Cit	y of Portland, Maind	e - Buil	ding or Use	Permit Applicatio	n Pe	rmit No:	Issue Date:		CBL:		
	Congress Street, 0410		•			09-0850			038 E0	12001	
Loca	tion of Construction:		Owner Name:		Owne	er Address:			Phone:		
52	Center St		Picture Island	Inc	Po F	3ox 15148					
Busi	ness Name:		Contractor Name	:	Contr	actor Address:			Phone		
			Protection One	e/Kevin Bridgham	10 N	Manuel Drive	Portland		20734753	09	
Less	ee/Buyer's Name		Phone:		Perm	it Type:				Zone:	
			ļ		Fire	e Alarm Syste	em			18-5	
Past	Use:		Proposed Use:		Perm	it Fee:	Cost of Wor	 k:	CEO District:		
Cor	mmercial		Commercial / 1	Install Fire Alarm		\$110.00	\$8,80	00.00	1		
					FIRE	DEPT:	Approved		CTION:		
ĺ					WIC	onditions =	Denied	Use Gr	oup:	Type:	
					01	24lo9 L	_ Defiled	B			
					1 sla	J 110-1				,	
Prop	osed Project Description:		<u> </u>		1	_	<b>~</b>		0		
_	tall Fire Alarm				Signa	iture: BÓDDA	(a (262)	Signatu	ire: 1 M 11 1	d	
						ESTRIAN ACT	TITLES DIST				
					A nation		v		/Conditions	Denied	
					Actio	on: Appro	ved App	novea w	Conditions *	Demed	
					Signa	ature:			Date:		
Pern	nit Taken By:	Date Ap	oplied For:		1,	Zoning	Approva	1			
gg		08/1	<b>V</b> 2009			20111116	, -pp.				
1.	This permit application of	does not i	preclude the	Special Zone or Revi	Zoni	ng Appeal		Historic Preservation			
1.	Applicant(s) from meeting			Shoreland	·e	e Not in District					
	Federal Rules.			Shoreland	☐ Variance						
2	Duilding namits do not	inaluda n	dumbina				aneous		Does Not Red	guire Review	
2.	Building permits do not septic or electrical work.		olumbing,	Wetland					Boes not nee	quire receive	
2	Building permits are voi		is not started	Flood Zone Conditional Us					Requires Rev	view	
3.	within six (6) months of			Trood Zone	Conditional Use						
	False information may in			Subdivision		Interpre	etation		Approved		
	permit and stop all work		Č	Suburvision		,e.p.e					
	•			Site Plan		Approv	ed		Approved w/	Conditions	
	and the second s			Site i iuii			•				
				Man Minor MN	r [ ]	Denied			Denied		
	r	/-			· 🖳	Democ			Demieu		
				also	-1 na	) Data:			Nata:		
				Date: 4/105	<del>101</del>	Date:			Date:		
				•	1 (						
				CERTIFICAT	ION						
	i doda i d					ا استندادههمس	a outhorise 1	hv 44 -	oumer of rece	rd and that	
Ihe	reby certify that I am the even been authorized by the	owner of	record of the na	imed property, or that t	ne pro	posed work in tand Lagree	to conform	to all a	innlicable laws	of this	
inri	sdiction. In addition, if a	nermit fo	or work describe	d in the application is	ssued.	I certify that	the code of	ficial's	authorized repr	resentative	
shal	Il have the authority to ent	ter all are	as covered by si	uch permit at any reaso	nable	hour to enfor	ce the prov	ision o	f the code(s) ap	plicable to	
	h permit.		•	•			•				
	NAME OF A PROPERTY.			4 DD 2 E			DATE	·	DLIC		
SIG	NATURE OF APPLICANT			ADDRES	55		DATE	2	PHC	ME	
RE:	SPONSIBLE PERSON IN CHA	RGE OF W	VORK, TITLE				DATE		PHC	ONE	

Form # P 04

## DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

### CITY OF PORTLAND

Kevin B

Please Read Application And Notes, If Any, Attached

NOLEGICAL

Permit Number: 090850

038 E012001

This is to certify that \_\_\_\_ Picture Island Inc /Protection O

has permission to Install Fire Alarm

AT \_52 Center St

provided that the person or persons, figure or companies according this permit shall comply with all of the provisions of the Statutes of Mane and of the Ordinasces of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

nust be tion of inspection Noti nd written permission procured his building or pact mereof is give befo or otherwise closed-in. 24 lathe NOTICE IS REQUIRED. HOU

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. \_\_\_\_\_\_\_\_\_ Health Dept.

