Form # P 04	DISPLAY	THIS	CARD	ON	PRIN	CIPAL	FRO	NTAGE	OF V	WORK	
Please Read Application And Notes, If Any, Attached		С	BU					N D Pei		1999	ED
This is to certify has permission t	that <u>ELEVI</u> to <u>Instail</u> :	EN EXCHAN a fire ala <u>rm sy</u>	<u>GE LLC /</u> /stem	em	Fire P	tion <u>Co</u>	., Inc.		SEP 1	6 2010	
AT <u>9 EXCHAN</u> provided th of the prov the constru this depart	NGE ST nat the perse visions of th uction, main tment.	on or pers e Statute itenance a	sons, fil s of Ma and use	or e a f bi	co nd of th uildings	on a ne O s and s	<u>CF</u> acceptin accestin acces structure	932 F01000 og this po of the C es, and c	City of P ermit sh City of P of the ap	Portland Itali comp Portland I Poplication	bly with all regulating n on file in
Apply to Put and grade if such informa	blic Works for s nature of work ation.	street line a requires	Noti give befo lath HOU	ition nd w his or NO	n of sp vritte en bui go oth TICE IS P	ectio missic or pa e REQUIRE	nust be rocured lereof is d-in. 2- ED.	A ce proce ing o	ertificate o ured by ov or part ther	f occupanc wner before reof is occu	y must be a this build- pied.
OTHER Fire Dept Health Dept Appeal Board Other	Department Name	OVALS						Dig	or - Building & In		2
		F	PENALT	fo l	R REMO	OVING	THIS CA	RD			

~ ,

•••

Cit	y of Portland, Maine	- Building or Use	Permi	t Application	Perr	nit No:	Issue Dnte:		CBL:	
389	Congress Street, 04101	Tel: (207) 874-8703	, Fax:	(207) 874-8716		10-1135			032 F0	10001
Loca	ation of Construction:	Owner Name:	Owner Name:			Owner Address:			Phone:	
9 E	XCHANGE ST	E ST ELEVEN EXCHANGE LLC			PO B	OX 4894				
Busi	Business Name: Contractor Name:		—————— (c	Contra	ctor Address:			Phone		
		Eastern Fire P	rotectio	n Co., Inc.	170 K	<u>ittyhawk Av</u>	e.,PO Box 1390	Au	2077841	507
Less	ee/Buyer's Name	Phone:		P	Permit	Туре:				Zone: 2
<u> </u>		<u> </u>]L	Fire	Alarm System	n			15->
Past	Use:	Proposed Use:			Permit	Fee:	Cost of Work:	CE	District:	
Co	mmercial	Commercial -	install a	a fire alarm		\$120.00	\$10,000.00		<u> </u>	
		system			FIRE		Approved INSP	ECTI	ON:	T
				Ĺ	WCON		Denied Use C	noup:	٦	
					17	lu lin		ra c	U I	Alera
Dres					7/	inelino.	}	re	(,200)	$1 \cap$
Inc	tall a fire alarm system				Cian at .	pra, 1			"//	1/
	tan a me alatin system				PEDES	TRIAT ACTIV	WITTES DISTRICT	(P. A		12
				ľ			·	1		
					Action:	: 📋 Арргоус	ed Approved	w/Con	ditions	Denied
					Signatu	ıre:		Da	te:	
Pern	nit Tnken By:	Date Applied For:				Zoning	Approval			
	obson	09/10/2010			r					47.
I.	This permit application do	es not preclude the	Spe	cial Zone or Review:	9	Zonin	g Appeāl]	Historic Pres	servation
	Applicant(s) from meeting Federal Rules.	g applicable State and	🗌 St	noreland		Variance			Not in Distri	ct or Landmark
2.	Building permits do not in	clude plumbing,	🗆 w	retland		Miscellar	neous		Does Not Re	quire Review
	septic or electrical work.			1.7			1	_	<u> </u>	
3.	Building permits are void	if work is not started	[_]F1 	ood Zone	ļ	Condition	nal Use		Requires Rev	view
	False information may inv	alidate a building	_ e.	hdivision		Internete	ation	П	Annoulad	
	permit and stop all work.		N	101111011					Approved	
) 🗌 Si	te Plan			i l		Approved w/	Conditions
			 Mai		٦	Denied			Denied	
	PERMIT ISS	しこし]]]		- (ł		_ + #	
		:	Date:	1 a/14	1/0	Date:		Date:		
	SEP 1 6 2010] - 1, - ⁴		<i> </i>	4					
		1.1								
		d								
	City of Portian					I	SEP 202	010		

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 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	<u> </u>	DATE	

HUN No work is to be started until p **Original Receip** Certificate of Occupancy original receipt for 調 第 日 **Department of Building** Electrical (12) OF PORTL , Ť Plumbing (15). MHITE - Applicant's Copy Keed YELLOW - Office Copy Cost of Construction PINK - Permit Copy Bon of Work Taken by: i. ž , :5 C

				t part		
AND, NAL, NAL, NAL, NAL, NAL, NAL, NAL, NAL	in varia	Steel Free		oliacted .		· · · · ·
F PORTL ment of Buildh ginal Rec	11EKC	B Sertificate of Occup	- Electrical	e started un		
	J.J. J.	iruction s	Phambing (IS	work is to b		files Copy I Copy
	Faceworked fro	Cost of Const Permit Fee		No.	Taken by	VELLOW - OF

