMERCIAL 55.00			MINIMUM FEE 45.00	55.00	

046 D 031

RECEIVED  
 MAR 16 2012  
 Dept. of Building Inspections  
 City of Portland Maine

CONTRACTORS NAME R.M. Lawson, Inc. MASTER LIC. # M560004434  
 ADDRESS 232 OSSIPEE TRAIL, Gorham, ME. LIMITED LIC. # \_\_\_\_\_  
 TELEPHONE 207-329-8432

SIGNATURE OF CONTRACTOR Robert M. Lawson



# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life • [www.portlandmaine.gov](http://www.portlandmaine.gov)*

## Receipts Details:

**Tender Information:** Check , BusinessName: Robert M. Pearson inc., Check Number: 1079

**Tender Amount:** 55.00

## Receipt Header:

**Cashier Id:** gguertin

**Receipt Date:** 3/16/2012

**Receipt Number:** 41818

## Receipt Details:

Referance ID:	5654	Fee Type:	BP Elec Comm
Receipt Number:	0	Payment Date:	
Transaction Amount:	55.00	Charge Amount:	55.00
Job ID: Job ID: 2012-03-3519-FAFS - fire alarm			
<b>Additional Comments:</b> 142 High			

Thank You for your Payment!



# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life* • [www.portlandmaine.gov](http://www.portlandmaine.gov)

## Receipts Details:

**Tender Information:** Check , BusinessName: Protection Professionala, Check Number: 11039  
**Tender Amount:** 560.00

## Receipt Header:

**Cashier Id:** gguertin  
**Receipt Date:** 3/16/2012  
**Receipt Number:** 41816

## Receipt Details:

Referance ID:	5653	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	560.00	Charge Amount:	560.00
Job ID: Job ID: 2012-03-3519-FAFS - fire alarm			
<b>Additional Comments:</b> 142 High			

Thank You for your Payment!