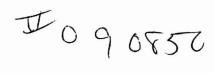
Appeal Board

Other

Department Name

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Bu	ilding or Use Permi	t	Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 Tel:	•		09-0850	08/10/2009	038 E012001
Location of Construction:	Owner Name:	0	wner Address:		Phone:
52 Center St	Picture Island Inc	I	Po Box 15148		
Business Name:	Contractor Name:		Contractor Address:		Phone
	Protection One/Kevin	Bridgham 1	10 Manuel Drive P	Portland	(207) 347-5309
Lessee/Buyer's Name	Phone:	P	ermit Type:		
			Fire Alarm Systen	n	
Proposed Use:		Proposed	Project Description:		
Commercial / Install Fire Alarm		Install I	Fire Alarm		
		I motern	THO THAIN		
Dept: Zoning Status:	Approved	Reviewer	Marge Schmucka	al Approval D	oate: 08/25/2009
Note:	Пррготов	Reviewer.	wange genmaeka	n Approvat B	Ok to Issue:
Note:					Ok to issue:
Dept: Building Status:	Approved	Reviewer:	Penny Littell	Approval D	eate: 08/27/2009
Note:	ripprovod	12011011011	Tomiy Enter	Approvar	Ok to Issue:
Titote.					OR to issue.
Dept: Fire Status:	Approved with Condition	ns Reviewer:	Ben Wallace Jr.	Approval D	eate: 08/24/2009
Note:					Ok to Issue:
1) Annunciator and all pull stations	s shall be labeled "Local .	Alarm Only - Dial	011" if system is	not monitored	OR to 135uc.
•		·	•		
2) A final acceptance test shall be	scheduled with the fire de	partment. Call 87	4-8703 to schedul	e.	
3) All fire alarm records required by	by NFPA 72 should be sto	ored in an approve	d cabinet located a	at the FACP and key	ed alike, labeled
"FIRE ALARM RECORDS".					
4) Annunciator panel shall be located	ted at front door.				
5) Fire Alarm system shall be main	tained.				
If system is to be off line over 4		e in place.			
Dispatch notification required 8	74-8576.				
6) The fire alarm system shall com	ply with NFPA 72 and Fin	re Department Tec	chnical Standard.	A compliance letter	is required.
7) Installation of a Fire Alarm syste	em requires a Knox Box t	o be installed per	city crdinance		