City of Portland, Maine - I	Building or Use Permi	Permit No:	Date Applied For:	CBL;	
389 Congress Street, 04101 To	el: (207) 874-8703, Fax: (6 <u>10-1135</u>	09/10/2010	032 F010001	
Location of Construction:	Owner Name:		Owner Address:		Phone:
9 EXCHANGE ST	ELEVEN EXCHANG	ELLC	PO BOX 4894]
Business Name:	Contractor Name:		Contractor Address:		Phone
	Eastern Fire Protection	n Co., Inc.	170 Kittyhawk Ave	e.,PO Box 1390 Au	(207) 784-1507
Lessee/Buyer's Name	Phone:		Permit Type:		
		ļ	Fire Alarm System	<u> </u>	
Proposed Use:		Propos	ed Project Description:		
Commercial - install a fire alarm	system	Insta	l a fire alarm system	L	
Dept: Zoning Statu Note:	s: Approved with Condition	ns Reviewei	: Marge Schmucka	l Approval D	ate: 09/14/2010 Ok to Issue: 🗹
Dept: Building Status Note: 1) Separate permits are required	s: Approved with Condition	ns Reviewer 1, sprinkler, HV	: Jonathan Rioux AC systems, heating	Approval Data	ate: 09/16/2010 Ok to Issue: 🗹 g pellet/wood
 Dept: Building Status Note: 1) Separate permits are required stoves, commercial hood exhiprocess. 2) Fire Alarm systems shall be in 3) Application approval based us and approrval prior to work. 	s: Approved with Condition for any electrical, plumbing aust systems and fuel tanks. Installed per Sec. 907 of the I apon information provided by	ns Reviewen a, sprinkler, HV Separate plans IBC 2003 y applicant. Any	: Jonathan Rioux AC systems, heating nay need to be subm deviation from app	Approval Da appliances, includin hitted for approval as roved plans requires	ate: 09/16/2010 Ok to Issue: 2 g pellet/wood a part of this separate review
Dept:BuildingStatusNote:.1)Separate permits are required stoves, commercial hood exh process.2)Fire Alarm systems shall be it3)Application approval based u and approrval prior to work.Dept:FireStatus	s: Approved with Condition for any electrical, plumbing aust systems and fuel tanks. Installed per Sec. 907 of the l apon information provided by s: Approved with Condition	ns Reviewen s, sprinkler, HV Separate plans IBC 2003 y applicant. Any ns Reviewen	: Jonathan Rioux AC systems, heating may need to be subm deviation from app : Ben Wallace Jr.	Approval Da appliances, includin hitted for approval as roved plans requires Approval Da	ate: 09/16/2010 Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010
Dept:BuildingStatusNote:	s: Approved with Condition I for any electrical, plumbing aust systems and fuel tanks. Installed per Sec. 907 of the I upon information provided by s: Approved with Condition	ns Reviewer s, sprinkler, HV Separate plans IBC 2003 y applicant. Any ns Reviewer	: Jonathan Rioux AC systems, heating may need to be subm deviation from app : Ben Wallace Jr.	Approval Da appliances, includin itted for approval as roved plans requires Approval Da	ate: 09/16/2010 Ok to Issue: ☑ g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: ☑
 Dept: Building Status Note: 1) Separate permits are required stoves, commercial hood exhiprocess. 2) Fire Alarm systems shall be in 3) Application approval based u and approrval prior to work. Dept: Fire Status Note: No master box. 1) The fire alarm system shall converty. All fire alarm instable 	s: Approved with Condition I for any electrical, plumbing aust systems and fuel tanks. Installed per Sec. 907 of the I apon information provided by s: Approved with Condition omply with the City of Portla allation and servicing compare	ns Reviewer t, sprinkler, HV Separate plans IBC 2003 y applicant. Any ns Reviewer and Standard fo nies shall have a	 Jonathan Rioux AC systems, heating may need to be submed to be submed	Approval Da appliances, includin hitted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Dep	ate: 09/16/2010 Ok to Issue: ☑ g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: ☑ Life and artment.
 Dept: Building Status Note: 1) Separate permits are required stoves, commercial hood exhiprocess. 2) Fire Alarm systems shall be in an approval based us and approval prior to work. Dept: Fire Status Note: No master box. 1) The fire alarm system shall concept. All fire alarm instates 2) Installation of a Fire Alarm system 	s: Approved with Condition I for any electrical, plumbing aust systems and fuel tanks. Installed per Sec. 907 of the I upon information provided by s: Approved with Condition omply with the City of Portla allation and servicing compary ystem requires a Knox Box to	ns Reviewer s, sprinkler, HV Separate plans IBC 2003 y applicant. Any s Reviewer and Standard fo nies shall have a so be installed p	: Jonathan Rioux AC systems, heating may need to be subm deviation from app : Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance	Approval Da appliances, includin litted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Dep	ate: 09/16/2010 Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
 Dept: Building Status Note: 1) Separate permits are required stoves, commercial hood exhiprocess. 2) Fire Alarm systems shall be in 3) Application approval based us and approrval prior to work. Dept: Fire Status Note: No master box. 1) The fire alarm system shall construct property. All fire alarm insta 2) Installation of a Fire Alarm system 3) Central Station monitoring for 	s: Approved with Condition I for any electrical, plumbing aust systems and fuel tanks. Installed per Sec. 907 of the I apon information provided by s: Approved with Condition omply with the City of Portla allation and servicing company ystem requires a Knox Box to or addressable fire alarm system	ns Reviewer t, sprinkler, HV Separate plans IBC 2003 y applicant. Any ns Reviewer and Standard fo nies shall have a to be installed p tems shall be by	: Jonathan Rioux AC systems, heating nay need to be subm deviation from app : Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point.	Approval Da appliances, includin atted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Dep	ate: 09/16/2010 Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
 Dept: Building Status Note: 1) Separate permits are required stoves, commercial hood exhiprocess. 2) Fire Alarm systems shall be in 3) Application approval based us and approrval prior to work. Dept: Fire Status Note: No master box. 1) The fire alarm system shall conproperty. All fire alarm instation of a Fire Alarm systems 3) Central Station monitoring for 4) As-built documents shall be status 	s: Approved with Condition I for any electrical, plumbing aust systems and fuel tanks. Installed per Sec. 907 of the I apon information provided by s: Approved with Condition omply with the City of Portla allation and servicing compary system requires a Knox Box to or addressable fire alarm system submitted in pdf to the Build	ns Reviewer t, sprinkler, HV Separate plans IBC 2003 y applicant. Any ns Reviewer and Standard fo nies shall have a to be installed p tems shall be by ing Inspections	: Jonathan Rioux AC systems, heating nay need to be subm deviation from app : Ben Wallace Jr. r Signaling Systems a Certificate of Fitner er city crdinance point. Office upon complet	Approval Da appliances, includin itted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Depa tion of job.	ate: 09/16/2010 Ok to Issue: ☑ g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: ☑ Life and artment.
 Dept: Building Status Note: 1) Separate permits are required stoves, commercial hood exhiprocess. 2) Fire Alarm systems shall be in 3) Application approval based u and approrval prior to work. Dept: Fire Status Note: No master box. 1) The fire alarm system shall consider the property. All fire alarm insta 2) Installation of a Fire Alarm system shall be solved. 3) Central Station monitoring for 4) As-built documents shall be solved. 	s: Approved with Condition I for any electrical, plumbing aust systems and fuel tanks. Installed per Sec. 907 of the I apon information provided by s: Approved with Condition omply with the City of Portla allation and servicing compary ystem requires a Knox Box to br addressable fire alarm system submitted in pdf to the Buildi ke alarms shall be photoelect	ns Reviewen a, sprinkler, HV Separate plans IBC 2003 y applicant. Any ns Reviewen and Standard fo nies shall have a to be installed p tems shall be by ing Inspections tric. Carbon M	 Jonathan Rioux AC systems, heating may need to be submed to be submed	Approval Da appliances, includin atted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Depa tion of job. e required in the dwe	ate: 09/16/2010 Ok to Issue: ☑ g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: ☑ Life and artment.
Dept:BuildingStatusNote:1)Separate permits are required stoves, commercial hood exh process.2)Fire Alarm systems shall be in3)Application approval based u and approrval prior to work.Dept:FireStatusNote:No master box.1)The fire alarm system shall co Property. All fire alarm insta2)Installation of a Fire Alarm sy3)Central Station monitoring fo4)As-built documents shall be s5)All smoke detectors and smol State law.6)System acceptance and comm Department. Call 874-8703 to	s: Approved with Condition I for any electrical, plumbing aust systems and fuel tanks. Installed per Sec. 907 of the I apon information provided by s: Approved with Condition omply with the City of Portla allation and servicing compary ystem requires a Knox Box to or addressable fire alarm system submitted in pdf to the Build ke alarms shall be photoelect missioning must be co-ordina to schedule.	Reviewer s, sprinkler, HV Separate plans IBC 2003 y applicant. Any S Reviewer and Standard fo nies shall have a to be installed p ems shall be by ing Inspections tric. Carbon M	 Jonathan Rioux AC systems, heating may need to be submed to be submed	Approval Da appliances, includin itted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Depa tion of job. e required in the dwe em contractors and the	ate: 09/16/2010 Ok to Issue: ☑ g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: ☑ Life and artment.
 Dept: Building Status Note: 1) Separate permits are required stoves, commercial hood exhiprocess. 2) Fire Alarm systems shall be in 3) Application approval based us and approrval prior to work. Dept: Fire Status Note: No master box. 1) The fire alarm system shall comproperty. All fire alarm insta 2) Installation of a Fire Alarm sy 3) Central Station monitoring for 4) As-built documents shall be s 5) All smoke detectors and smole State law. 6) System acceptance and comment. Call 874-8703 to 7) All fire alarm records require RECORDS". Records cabinary 	s: Approved with Condition I for any electrical, plumbing aust systems and fuel tanks. Installed per Sec. 907 of the I apon information provided by s: Approved with Condition omply with the City of Portla allation and servicing compary ystem requires a Knox Box to or addressable fire alarm system submitted in pdf to the Build ke alarms shall be photoelect nissioning must be co-ordina to schedule. ed by NFPA 72 should be sto ate, FACP, annunciator(s), at	Reviewer s, sprinkler, HV Separate plans IBC 2003 y applicant. Any Reviewer and Standard fo nies shall have a to be installed p tems shall be by ing Inspections tric. Carbon M ated with alarm pred in an appro- nd pull stations	 : Jonathan Rioux AC systems, heating may need to be submed to be	Approval Da appliances, includin itted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Depa tion of job. e required in the dwa em contractors and the at the FACP labeled	ate: 09/16/2010 Ok to Issue: ☑ og pellet/wood a a part of this separate review ate: 09/16/2010 Ok to Issue: ☑ Life and artment. elling units by he Fire "FIRE ALARM

ł

ţ

ł

PERMIT ISSUED

SEP 1 6 2010

.

City of Portland

Cit	y of Portland, Ma	ling or Use Permi	rermu No:	Date Applica Port	CDL.		
389	Congress Street, 04	101 Tel: (2	:07) 874-8703, Fax: ((207) 874-871	6 10-1135	09/10/2010	032 F010001
Loca	tion of Construction:		Owner Name:		Owner Address:		Phone:
9 E	XCHANGE ST		ELEVEN EXCHANG	ELLC	PO BOX 4894		
Busir	ness Name:		Contractor Name:		Contractor Address:		Phone
			Eastern Fire Protection	n Co., Inc.	170 Kittyhawk Ave	e.,PO Box 1390 Au	(207) 784-1507
Less	ee/Buyer's Name		Phone:	_	Permit Type:		
					Fire Alarm System	n	
Prop	osed Use:			Propo	sed Project Description:		
Cor	mmercial - install a fire	alarm syste	m		ll a fire alarm system	L	
							00/14 0010
De	ept: Zoning	Status: Aj	pproved with Condition	ns Keviewe	r: Marge Schmucka	ii Approval Da	ate: 09/14/2010
NO	ote:						Ok to Issue: 🗹
	4. D 11.31	Status: A	oproved with Condition	ns Reviewe	r: Jonathan Rioux	Approval D	ate: 09/16/2010
De	ept: Building		•				Oly to Issues V
De No	ept: Building ote: Senarate permits are r	equired for a	ny electrical alumbia	meinkler UV	AC customs beating	annliances includin	Ok to Issue:
De No I)	pt: Building ote: Separate permits are re stoves, commercial ho process.	equired for a od exhaust s	ny electrical, plumbing ystems and fuel tanks.	, sprinkler, HV Separate plans	AC systems, heating may need to be subm	appliances, includin itted for approval as	Ok to Issue: g pellet/wood a part of this
De No 1) 2)	ept: Building ote: Separate permits are re- stoves, commercial ho process. Fire Alarm systems sh	equired for a od exhaust s	ny electrical, plumbing ystems and fuel tanks.	g, sprinkler, HV Separate plans	AC systems, heating may need to be subm	appliances, includin nitted for approval as	Ok to Issue: 🗹 g pellet/wood a part of this
De No 1) 2)	pt: Building ote: Separate permits are re stoves, commercial ho process. Fire Alarm systems sh	equired for a od exhaust s all be install	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the	g, sprinkler, HV Separate plans IBC 2003	AC systems, heating may need to be subm	appliances, includin itted for approval as	Ok to Issue:
De No I) 2) 3)	ept: Building ote: Separate permits are re- stoves, commercial ho process. Fire Alarm systems sh Application approval b and approval prior to	equired for a od exhaust s all be install based upon i work.	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by	, sprinkler, HV Separate plans IBC 2003 y applicant. An	AC systems, heating may need to be subm y deviation from app	appliances, includin nitted for approval as roved plans requires	Ok to Issue: g pellet/wood a part of this separate review
De No 1) 2) 3) De	ept: Building ote: Separate permits are re- stoves, commercial ho process. Fire Alarm systems sh Application approval and and approrval prior to ept: Fire	equired for a od exhaust s all be install based upon i work. Status: A	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by	g, sprinkler, HV Separate plans IBC 2003 y applicant. An Reviewe	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr.	appliances, includin nitted for approval as roved plans requires	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010
De No 1) 2) 3) De	ept: Building ote: Separate permits are re- stoves, commercial ho process. Fire Alarm systems sh Application approval to and approrval prior to ept: Fire ote: No master box.	equired for a od exhaust s all be install based upon i work. Status: A	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by pproved with Conditior	g, sprinkler, HV Separate plans IBC 2003 y applicant. An IS Reviewe	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr.	appliances, includin hitted for approval as roved plans requires Approval Da	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue:
De Nc 1) 2) 3) De No 1)	ept: Building bte: Separate permits are restoves, commercial hoprocess. Fire Alarm systems sh Application approval fraction approval fraction approval fraction approval fraction. ept: Fire bte: No master box. The fire alarm system Property. All fire alar	equired for a od exhaust s all be install based upon i work. Status: A shall comply m installatio	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by pproved with Condition y with the City of Portla n and servicing compare	g, sprinkler, HV Separate plans IBC 2003 y applicant. An IS Reviewe and Standard fonies shall have	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne	appliances, includin nitted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Dep	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
De Nc I) 2) 3) De No 1) 2)	ept: Building ote: Separate permits are re- stoves, commercial ho process. Fire Alarm systems sh Application approval and approrval prior to ept: Fire ote: No master box. The fire alarm system Property. All fire alar	equired for a od exhaust s all be install based upon i work. Status: Ap shall comply m installatio	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by pproved with Condition y with the City of Portlan and servicing compare requires a Knox Box t	g, sprinkler, HV Separate plans IBC 2003 y applicant. An <u>1s Reviewe</u> and Standard fonies shall have to be installed p	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance	appliances, includin nitted for approval as roved plans requires Approval D for the Protection of ss from the Fire Dep	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
De Nc I) 3) De No 1) 2) 3)	ept: Building ote: Separate permits are restoves, commercial hoprocess. Fire Alarm systems sh Application approval from the and approval prior to expt: Fire Fire Sete: No master box. The fire alarm system Property. All fire alar Installation of a Fire A Central Station monitor	equired for a od exhaust s all be install based upon i work. Status: A shall comply m installatio larm system pring for add	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by pproved with Condition y with the City of Portla n and servicing compare requires a Knox Box to ressable fire alarm syst	y, sprinkler, HV Separate plans IBC 2003 y applicant. An s Reviewe and Standard fonies shall have to be installed p ems shall be by	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point.	appliances, includin nitted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Dep	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
De Nc l) 2) 3) De No 1) 2) 3) 4)	ept:BuildingSeparate permits are restoves, commercial hoprocess.Fire Alarm systems shApplication approval frain and approval prior toept:FireSept:FireSept:No master box.The fire alarm systemProperty.All fire alarInstallation of a Fire ACentral Station monitorAs-built documents sh	equired for a od exhaust s all be install based upon i work. Status: A shall comply m installatio alarm system oring for add all be submi	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by opproved with Condition y with the City of Portla n and servicing compare requires a Knox Box t ressable fire alarm syst tted in pdf to the Build	g, sprinkler, HV Separate plans IBC 2003 y applicant. An IS Reviewe and Standard fonies shall have to be installed p ems shall be by ing Inspections	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne per city crdinance point. Office upon comple	appliances, includin nitted for approval as roved plans requires Approval D a for the Protection of ss from the Fire Dep- tion of job.	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
De Nc l) 2) 3) De No 1) 2) 3) 4) 5)	ept:Buildingote:Separate permits are restoves, commercial hoprocess.Fire Alarm systems shApplication approval fand approrval prior toept:Fireote:No master box.The fire alarm systemProperty.All fire alarInstallation of a Fire ACentral Station monitorAs-built documents shAll smoke detectors anState law.	equired for a od exhaust s all be install based upon i work. Status: A shall comply m installatio alarm system oring for add all be submin d smoke ala	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by pproved with Condition with the City of Portla n and servicing compar- requires a Knox Box t ressable fire alarm syst tted in pdf to the Build urms shall be photoelec	g, sprinkler, HV Separate plans IBC 2003 y applicant. An IS Reviewe and Standard fonies shall have to be installed p ems shall be by ing Inspections tric. Carbon M	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point. Office upon comple fonoxide detectors ar	appliances, includin nitted for approval as roved plans requires Approval D for the Protection of ss from the Fire Depution tion of job. e required in the dwe	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
De Nc l) 2) 3) De No 1) 2) 3) 4) 5) 6)	Ept:BuildingSeparate permits are restoves, commercial hoprocess.Fire Alarm systems shApplication approval and approrval prior toEpt:FireSet:No master box.The fire alarm systemProperty.All fire alarInstallation of a Fire ACentral Station monitorAs-built documents shAll smoke detectors arState law.System acceptance andDepartment.Call 874	equired for a od exhaust s all be install based upon i work. Status: Ap shall comply m installatio all comply all be submin of smoke ala d commissio -8703 to sch	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by proved with Condition y with the City of Portla n and servicing compar- a requires a Knox Box t ressable fire alarm syst tted in pdf to the Build urms shall be photoelec ning must be co-ordina edule.	g, sprinkler, HV Separate plans IBC 2003 y applicant. An IS Reviewe and Standard fonies shall have to be installed p ems shall be by ing Inspections tric. Carbon M ted with alarm	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point. Office upon comple tonoxide detectors ar and suppression syst	appliances, includin nitted for approval as roved plans requires Approval D for the Protection of ss from the Fire Dep tion of job. e required in the dwe em contractors and th	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
De Nc 1) 2) 3) De No 1) 2) 3) 4) 5) 6) 7)	ept: Building ote: Separate permits are restoves, commercial hoprocess. Fire Alarm systems sh Application approval and approval prior to ept: Fire ote: No master box. The fire alarm system Property. All fire alar Installation of a Fire A Central Station monitor As-built documents sh All smoke detectors ar System acceptance and Department. Call 874 All fire alarm records RECORDS". Records	equired for a od exhaust s all be install based upon i work. Status: Ap shall comply m installatio all be submind all be submind smoke ala d commissio -8703 to sch required by s cabinate, F	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the l nformation provided by proved with Condition y with the City of Portla n and servicing compar requires a Knox Box t ressable fire alarm syst tted in pdf to the Build urms shall be photoelec ning must be co-ordina edule. NFPA 72 should be sto ACP, annunciator(s), a	y, sprinkler, HV Separate plans IBC 2003 y applicant. An <u>IS Reviewe</u> and Standard fonies shall have to be installed p ems shall be by ing Inspections tric. Carbon M ted with alarm ared in an appro-	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point. Office upon comple fonoxide detectors ar and suppression syst wed cabinet located a shall be keyed alike.	appliances, includin nitted for approval as roved plans requires Approval D for the Protection of ss from the Fire Dep tion of job. e required in the dwe em contractors and th at the FACP labeled	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment. elling units by the Fire "FIRE ALARM
De No 1) 2) 3) De	ept: Building ote: Separate permits are re- stoves, commercial ho process. Fire Alarm systems sh Application approval and approrval prior to ept: Fire	equired for a od exhaust s all be install based upon i work. Status: A	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by pproved with Condition	, sprinkler, HV Separate plans IBC 2003 y applicant. An 18 Reviewe	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr.	appliances, includin nitted for approval as roved plans requires Approval Da	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010
De Nc I) 3) De No 1) 2) 3)	ept: Building ote: Separate permits are restoves, commercial hoprocess. Fire Alarm systems sh Application approval from the and approval prior to expt: Fire Fire Sete: No master box. The fire alarm system Property. All fire alar Installation of a Fire A Central Station monitor	equired for a od exhaust s all be install based upon i work. Status: A shall comply m installatio larm system pring for add	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by pproved with Condition y with the City of Portla n and servicing compare requires a Knox Box to ressable fire alarm syst	y, sprinkler, HV Separate plans IBC 2003 y applicant. An s Reviewe and Standard fonies shall have to be installed p ems shall be by	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point.	appliances, includin nitted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Dep	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
De Nc I) 2) 3) De No 1) 2) 3) 4)	ept:Buildingbte:Separate permits are restoves, commercial hoprocess.Fire Alarm systems shApplication approval band approrval prior toept:Firebte:No master box.The fire alarm systemProperty.All fire alarInstallation of a Fire ACentral Station monitorAs-built documents sh	equired for a od exhaust s all be install based upon i work. Status: Ap shall comply m installatio alarm system oring for add all be submi	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by pproved with Condition y with the City of Portla n and servicing compar- a requires a Knox Box t ressable fire alarm syst tted in pdf to the Build	g, sprinkler, HV Separate plans IBC 2003 y applicant. An IS Reviewe and Standard fonies shall have to be installed p ems shall be by ing Inspections	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point. Office upon comple	appliances, includin nitted for approval as roved plans requires Approval D for the Protection of ss from the Fire Dep. tion of job.	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
De Nc I) 2) 3) De No 1) 2) 3) 4) 5)	ept: Building ote: Separate permits are restoves, commercial hoprocess. Fire Alarm systems sh Application approval frain and approval prior to ept: Fire ote: No master box. The fire alarm system Property. All fire alar Installation of a Fire A Central Station monito As-built documents sh All modes built of a fire	equired for a od exhaust s all be install based upon i work. Status: Ap shall comply m installatio alarm system oring for add all be submi	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by opproved with Condition y with the City of Portla n and servicing compare requires a Knox Box to ressable fire alarm syst tted in pdf to the Build	g, sprinkler, HV Separate plans IBC 2003 y applicant. An IS Reviewe and Standard fonies shall have to be installed p ems shall be by ing Inspections	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point. Office upon comple	appliances, includin nitted for approval as roved plans requires Approval D a for the Protection of ss from the Fire Dep. tion of job.	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment.
De Nc I) 2) 3) De No 1) 2) 3) 4) 5)	ept:Buildingote:Separate permits are restoves, commercial hoprocess.Fire Alarm systems shApplication approval frain and approval prior toept:Fireote:No master box.The fire alarm systemProperty.All fire alarInstallation of a Fire ACentral Station monitorAs-built documents shAll smoke detectors anState law.	equired for a od exhaust s all be install based upon i work. Status: Ap shall comply m installatio alarm system oring for add all be submin ind smoke ala	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by pproved with Condition with the City of Portla n and servicing compare requires a Knox Box t ressable fire alarm syst tted in pdf to the Build urms shall be photoelec	g, sprinkler, HV Separate plans IBC 2003 y applicant. An IS Reviewe and Standard fonies shall have to be installed p ems shall be by ing Inspections tric. Carbon M	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne per city crdinance point. Office upon comple fonoxide detectors ar	appliances, includin nitted for approval as roved plans requires Approval D for the Protection of ss from the Fire Depution tion of job. e required in the dwe	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment. elling units by
De Nc I) 2) 3) De No 1) 2) 3) 4) 5) 6)	 Ept: Building Separate permits are restoves, commercial hoprocess. Fire Alarm systems sh Application approval fand approval prior to Ept: Fire Ept: Fire Ept: No master box. The fire alarm system Property. All fire alar Installation of a Fire A Central Station monito As-built documents sh All smoke detectors ar State law. 	equired for a od exhaust s all be install based upon i work. Status: Ap shall comply m installatio alarm system oring for add all be submind smoke alard d commissio	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by opproved with Condition y with the City of Portla n and servicing compare requires a Knox Box t ressable fire alarm syst tted in pdf to the Build urms shall be photoelec	g, sprinkler, HV Separate plans IBC 2003 y applicant. An IS Reviewe and Standard fonies shall have to be installed p ems shall be by ing Inspections tric. Carbon M ted with alarm	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point. Office upon comple fonoxide detectors ar and suppression syst	appliances, includin nitted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Dep tion of job. e required in the dwe em contractors and th	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment. elling units by the Fire
De Nc l) 2) 3) De Nc 1) 2) 3) 4) 5) 6) 7)	ept: Building ote: Separate permits are restoves, commercial hoprocess. Fire Alarm systems sh Application approval feature and approval prior to ept: Fire ote: No master box. The fire alarm system Property. All fire alar Installation of a Fire A Central Station monito As-built documents sh All smoke detectors and state law. System acceptance and Department. Call 874 All fire alarm records	equired for a od exhaust s all be install based upon i work. Status: A shall comply m installatio all comply all be submined all be submined all commission -8703 to sch required by	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the nformation provided by pproved with Condition y with the City of Portla n and servicing compar- requires a Knox Box t ressable fire alarm syst tted in pdf to the Build urms shall be photoelec ning must be co-ordina edule.	g, sprinkler, HV Separate plans IBC 2003 y applicant. An IS Reviewe and Standard fonies shall have to be installed p ems shall be by ing Inspections tric. Carbon M ted with alarm	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point. Office upon comple ionoxide detectors ar and suppression syst	appliances, includin nitted for approval as roved plans requires Approval Da for the Protection of ss from the Fire Dep- tion of job. e required in the dwe em contractors and the at the FACP labeled	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment. elling units by he Fire "FIRE ALARM
De Nc 1) 2) 3) De No 1) 2) 3) 4) 5) 6) 7)	ept: Building ote: Separate permits are restoves, commercial hoprocess. Fire Alarm systems sh Application approval from the and approval prior to expt: Fire Fire ote: No master box. The fire alarm system Property. All fire alar Installation of a Fire A Central Station monitor As-built documents sh All smoke detectors and state law. System acceptance and Department. Call 874 All fire alarm records RECORDS". Records	equired for a od exhaust s all be install based upon i work. Status: Ap shall comply m installatio alarm system oring for add all be submind smoke alard d commissio -8703 to sch required by s cabinate, F.	ny electrical, plumbing ystems and fuel tanks. ed per Sec. 907 of the I nformation provided by pproved with Condition y with the City of Portla n and servicing compare requires a Knox Box t ressable fire alarm syst tted in pdf to the Build urms shall be photoelec ning must be co-ordina edule. NFPA 72 should be sto ACP, annunciator(s), a	g, sprinkler, HV Separate plans IBC 2003 y applicant. An <u>IS Reviewe</u> and Standard fonies shall have to be installed p ems shall be by ing Inspections tric. Carbon M ted with alarm ared in an appro-	AC systems, heating may need to be subm y deviation from app r: Ben Wallace Jr. r Signaling Systems a Certificate of Fitne er city crdinance point. Office upon comple tonoxide detectors ar and suppression syst wed cabinet located a shall be keyed alike.	appliances, includin nitted for approval as roved plans requires Approval D for the Protection of ss from the Fire Dep tion of job. e required in the dwe em contractors and th at the FACP labeled	Ok to Issue: g pellet/wood a part of this separate review ate: 09/16/2010 Ok to Issue: Life and artment. elling units by he Fire "FIRE ALARM