### **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.

Installation address: 52 Cer	nter Stre	et	CBL:	238 -	£	012						
Exact location: (within structure) _	FACP in b	asement										
Type of occupancy(s) (NFPA & IC	c): Busine	ess, Reside	ntal									
Building owner: Dan Stee	ele											
System Designer: Kevin B	ridgham	, 10 Ma	anciel Di.	Potta	nd	0410						
Installing contractor:			_License No:									
Contractor phone:			_E-mail:									
This is a new application:	YES 🔽	\ NO□										
This is an amendment to an existing	g permit: YES	NO NO	Permit no:	·								
The following documents have been	provided with this	application:										
Floor plans:	YES 🗹	NO□	COST OF WORK: #	8800								
Wiring diagram:	YES 🗌	NO□	PERMIT FEE: # 1	10								
Annunciator details:	YES 🗹	NO 🗆	(\$10 PER \$1,000 + \$3	OFOR THE FIRE	51 \$1,000	2						
Bid specifications:	YES 🗌	NO□										
Equipment data sheets:	YES 🗹	NO□	gu ·	1 1 1 En.V								
Battery & voltage drop calculations	s:YES 🗌	NO□		, 01 0111		· ·						
Sequence of operations:	YES 🗌	NO□										
Designer/ personnel qualifications:	YES 🗌	NO□										
Please submit all of the informati	on outlined on th	e checklist to the	Building Inspections I	Department, 38	9 Cong	ress						
Street, Room 315, Portland, Mai	ne 04101.											
Prior to acceptance of any fire alarm	n system, a compl	ete commissioning	g and acceptance test mu	st be coordinate	ed with a	all						
fire system contractors and the Fire	Department, and	proper documenta	tion of such test(s) provi	ded.								
All installation(s) must comply with NFPA 70, NFPA 72, and Fire Department Technical Standard(s).												
Exact location: (within structure) FACP IN base Ment  Type of occupancy(s) (NFPA & ICC): Building owner: Den Steele  System Designer: Kevin Brisqham 10 Manuel Dr. Rotter 2010  Designer phone: Bemail: Kevin bright am @fforective 2010  Installing contractor: License No:  Contractor phone: E-mail:  This is a new application: YES NO Permit no:  The following documents have been provided with this application:  Floor plans: YES NO PERMIT FEE: 110  Annunciator details: YES NO Side Permit FEE: 110  Sequence of operations: YES NO Battery & voltage drop calculations: YES NO Battery & voltage drop calculations: YES NO Bettery for sonnel qualifications: YES NO Bettery for sonnel qualifications: YES NO Battery for sonnel qualifications: YES NO Bettery for sonnel qualifications: YES NO Better for one complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.												
Applicant signature:	Sulphan		Date: 7-28	-2009								



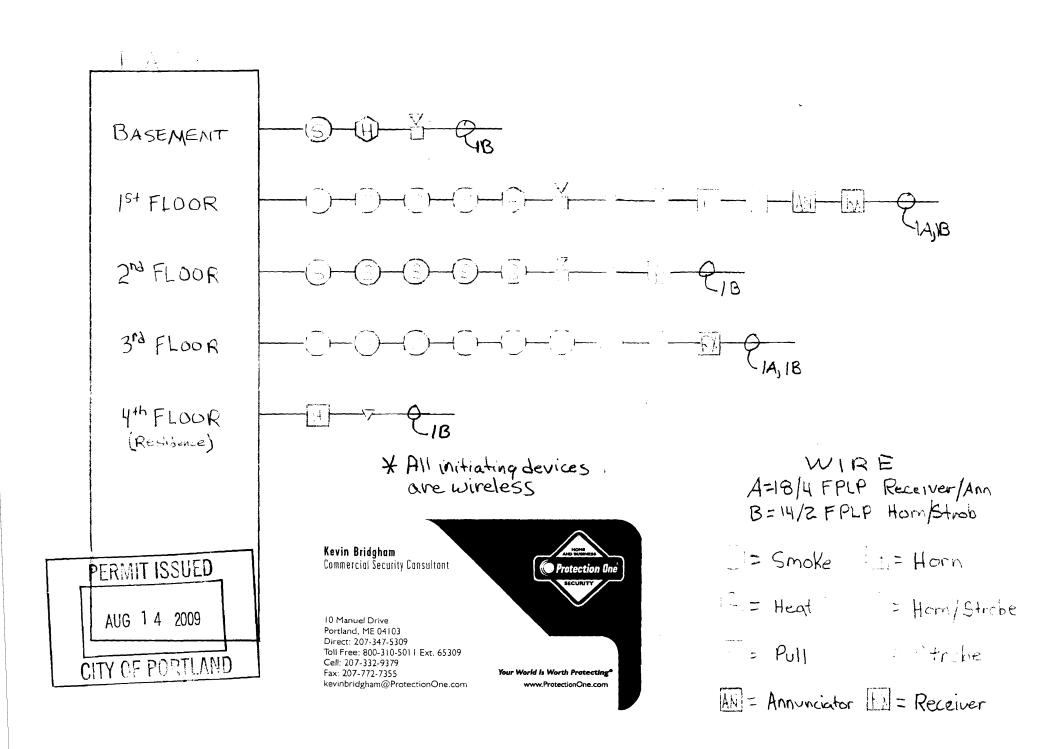
## **Original Receipt**

		-	Au 10	2069
	Received from			
	Location of Work	52 Co.	ita St	
	Cost of Construction	າ \$	Building Fe	e:
	Permit Fr	\$	Site Fee	9:
	, , (	Certi	ficate of Occupancy Fee	;
8/17/09	ditional		Total	:
8/17/09 Awaiting as info from	Ferin.	mbing (I5)	Electrical (I2) S	ite Plan (U2)
into		12		
	Ben		Total Collecte	ed s //0.00
	- K		started until perm	