PERMIT ISSUED

SEP 1 6 2010

4 *i* i

City of Portland



Fire Alarm Permit

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.

		20 T 10
	Installation address: <u>II_ExChANGE_St</u>	CBL: 32- F-10
	Exact location: (within structure)	
	Type of occupancy(s) (NFPA & ICC): MIXED	
	Building owner: Joe Soley	
	Must be System Designer (point of contact):	2D
	Designer phone: <u>207-784-1507</u>	E-mail: BAIRD BW @ TEAMEHSTERN), COM
	Installing contractor: EASTERN FIRE SERVICES	Certificate of Fitness No:
	Contractor phone: _ 207 - 784 - 1507	E-mail: BAIRDBW@ TEAMEASTERN, COM
	This is a new application: YES X NO O New	v AES Master Box: YES NO
	Amendment to an existing permit: YES NO X Pen	nit no:
	The following documents shall be provided with this application:	
N,	Floor plans Scope of Work	COST OF WORK
	Wiring diagram 🛛 11 1/2 x 17s	PERMIT FEE:
	Annunciator details pdf copy (may be e-mailed)	
	Input/Output Matrix Designer qualifications	
	Equipment data sheets Battery/ voltage drop calcs	
	Electrical Permit Pulled (check alarm/com)	RECEIVED
	Master box approval only: YES NO (If yes check New AES Master Box above)	SEP 10
	The designer shall be the responsible party for this application. I	lownload a new copy of this application at
	www.portlandmaine.gov/fire for every submittel. Submit all plans in a	electronic PDF @ addition to magable 11 1/2 x 17s to
	the Building Inspections Department, 389 Congress Street, Room	315, Portland, Maine 04101 and Maine
	Prior to acceptance of any fire alarm system, a complete commissioni	ng and acceptance test must be coordinated with all
	fire system contractors and the Fire Department, and proper document	tation of such test(s) provided.
	All installation(s) must comply with the City of Portland Technical S	tandard for Signaling Systems for the Protection of
	Life and Property, available at www.portlandmaine.gov/fire.	
ſ	Applicant signature: Paul Sh	Date: 09/10/10

Form a P D1

ELECTRICAL PERMIT City of Portland, Me.



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 09/10/1 Permit # 20/1 CBL# ______

ENANT Joc	Sole	y Hooperties	PHONE #		
					TAL EACH FEE
OUTLETS	[]	Receptacles	Switches	Smoke Detector	.20
	[
FIXTURES		Incandescent	Fluorescent	Strips	.20
	[
SERVICES		Overhead	Underground	TTL AMPS <800	15.00
		Overhead	Underground	>800	25.00
				TT: 1100	
Temporary Service			Underground	TIL AMPS	25.00
		(number of	╶┼╌╶╍╌┈╌╁╌		- 25.00
METERS		(number of)	╌┼╍╍╌╌┼╴		200
		Electric unite	_ _	·	1.00
HEATING				Exterior	5.00
	┝╌╺╸	Rannes	Cook Tops	Wall Ovens	200
		Insta-Hot	Water heaters	Fans	2.00
	┟──੶	Drvers	Disposals	Dishwasher	2.00
	┝──╴	Compactors	Spa	Washing Machine	2.00
	├──-	Others (denote)			2.00
MISC. (number of)	┟───	Air Cond/win	_ }__		3.00
	╞╼╍╴	Air Cond/cent	╶┝╌╸╼╴	Pools	10.00
		HVAC	EMS	Thermostat	5.00
		Signs	╶┼╍┈╼╾╴┾╸		10.00
		Alarms/res	╶┡╌┄╼╾╴┢╴		5.00
	~	Alarms/com			15.00
· · · · · · · · · · · · · · · · · · ·		Heavy Duty(CRKT)		FIVED	2.00
		Circus/Carnv	RE	Y	25.00
		Alterations			5.00
	\Box	Fire Repairs		NEP 10 2010	15.00
	E	E Lights		guitions	1.00
		E Generators		a wilding Inspect	20.00
	<u> </u>			or Bunortland Man	
PANELS	<u> </u>	Service	Remote (4.00
TRANSFORMER	L	0-25 Kva			5.00
	Ļ	25-200 KVa	_ <u></u>	· · · · · · · · · · · · · · · · · · ·	8.00
		Over 200 KVa			10.00
				TOTAL AMOUNT DUE	





FIRE SPRINKLER * FIRE ALARM * CLEAN AGENT

A UBURN PHONE (207) 795-6314 • A UBURN FAX (207) 782-0566 BANGOR PHONE (207) 942-8014 • BANGOR FAX (207) 942-5202 170 KITTY HAWK AVE. • P. O. BOX 1582 • AUBURN, ME 04211-1582

DESIGNER QUALIFICATIONS

Brian W. Baird

20years experience in fire alarm industry dealing with the design, installation, and servicing of both conventional and addressable fire alarm systems

Brian Baird

From:	Brian Baird
Sent:	Wednesday, September 08, 2010 8:50 AM
То:	Benjamin Wallace
Cc:	Keith Gautreau; plewis01022000@yahoo.com
Subject:	RE: 11 exchange st.
Attachments:	image001.gif; image002.jpg

Importance:

High

Fire Alarm System Plan of Action:

- 1. Obtain Fire Alarm Permit
- 2. Replace existing 2nd floor FACP with new addressable FACP
- 3. Install new Remote Annunciator in 1st fl lobby
- 4. Troubleshoot each existing zone and connect to new FACP
- 5. Connect new FACP to Central Station Monitoring
- 6. Connect new devices/zones in new restaurant to new FACP
- 7. Install new addressable heat detectors in existing apartment units
- 8. Install devices as required in all other unprotected areas of the building

Please comment

Brian W. Baird Eastern Fire Services Inc. Eastern Fire Protection Inc. 170 Kitty Hawk Ave. Auburn, Maine 04210 207-784-1507 ph 207-782-0566 fax 207-713-7354 cell bairdbw@teameastern.com

Factory Authorized

Fire Safety Distributor



Siemens FS-250 Battery Calculations

Job Name: Date: 11 EXCHANGE ST 9/8/2010

TOTAL SYSTEM CURRENT

ł

1

STANDBY ALARM 0.305 8.106

	TOTAL FA	CP BAT	TERY CALC	ULATIONS	新学校的 学 校	
TOTAL STA	NDBY CURRENT	A/H REC	2'D		A/H STANDBY	
	0.305 Amps X	24	HRS.		7.325	
	A MARINA SA		Section 2			
TOTAL ALA	RM CURRENT	A/H REC	Q'D		A/H ALARM	
	8.106 Amps X	5	MIN.		0.844	

 Required Battery Capacity
 8.169

 Always use a battery with higher AH rating than required.

BATTERY SUPPLIED: 2 x 12AH





FIRE SUPPRESSION AND DETECTION SAVE LIVES AND PROPERTY

FIRE SPRINKLER + FIRE ALARM + CLEAN AGENT

AUBURN PHONE (207) 795-6314 • AUBURN FAX (207) 782-0566 BANGOR PHONE (207) 942-8014 • BANGOR FAX (207) 942-5202 170 KITTY HAWK AYE. • P. O. BOX 1582 • AUBURN, ME 04211-1582

I/O MATRIX

INPUTS		OUTPUTS
SMOKE DETECTOR MANUAL STATION WATERFLOW HEAT DETECTOR		ACTIVATE HORN/STROBES ACTIVATE DIALER - ALARM SHOW ACTIVITY ON REMOTE ANN.
SPRINKLER TAMPER		ACTIVATE DIALER - SUPERVISORY SHOW ACTIVITY ON REMOTE ANN.
FACP TROUBLE	<u> </u>	ACTIVATE DIALER - TROUBLE SHOW ACTIVITY ON REMOTE ANN.

HFPT-11 Intelligent Thermal Detector

For FireFinder XLS™ and FS-250 Fire Alarm Control Panel

ENGINEER AND ARCHITECT SPECIFICATIONS

HFPT-11

SIEMENS

- Microprocessor Based Design
- Rate of Rise and FixedTemperature
- Innovative Technology Provides High Speed, Fault Tolerant System/Detector Communications
- Multi-Color Detector Status LED
- Polarity Insensitive Utilizing SureWire™ Technology
- Detectors are Self-Testing, Complete Diagnostics Every 4 Seconds
- Two-Wire Operation
- · Compatible with DPU Device Programmer/Tester Unit
- ULC Listed, CSFM, FM, NYMEA Approved



Introduction

The HFPT-11 intelligent thermal detectors provide an advanced method of detection, address programming and supervision, combined with sophisticated control panel communication. The HFPT-11 detector uses a state-of-theart thermistor providing 135°F fixed temperature and 15° per minute rate-of-rise alarm points. The user also has the option of disabling the rate-of-rise feature leaving just a fixed temperature sensor.

The HFPT-11 intelligent thermal detector is compatible with the Device Program/Test Unit (DPU). The DPU is a compact, portable, menu-driven accessory which makes programming and testing detectors faster, easier and more reliable than other methods. The DPU eliminates the need for cumbersome, unreliable mechanical programming methods and reduces installation and service costs by electronically programming addresses and functionally testing the HFPT-11's performance before the detector is installed.

The HFPT-11 thermal detector operates with the FireFinder XLS and FS-250 families of control panels.

The HFPT-11 intelligent thermal detector is Underwriters Laboratory and Underwriters Laboratory of Canada listed.

Description

The HEPT-11 is a plug-in, two-wire thermal detector, compatible with FireFinder XLS and FS-250 families of control panels. Each FPT-11 has microcomputer chip technology and highly stable solid state electronic circuitry.

The FPT-11 utilizes a modem, accurate, shock-resistant thermistor to sense temperature changes. This electronic sensing method virtually eliminates thermal lag associated with mechanical temperature sensing devices and provides almost instantaneous temperature information to the control panel. The HEPT-11, in its default mode, is a combination 135°F fixed temperature and 15° per minute, rate-of-rise detector. It can be programmed from the control panel as a fixed temperature detector without rate-of-rise, at the users option.

The HFPT-11 detector's microprocessor uses an integral EEPROM to store the detector's address. Communications within the detector itself and between the HFPT-11 and the control panel, or with the DPU, are supervised and safeguarded against disruption by reliable, microprocessor based error checking routines. Additionally, the microprocessor supervises all EEPROM memory locations and provides a high degree of EEPROM failure fault tolerance.

The HEPT-11 is listed as a self-testing device. The HEPT-11's visible light emitting diode (LED) flashes green every 4 seconds to indicate it is communicating with the control panel and that it has passed its internal self-test. Should the detector sense a fault

CATALOG NUMBER

or failure within its systems, the LED will flash amber and the detector will transmit that information to the control panel. A quick visual inspection is sufficient to indicate the condition of the detector at any time. If more detailed information is required, a printed report can be provided from the FireFinder XLS panel indicating the status and settings assigned to each individual detector.

When the HFPT-11 moves to the alarm mode, it will flash red and continue flashing until the control panel is reset. At that same time, any user defined system alarm functions programmed into the system are activated.

A Device Program/Test Unit (DPU) is used to program and verify the detector's address. The user selects the Program Mode to enter the desired address. The DPU Programmer/Tester then automatically sets and verifies the address as well as tests the detector. The DPU has rechargeable batteries, so a detector's address can be programmed by the user from the most convenient location. The user can also separately test the detector for functionality. When the user selects the Test Mode, a series of tests are automatically conducted and the user is informed whether the detector has passed or failed.

The HFPT-11 detector is compatible on the same FireFinder XLS or FS-250 initiating circuit with other H Series detectors, HMS manual stations, HTRI Series addressable interfaces, or HZM Series addressable conventional zone modules.

The HFPT-11 detectors use a surface mounting base, Model DB-11, which mounts on a 4-inch octagonal, square or single gang electrical box. Relay base Model DB-HR mounts to a 4-inch square deep electrical box.

Audible base Model ADBH-11 also mounts to a 4-inch square deep electrical box.

The DB-11, and the DB-HR and ADBH-11 use screwclamp terminals for all electrical connections and self-wiping contacts for reliability. The bases also contain a provision for an optional concealed locking mechanism to prevent unauthorized removal of the detector head, Model LK-11.



Application Data

The FireFinder XLS and FS-250 control panels use loop circuits with each circuit capable of supporting up to 252 HFPT-11 intelligent detectors.

Locate the HFPT-11 on the ceiling, at least 4 inches from the side walls. For an ideal, smooth ceiling condition, place the detectors at a maximum center spacing of 50 feet (2500 square feet), 25 feet from side walls or room partitions.

Actual job conditions and sound engineering judgement must determine detector spacing. Consider environmental factors including ambient temperature fluctuation, and the nature of the fire hazard. Room or area configuration and ceiling type (sloped or flat, smooth or beamed) also dictates placement.

Should questions arise regarding detector placement, follow the drawing provided and/or approved by Siemens Fire Safety or by its authorized distributors. This is extremely important! The detector placements shown on these drawings were chosen after a careful evaluation of the area being protected. Extensive experience in design of the system assures the best detector placement by following these drawings.

Technical Specifications

Operative Temperatures:	+32°F (0°C) to 100°F (38°C)
Humidity:	0-93% Relative Humidity Non-condensating
Maximum Spacing:	50 Foot Centers (2500 Square Feet)
Current Draw:	1 mA in alarm or supervisory mode

Ordering Information

Model	lodel Description			
HFPT-11	Addressable Thermal Fire Detector	500-033380		
DB-11	Detector Mounting Base	500-094151		
DB-HR	Relay Base	500-033220		
ADBH-11	Audible Base	500-033210		
RLHC	Remote (red) alarm indicator-octogan box mount	500-033230		
RLHW	Remote (red) alarm indicator-single gang box mount	500-033310		
LK-11	Base Locking Kit for Series 11 detectors	500-695350		
In Canada	Order:	· <u> </u>		
ADBH-11C	Audible Base (ULC)	500-033210C		
HFPT-11C	Addressable Thermal Fire Detector (ULC)	500-0333 80C		
DB-11C	Detector Mounting Base (ULC)	500-095687		
DB-HR-C	Relay Base (ULC)	500-033220C		

Siemens Building Technologies Fire Safety Fire Safety 8 Fernwood Road Florham Park, NJ 07932 Tel: (973) 593-2600 FAX: (973) 593-8670 Website: www.sbt.siemens.com/fis

12/04 10M SFS4G Printed in U.S.A. Fire Safety 2 Kenview Boulevard Brampton, Ontario Canada L6T 5E4 Tal: (905) 799-9937 FAX: (905) 799-9858

December 2004

Supersedes sheet dated 10/02

SIEMENS Z

Strobes, Horns, Horn/Strobes

ENGINEER AND ARCHITECT SPECIFICATIONS

- · 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 DSC sync modules, FS-250 panel, XLS panel, or PAD-3 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 wining 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 homs, strobes and hom/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 hom/strobes and NH homs and have the same high performance ratings. The Series Z appliances are "Special Applications" listed with Siemens panels.



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 DSC sync modules, FS-250 panels, XLS panels, or PAD-3 power supples with built-in sync protocol. The strobes shall not drift out of synchronization at any time during operation. Audibles 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 nonsynchronized 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 homs 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.

Model Number	Order Code	Mounting		Agency Approvals				
		Options#	UL	ULC	CSFM	FM		
ZH-MC-R	500-636161	B, D, E, F	×	#	#	#		
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	8, 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	8, D, E, F	X					
ZH-HMC-CR	500-636167	8, D, E, F	X	#	#	#		
ZH-HMC-CW	500-636168	8, D, E, F	X	#	#	#		
ZR-MC-R	500-636169	B, D, E, F	X	#	#	#		
ZR-MC-W	500-636170	B, D, E, F	- X 1		#	#		
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	×	#	#	*		
ZBB-R	500-636193	Accessory - Includes base, dust cover, mounting screws and installation sheet						
Z88-W	500-636194	Accessory - Includes base, dust cover, mounting so	rews and	installa	tion shee	≥t		

Ordering Information / Mounting Requirements / Approvals

X = listed/approved

= pending

* = Refer to Data Sheet #2585 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 Fire Safety Fire Safety 8 Fernwood Road Florham Park, NJ 07932 Tel: (973) 593-2600 FAX: (973) 593-6670 Website: www.sbt.siemens.com/Tis Pri

7/07 5M SFS-IG Printed in U.S.A. Fire Safety 2 Kenview Boulevard Brampton, Ontario Canada L&T 5E4 Tel: (905) 793-9937 FAX: (905) 799-9858

July 2007

SIEMENS HFP-11 FireFinder[™] Detector

Intelligent Fire Detector for FireFinder XLS and FS-250 Control Panels

ENGINEER AND ARCHITECT SPECIFICATIONS

Model HFP-11

- Most Sophisticated "Detector Intelligence" available today
- Multi-Criteria fire detection for the price of a photoelectric detector
- FirePrint[™] Technology to discriminate between deceptive phenomena and an actual fire
- Easily programmed to match specific hazard profiles from the control panel
- Polarity Insensitive with SureWire™ Technology
- · Pre-Alarm reporting based on fire profile selected
- · Remote sensitivity measurement capability
- System logic activation based on any of three inputs from detector (smoke, heat or neural network)
- Detectors are self-testing, completing diagnostics every 4 seconds
- Field cleanable chamber with replaceable chamber parts available
- Multi-color detector status LED
- Two-wire operation
- Compatible Model DPU field device programmer/tester unit
- Supports software based automatic environmental compensation
- Optional fully programmable relay base, audible base, and duct housing
- ULC Listed, CSFM, FM, NYMEA Approved

Introduction

The Siemens Building Technologies, Fire Safety Division HFP-11 Intelligent Fire Detector provides the life safety industry with the most highly evolved detection system available today. The HFP-11 utilizes advanced detection technology that allows the detector to distinguish non-threatening deceptive phenomena, such as cigarette smoke, from actual fire hazards, while optimizing detection for the area in which it is installed. No other detection system available today offers a higher level of protection or nuisance alarm immunity. The HFP-11 uses state-of-the-art microprocessor circuitry with error check, detector self-diagnostics and supervision programs. The HFP-11 intelligent fire detector is compatible with the Fire Safety Model DPU field device programmet/ tester unit, which is a compact, portable, menu-driven accessory for electronically programming and testing detectors, easily and reliably. The DPU eliminates the need for cumbersome, unreliable mechanical programming methods, such as dials or switches and reduces installation and service costs by electronically programming and testing the detector prior to installation. The HFP-11 fire detector is compatible with the Fire Finder XLS series of control panels.

CATALOG NUMBER





Description

The HFP-11 is a plug-in, two-wire, multi-sensor detector with both photoelectric and thermal inputs and is compatible with Fire Finder XLS and FS-250 series of control panel systems. Each detector consists of a dust resistant, field-cleanable photoelectric chamber, a solid state non-mechanical thermal sensor, and microprocessor based electronics with a low-profile plastic housing. The HFP-11 utilizes state-of-the-art ASIC circuitry and surface mount technology for maximum reliability. Every HFP-11 fire detector is shipped with a protective dust cover. The HFP-11 fire detector utilizes an infrared light emitting diode (IRLED), and 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 nonsmoke airborne contaminants in such a way as to maintain stable, consistent detector operation. When smoke enters the detector chamber, light emitted from the IRLED is scattered by the smoke particles and is received by the photodiode.

The HFP-11 also utilizes a modern, accurate, shockresistant thermistor to sense temperature changes. The "on-board" FirePrint technology allows the detector to gather smoke and thermal data, and to analyze this information in the detector's "neural network" By comparing data received with the common characteristics of fires, or fire fingerprints, the HFP-11 can cornpare these "Fire Prints" to those of deceptive phenomena that cause other detectors to false alarm. The advanced FirePrint technology allows the HFP-11 to accurately determine a true fire hazard from a nonthreatening deceptive phenomena WITHOUT needing to use alarm delaying verification and confirmation techniques, which can increase the probability of losses due to fire. The HFP-11 provides the highest level of detector intelligence available today with a detector/control panel link that allows the user to program the detector for the specific hazard profile using a simple software menu selection. Detectors are optimized by selecting one of the following eleven applications:

- Office/Retail
- Lobby
- Computer Room
- Dormitory
- Healthcare
- Parking Garage
- Utility/Transformer Room
- Hostile Environment
- Precious Storage
- Air Duct
- Warehouse/Light Manufacturing

The software does the rest; no guessing on detector sensitivities or alarm verification; the control panel programs the HFP-11 detector for the protected area without hassle and without confirmation delays. Once optimized for the hazards in the protected area, the HFP-11 provides the best detection you can buy. Should the operator or installer forget to program the detector, the HFP-11 will revert to a default setting that allows it to operate as an office environment detector.

The HFP-11's FirePrint technology monitors input from both the photo chamber and the thermal sensor, evaluating this information with sophisticated mathematical formulas, or algorithms, comparing this input to characteristics of both threatening fires and deceptive phenomena that would "tool" any ordinary detector. This technology was developed over years of research and reviewing the results of over 20 years of fire test data in one of the world's most advanced fire research centers.

The results of this research are the mathematical models that form the algorithms used in FirePrint. No other fire detector has this level of intelligence or this amount of research and development supporting it's design. The microprocessor's software can identify and disregard false input caused by radio frequency (RFI) and electromagnetic (EMI) interference, and validates all trouble conditions before annunciating or reporting to the control panel. The HFP-11 detector's microprocessor uses an integral EEPROM to store the detector's address and other critical operating parameters which include the assigned program values for alarm and trouble thresholds.

Communications within the detector itself and between the HFP-11 and the control panel, or with the DPU field device programmer/tester unit, are supervised and safe-guarded against disruption by reliable, microprocessor based error checking routines. Additionally, the micro-processor supervises all EEPROM memory locations and provides a high degree of EEPROM failure fault tolerance.

The HFP-11 determines its operating status to be normal, in alarm, or in trouble depending on the difference between the alarm threshold values stored in the detector's memory and the detector's latest analog measurement. The detector then communicates changes in its status to the control panel. In addition, the FireFinder XLS control panel will sample the value of the HFP-11's analog signal over a period of time in order to determine if those values indicate excessive buildup in the photo chamber; if so, the FireFinder XLS control panel will indicate that the particular detector requires maintenance.

The HFP-11 is listed as a self-testing device. The HFP-11's visible light emitting diode (LED) flashes green every 4 seconds to indicate it is communicating with the control panel and that it has passed its internal self-test. Should the detector sense a fault or failure within its systems, the LED will flash amber and the detector will transmit that information to the control panel. A quick visual inspection is sufficient to indicate the condition of the detector at any time. If more detailed information is required, a printed report can be provided from the Fire Finder XLS panel indicating the status and settings assigned to each individual detector. When the HFP-11 moves to the alarm mode, it will flash red and to continue flashing until the system is reset at the control panel. At that same time, any user defined system alarm functions programmed into the system are activated. Detector sensitivity, calibration, and identification are dynamically supervised by the control panel. Detector sensitivity and pre-alarm levels are a function of the application chosen at the control panel and are controlled by the panel. If an alternate, non-FirePrint mode is selected, then the sensitivity can be changed from the control panel.

The DPU Device Program/Test Unit accessory is used to program and verify the detector's address. The technician selects the accessory's program mode to enter the desired address. The DPU automatically sets and verifies the address and tests the detector. The DPU operates on AC power or rechargeable batteries, providing flexibility and convenience in programming and testing equipment almost anywhere.

When in the test mode, the DPU will perform a series of diagnostic tests without altering the address or other stored data, allowing technicians to determine if the detector is operating properly. The HFP-11 fire detector may be installed on the same initiating circuit with HMS series manual stations, HTRI series interfaces, HCP output control devices, or HZM series of addressable, conventional zone modules. All HFP-11 detectors can be cleaned in the field, when required, by simply removing the detector cover and unsnapping the photo chamber. There is also the option of cleaning the interior of the detector with a clean, soft cloth or brush, or replacing the labyrinth and bug screen included in the detector maintenance kit, model DMK-11.

The HFP-11 uses the low-profile surface mounting base, model DB-11. This base mounts on a 4-inch octagon, square, or a single gang electrical box. The base utilizes screw clamp contacts for electrical connections and self-wiping contacts for increased reliability. The base can be used with the optional LK-11 detector locking kit which contains 50 detector locks and an installation tool, to prevent unauthorized removal of the detector head. The DB-11 base has integral decorative plugs to cover the outer mounting screw holes. All HFP-11 detectors are approved for operation within the UL specified temperature range of 32 to 100 degrees F (0 to 38 degrees C).

Application Data

Installation of the HFP-11 series of fire detectors requires a two-wire circuit. In many retrofit cases, existing wiring may be used. "T-tapping" is permitted only for Style 4 (Class B) wiring. The HFP-11 is polarity insensitive. This feature can greatly reduce installation an debugging time. HFP-11 fire detectors can be applied within the maximum 30 foot center spacing (900 sq. ft. areas) 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 for detectors. Should questions arise regarding detector placement, observe NFPA 72 guidelines. Good fire protection system engineering and common sense dictate how and when fire detectors are installed and used. Contact your local Fire Safety distributor or sales office whenever you need assistance applying FirePrint in unusual applications. Be sure to follow NFPA guidelines and UL/ULC approved installation instructions, which are included with every Fire Safety detector, and local codes as for all fire protection equipment.

Dimensions



Technical Specifications

Operating	Temperature:	+32°F	(0°C)	to 11	00°F	(38°C)
		per L	JL 268/	268	BA	

Humidity:

0-93% Relative Humidity Non-Condensing

Maximum spacing:

30 foot centers (900 sq. ft.) per NFPA 72 Chapter 5 and CAN/ULC-S524

Medel	Description	Pari Number
HFP 11	Addressable FirePrint Fire Detector	500-033290
D8-11	Detector Mounting Base for Series 11	500-094151
DB-TIE	Detector Base (small)	500-094151E
AD-11P	Ar Duct Housing for Series 13	500 095656
AD-HR	Ar Duct Housing wiRelay for H. Series	500-033220
DB-HR	Relay Base for H-Series Intelligent Detectors	580-033220
AD8H-11	Audibie base	500-033210
RL.HC	Remote (red) atarm indicator: 4" octagen box mount	500 033230
RL:HNY	Remote fred) alarm indicator- single gang box mount	500-033310
UC-11	Base Locking Kit for Series II detectors	500-695350
омқ -11	Series 11 Maint Kit (replacement labyrinth and bug bug screen)	500-695339
In Canada O	hder:	
HFRIIC	Addressable FirePrint Fire Detector (ULC)	500-095112C
DB-IIC	Detector Mounting Base for Series 111ULC)	500-095687
AD-11PC	Air Duct Housing (ULC)	500-095584
OB-HRC	Relay Base for Series II Intelligent Detectors (ULC)	500-033220C
ADBH 11C	Audible Base for Series 11 Intelligent Detector (ULC)	500-033210C

NOTICE: The use of other than Fire Safety detectors and bases with Fire Safety equipment will be considered a missipplication of Fire Safety equipment and as such void all warranties either expressed or implied with regard to loss, damage, isbiblities and/or service problems.

> Fire Safety Fire Safety 2 Kenview Boulevard 8 Fernwood Road Fiorbam Park, NJ 07932 10/05 Brampton, Ontario Tel: (973) 593-2600 **5M** Canada L6T 5E4 SFS-IG Tel: (905) 799-9937 FAX: (973) 593-6670 October 2005 Website: www.sbt.siemens.com/fis Printed in U.S.A. FAX: (905) 799-9858 Supersedes sheet dated 7/03

Siemens Building Technologies Fire Safety

4307

SIEMENS FS-DACT

Digital Alarm Communication Transmitter for the FireSeeker FS-250 System

ENGINEER AND ARCHITECT SPECIFICATIONS

- UL Listed for Central Station/Remote Station Monitoring (NFPA 72 Chapter 4)
- Four separate monitoring accounts available
- Two phone lines available
- Can send serial information to monitoring station
- Reports in 8 standard communication formats
- Automatic 24 hour test available
- Mounts within the FS-250 enclosure directly on the main processor board
- All programming is done as part of the FS-250 configuration



The Model FS-DACT Digital Alarm Communication Transmitter is used to provide communication between the FS-250 and a central or remote monitoring station. The FS-DACT supports two lines and four accounts, and can transmit serial information (including the address of the event) to the monitoring station. Any of the accounts can send alarm, supervisory, trouble, reset, or trouble restore information (or any combination) as required. Communication protocols available include SIA DCS 8, SIA DCS 20, Ademco Contact ID, 3/1 1400 Hz, 3/1 2300 Hz, 4/2 1400 Hz and 4/2 2300 Hz. The FS-DACT can perform the automatic 24 hour test required by NFPA.

The FS-DACT mounts within the FS-250 enclosure on an 8-pin connection point on the main board. No external enclosure is required, and no wires are required between the panel and the dialer. Programming of account and dialing information is done as part of the system configuration. No external programmer for the dialer is required, and dialer information can be downloaded as part of the system configuration.

Ordering Information

Nodei Number	Description	Part Number
FS-DACT	Digital dialer for the FS-250	500-699464



NOTICE: The use of other than Fire Safety detectors and bases with Fire Safety equipment will be considered a misapplication of Fire Safety equipment and as such voids all warranties either expressed or implied in regard to loss, damage, liabilities and/or service problems.

Fire Safety Fire Safety 8 Fernwood Road 2 Kenview Boulevard Florham Park, NJ 07932 1/04 Brampton, Ontario Tel: (973) 593-2600 **5M** Canade L6T 5E4 FAX: (973) 593-6670 SFS-IG Tel: (905) 799-9937 January 2004 Printed in U.S.A. FAX: (905) 799-9858 Website: www.sbt.siemens.com/tis Supersedes sheet dated 6/03

Siemens Building Technologies Fire Safety

SIEMENS FS-RD2

Remote LCD Annunciator for the FireSeeker FS-250 System

ENGINEER AND ARCHITECT SPECIFICATIONS

- 4 x 20 Character Backlit Display
- System Status LEDs
- Optional local sounder
- Built-in lamp test button
- Integral System Control Capabilities (with keyswitch)
- Integral System Maintenance access (with keyswitch and password)
- (씨) UL Listed



The Model FS-RD2 Remote Display is used for annunciating system events remotely from the fire alarm control panel on the FireSeeker FS-250 system. The FS-RD2 will mimic the system status LEDs and the 80-character event message found on the main system panel. The 4 x 20 LCD backlit display will illuminate upon receiving any event from the system, or upon pressing any button on the FS-RD2.

System Acknowledge, Silence and Reset Capabilities are available on the FS-RD2. The control functions must be enabled using the integral keyswitch. Up to sixteen supervised FS-RD2 annunciators can be used simultaneously on the FireSeeker FS-250 system.

Mounting is accomplished using a standard 6 gang 2" deep electrical box. The FS-RD2 requires a 2-wire data connection from the RS-485 port on the FS-250, as well as 24 VDC power. Maximum wire loop resistance is 25 ohms.

Ordering Information

Model Number	Description	Part Number
FS-RD2	Remote LCD display for the FS-250	500 648980



NOTICE: The use of other than Fire Safety detectors and bases with Fire Safety equipment will be considered a misapplication of Fire Safety equipment and as such voids all warranties either expressed or implied in regard to loss, damage, liabilities and/or service problems.

Fire Safety Fire Safety 8 Ferriwood Road 2 Kenview Boulevard Florham Park, NJ 07932 1/04 Brampton, Ontario Tel: (973) 593-2600 **5**M Canada L6T 5E4 Siemens Building Technologies FAX: (973) 593-6670 SFS4G Tel: (905) 799-9937 January 2004 Fire Safety Website: www.sbt.siemens.com/fis Printed in U.S.A. FAX: (905) 799-9859 Subersedes sheet stated 6/03

Fire Safety

SIEMENS FireSeeker Model FS-250

Addressable Fire Alarm Control Panel

ENGINEER AND ARCHITECT SPECIFICATIONS

- One intelligent signaling line circuit (Style 4 or 6)
- SureWire polarity insensitive loop wiring
- Utilizes H-Series detectors and devices
- Supports up to 252 addressable inputs AND signal/relay outputs
- Devices operate on standard wire, no twist or shield required
- FirePrint application specific fire detection
- 4 Class B/2 Class A NAC circuits
- Up to 6 amps of NAC power
- Built in strobe synchronization protocol
- One man walk test (silent or audible)
- 80 Character backlit LCD display
- Optional internal DACT capable of transmitting point or group information
- Programmable from front keypad or Windows
 based PC configuration tool
- Built in RS-232 port for computer programming
- 2000 event history log
- Alarm, trouble, supervisory and power fail relays built-in
- Auto program feature makes system start-up faster
- Maintenance and technician level passwords
 - (UL), MEA and CSFM listed

The FS-250 addressable fire alarm control panel is a small, low cost fire alarm panel suited for stand-alone operation in small to medium sized facilities. It features a single addressable input device circuit and four notification appliance circuits. The system is available with both a black or red enclosure, with operating controls and indicators behind a locked door. The FS-250 is Listed by Underwriters Laboratories.

Main System

The FS-250 indicates alarm, trouble and supervisory conditions with an 80 character backlit LCD display and integral system status LEDs. Acknowledge, alarm silence, and system reset are accomplished with built-in membrane control buttons. Basic user and

maintenance level functions such as viewing history or system enable/disable are also accomplished through the membrane control buttons. Password protection of maintenance level functions is present. The main system can support up to 38 AH battery sets, up to 10 AH will fit inside the enclosure.

The basic FS-250 features a single addressable signaling line circuit (Style 4 or 6) capable of supporting up to 252 addressable input devices, whether they are detectors, manual pull stations, or contact monitoring points. Each detector can also have an optional audible detector base, relay detector base, or remote lamp associated with it. These auxiliary devices are completely controlled through logic, and are not required to activate simultaneously with the detector.





The system also has four class B or 2 class A Notification Appliance Circuits built into the main board. Each circuit has a capacity of 1.5 amps of 24VDC for powering homs, strobes, chimes, and other notification appliances. The total base system capacity for the four circuits is 3.0 amps and can be expanded to 6A. Each NAC is fully programmable, and supports standard and custom coded outputs of audible devices. Systems can be configured to sound different codes on the same NAC to indicate different conditions.

The FS-250 has four Form C relays on the main board for monitoring alarm, supervisory, power fail and trouble conditions. Each relay is rated at 1 amp@28VDC. Auxiliary 24VDC power is also available on the main board, with a capacity of up to 0.5 amps.

The Loop

The FS-250 utilizes the advanced P-2 protocol for the detection circuit. The P-2 loops features include SureWire™ technology providing, 252 addresses (inputs AND outputs), polarity insensitivity, response time under 3 seconds, retrofit installations using almost any type of wire (shielded, non-shielded, twisted, etc.)

You can install an FS-250 using any of the H-series P-2 devices including the HFP-11 FirePrint[™] detector. But we also offer a new low-cost HFPO-11 detector that is a non-FirePrint photoelectric device for the less-demanding, more cost-competitive applications.

If you require two detector accessories, such as a relay or audible base AND a remote lamp, you can install the new ILED-HC or ILED-HW Intelligent Remote L.E.D. that con be programmed to mimic the detector L.E.D. or can respond to panel logic (see ILED installation or catalog sheet for details.)

Optional Modules

Remote LCD Annunciator

The FS-250 supports a remote LCD display called the FS-RD2. This remote display uses the same 80 character backlit LCD display found on the main system panel. The FS-RD2 has remote acknowledge, silence, and reset capability, secured with a keyswitch. User and maintenance level functions are also possible from this remote display. Maintenance level functions require the system maintenance password for activation. The FS-RD2 communicates with the main system board via an RS-485 communication network. Up to sixteen FS-RD2 remote displays can be supported on a single FS-250 system. The FS-RD2 mounts in a 2" deep 6 gang electrical box, and the plate on the display is suitable for flush mounting.

Digital Alarm Communicator Transmitter (DACT)

Communication between the FS-250 and a monitoring station is accomplished with the Model FS-DACT Digital Alarm Communication Transmitter. The FS-DACT supports two lines and four accounts, and can transmit serial information by point to the Central or Remote station. Communication protocols available include SIA DCS 8, SIA DCS 20, Ademco Contact ID, 3/1 1400 Hz, 3/ 1 2300 Hz, 4/2 1400 Hz and 4/2 2300 Hz. The FS-DACT mounts within the FS-250 enclosure on an 8-pin connection point on the main board. No external enclosure is required, and no wires are required between the panel and the dialer. Programming of account and dialing information is done as part of the system configuration. No external programmer for the dialer is required.

Municipal Tie/Leased Line

For installations that require connection to a municipal call box or a leased line, the Model FS-MT municipal tie module is used. The FS-MT provides a local energy output for municipal call box connection and a reverse polarity output for lease line connection. The unit mounts within the FS-250 enclosure on an 8-pin connection point on the main board. Configuration of the FS-MT parameters is done as part of the system configuration.

Programmable Relays

Programmable relays are available on the FS-250. A remote processor board communicates with the main system board via an RS-485 communication network. This processor board controls a relay board mounted adiacent to it. The relay board has eight Form C relay contacts, rated at 1 amp @ 28VDC maximum. Model FS-RU relay unit contains one processor board and one relay board to add eight relays to an FS-250 system. Each processor board can support up to three relay boards simultaneously, for a total of 24 programmable relays per processor board. Additional relay extender boards are available as Model FS-RE8. A total of eight processor boards (including serial annunciator processor boards) can be supported simultaneously by the FS-250. All programmable relay processors and modules can be mounted in a Model FS-AE accessory enclosure.

Programmable Serial Annunciator Drivers

Programmable serial annunciator drivers are available on the FS-250. A remote processor board communicates with the main system board via an RS-485 communication network. This processor board controls a serial annunciator driver board mounted adjacent to it. The driver board has sixteen outputs for LEDs. All serial annunciator outputs are supervised. Model FS-SAU-2 serial annunciator unit contains one processor board and one serial annunciator driver board to add 16 LED drivers to an FS-250 system. Each processor board can support up to four additional driver boards simultaneously, for a total of 64 programmable serial annunciator drivers per processor board. Additional serial annunciator extender boards are available as Model FS-SAE16. A total of eight processor boards (including relay processor boards) can be supported simultaneously by the FS-250. All programmable serial annunciator processors and modules can be mounted in a Model FS-AE accessory enclosure.

Programming/Configuration Options

Configuration of the FS-250 can be accomplished in two ways. The operator interface includes a 16 button keypad. This keypad can be used to configure all system parameters, including custom messages and logic, right at the panel with no other configuration tools. Alternately, the Model FS-CT2 configuration tool can be used on a laptop computer to upload, download, and edit the system configuration. The Model FS-CT2 configuration tool includes a connection cable for use between the FS-250 and a 9-pin serial connection, and the FS-CT2 software. Use of the FS-CT2 software requires a computer running Windows 98, Windows 2000, or Windows XP. The FS-CT2 tool can be used to generate configuration reports and download and print history.

If an alarm or other system event occurs during system configuration, the event will cause the panel to annunciate the alarm and operate the appropriate outputs.

Custom messages for system addresses consist of two lines of twenty characters each. The characters include both upper and lower case letters as well as numbers, punctuation marks, and control characters. This forty character custom message will be displayed for all events at that address.

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.) 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

FS-250 Dimensions

22" x 18" x 5 1/4" deep - enclosure only 22 9/32" x 18 3/8" x 5 1/4" deep - enclosure with door

Ordering Information

Nodel Number	Model Number Description			
FS-250R	FS-250, Single Loop Panel, Red	599-049346		
FS-250	FS-250, Single Loop Panel, Black	599-049345		
FS-RD2	Remote Annunciator, Black	500-648980		
FS-RU2	Relay Processor Card	500-649308		
FS-REB	8 Relay Extender	500-699467		
FS-SAU2	Serial Annun Processor Card	500-649307		
FS-SAE16	16 Output Annunciator Extender	500-699469		
FS-AE	Acc Enclosure for Serial Drivers	500 699470		
FS-DACT	Serial DACT	500-699464		
FS-MT	Municiple Tre Module	500 699462		
FS-SFT-R	Semi Flush Trim, Red	500-648955		
FS-SFT	Semi Flush Trim, Black	500-648954		
FS-NPE	Nac Power Expander Transformer	500-649120		
HEPO-11	Photo Only Detector	500-034800		
FS-250-CON	FS-250 Electronics package	500-649110		
FS-250 ENCL	FS-250 Enclosure, Black	500 648952		
FS-250-ENCI-R FS-750 Enclosure, Red		500-648953		

Wiring, Main Termination Board



Siemens Building Technologies **Fire Safety**

Fire Safety 8 Fernwood Road Florham Park, NJ 07932 Tel: (973) 593-2600 FAX: (973) 593-6670 Website: www.sbt siomons.com/fis

Fire Safety 2 Kenview Boulevard 8/05 Brampton, Ontario **5M** Canada 16T 5E4 SFSIG Tel: (905) 799-9937 Printed in U.S.A.

FAX: (905) 799-9858

August 2005 Supersedes sheet dated 1/04

SIEMENS MSM SERIES

Metal Manual Fire Alarm Box

- ENGINEER AND ARCHITECT SPECIFICATIONS

- Rugged Die-Cast Metal Housing
- Reset Key Matches Control Panel
- Optional Break Glass Operation
- Single-Gang Semi-Flush Mount
- Optional Surface Mount Backbox
- Double-Action Institutional, Weather-Proof and Explosion-Proof Models Available
- UL Listed, ULC Listed, CSFM, FM and NYMEA Approved



Standard Model Or Weatherproof



Institutional Model

Description

The MSM Series manual stations feature a rugged diecast metal housing that satisfies both architectural and code requirements for manual fire alarm box initiation devices. The MSM-Series box features keyed reset using the same key as the control panels.

The MSM Series models are low-profile with all surfaces either painted or plated to inhibit corrosion. These boxes have raised lettering and are shipped with two reset keys and a break glass rod (use of rod is optional.) Options include: double action, institutional, weatherproof, and explosion-proof. These stations are equipped with a S.P. S.T. switch rated at 10amps @ 120 VAC and all connections are made to a terminal block. The explosion-proof model has a D.P. D.T. switch. Both the weatherproof and explosion-proof models are shipped complete with backbox. (Backbox is optional with other models, or you can mount to standard single-gang box.)

These models are intended for use with all Siemens Building Technologies, Fire Safety Division conventional zones, but can also be used with addressable zones when used in conjunction with a TRI-Series addressable module.



Dimensions

Station

Width 3.20 in. Height 4.75 in. Depth 1.20 in. (2.30 in. overall, including back of switch)

Station w/Double Action

Width3.33 in.Height4.57 in.Depth1.50 in. (2.60 in. overall, including back of switch)

Weatherproof Model

Width 3.20 in. Height 4.75 in. Depth 2.75 in.

Explosion-proof Model

Width 3.20 in. Height 4.75 in. (6.00 in overall, including mounting ears) Depth 3.50 in.

Ordering Information

Model Number	Description	Part Number
MSM-K	Manual Station, Metal w/Key	500-698215
MSM-KD	Manual Station, Matul w/Key, Double Action	500-698216
MSM-K-WP	Menual Station, Metal w/Key, We atherproot	500-698217
MSM-KD-WP	Menual Station, Metal w/Key, Weatherproof, Double Action	500-698218
MSM-EXP	Manual Station, Metal w/Key, Explosion-proof	500-698219
MSM-INST	Manual Station, Metal w/Key, Institutional	500-698220
MSM-BOX	Surface Backbox for MSM-series Manual Stations	500-638221



Double Action Model



Explosice-proof Model

Siemens Building Technologies Fire Safety Fire Safety 8 Fernwood Road Florham Park, NJ 07932 Tel: (973) 593-5600 FAX: (973) 593-6670 Website: www.sbt.siemens.com/fis

4/07 5M SFS-IG Printed in U.S.A. Fire Safety 2 Kenvisw Boulevard Brampton, Onterio Canada LST 5E4 Tel: (906) 799-9937 FAX: (905) 799-9858

April 2007 Supersodes sheet dated 6/09

n servin e k e r að r	الاستعلى المالية الاستان المالية المالية المالية المالية المالية المالية المالية المالية المالية الم		, 1997 arri ar	4.24 i.e. 2 Mean Annua -	கள், திறையில் பிருப்பு பிரிய காட்டிற்று கலை கள், இது கால் ப		ال المالي المالية الم
		DEVICE LEGEND					
		ПЕМ		SYM	ITEM	P/N	NOTE
		. 1	1	FACP	FIRE ALARM CONTROL PANEL	FS-250	
		2	1	FANN	FIRE ALARM ANNUNCIATOR	FS-RD2	
		3	1	DACT	DIGITAL ALARM COMMUNICATION/TRANSMITTER	FS-DACT	
		4	0	F	MANUAL PULL STATION	MSM-KD	
		5	0	$\langle P \rangle$	Smoke detector	HFP-11	
		. 6	0	Ž	CONVENTIONAL ZONE MODULE	HZM	
	·	7	0	Œ	HEAT DETECTOR	DT-135R	
		. 8	0		SINGLE INPUT INTERFACE MINI MODULE	HTRI-M	
← 7	TO NOTIFICATION DEVICES AS REQUIRED	9	0		DUAL INPUT INTERFACE MODULE	HTRI-D	
	1-7	10	0	Ţ,	SINGLE INPUT INTERFACE MODULE	htra-s	
to devices in New Restaurant — \leftarrow Z	$+ \leftarrow -\overline{Z}$ 1-8	11	0	Ţ,	SINGLE INPUT INTERFACE MODULE WITH RELAY	HTRI-R	
$\leftarrow \overline{2}$] 1–9					L. L.	NO. REVISIONS
← <u>[</u> 2		-					
	TO NEW FUTURE DEVICES	[t					
	OFFICE TOWER, APT HEATS, ETC.						
		1					
120VAC DEDICATED CIRCUIT							OWNER
FANN		ł.					DRAWN BY: DRS
		i.					BWB
NEW							
							11 EXCHANGE ST
	$1-3 [2] \longrightarrow 1-0 EXISTING DEVICES$						PORTLAND, MAINE
DACT							FIRE ALARM CONTRACTOR:
							EASTERN FIRE
BATTERIES		, }					AUBURN/LEWISTON INDUSTRIAL AIRPARK, AUBURN, MAINE 04810
2 NO CONDUIT ENTRY ALL	CONDUIT ENTRY ALLOWED						170 KUTTYHKANG AMENUE, P.O. BOX 1350 Phanes (2007)704-1507 Fax (2017)702-0568
אות בוס מומכר							JOE SOLEY PROPERTIES
							DWG. NO. JOB NUMBER EFSFA-40951
		4					FA-1 SCALE 1/8"=1'-0"
<u> </u>		_{					SYSTEM DETAIL 9/8/10

1