Taken by: Suglour

WHITE - Applicant's Copy YELLOW - Office Copy PINK - Permit Copy

5% Certain services in



Honeywell Security				1						Battery Contigency
money wen ecounty		Fac	cility Informat	tion				dby and Alarm Tin		Factor
© 2003 Huneywell International Inc. All Rights Reserved	Location:					Thomas .	r war all	Standby (hours):	24	10%
American December 1	Account #: Model:						Alarm Du	ration (minutes):	5	Allen and
(Required to maintain UL Listing)	Engineer:							Recommended		
Commercial Fire Installation	Date:					100			14.2	Yelling
Commercial Burg Installation	Date.		75,45,245,55,4,145	AND				Battery (AH)	Sharply Harby	
	<u> </u>			CEL ECTE	DANEL M	A VIRALINA	OUTDUT	DATINGS		
A SECTION OF SECURITION OF THE SECTION OF THE SECTI		Standby	Alarm	Panel	PANEL M	Bell #1	Bell #2			Max Battery
Select Panel from pulldown list:	Polling Loop (mA)	Auxiliary Power (mA)	Auxiliary Power (mA)	Standby (mA)	Panel Alarm (mA)	Output (mA)	Output (if used; mA)	Maximum Panel Standby Output	Maximum Panel Alarm Output	Supported by Panel
Vista-128FB ▼	128	1000	1700	300	470	1700	1700	Total Standby	2300 Total Alarm	34.4
Calculated Current Draw	0	210	165	Calculate	ed Bell Draw	0	1078		10tal Alarm 1243	
	The Soft of							Standby Budget	Alarm Budget	
Power Budget	128.0	790.0	1535.0	Bell Po	ower Budget	1700.0	622.0	790.0	1057.0	
	Hi wa	4	External	Bell Power	Reg'd (mA):	MANY AND RES	0.0	Ext. UL Pow	ver Req'd (mA):	0.0
		Marie Age					Name of			and the sales
Grayed-out device(s) are not supported	by selecte		1 .7 W.W. +145	18 yr			Year	Company of the state of the sta		
	Enter	How many powered	Standby (aux	Alarm	THE REAL PROPERTY.	Total Polling	Total Standby		Total External	
KEYPADS	Quantity	externally?	pwr)	Current (Aux)	Palling Loop	Loop	Current	Total Alarm Current	Current Required	
****	0		KANININ.		MINIMI		0		0	
	0						0		0	
	0		**********				0		0	
6139/6139R	0		40	100			0		0	
	0						0		0	) = - II.
	0		*****				0		0	
		0	******	HHHH		HHHH	0		0	
6160/6160CR	1	0	45	150		HHHH	45		0	
6160RF	0		50	150	*******	HHHH	0		0	
6160V	0	0		190		THINK IN	0	0	0	
	0	0	HHIIII.	HAIIIII.	IIIIIIII		0	0	0	
Add'l Keypd (Enter # and Currents)	0	0	0	0	MIIIIIIII	MIIIIIII	0	0	0	
										14
2 WIRE & 4 WIRE SMOKE DETECTORS	Enter	How many powered	Standby (aux	Alarm		Total Polling	Total Standby		Total External	
(except Vplex Polling Loop detectors)	Quantity	externally?	pwr)	Current (Aux)	Patting Loop	Loop	Current	Total Alarm Current	Current Required	
2 wire smoke detector (zone powered)	0	MINIMINE.	Two-wire smo	oke detector o	current is built	into the pan	el budgets.	These fields are	nnnnnn 1	
2 wire smoke detector (zone powered)	0						st. The line	below indicates if		
2 wire smoke detector (zone powered)	0				ds panel cap					
2 wire smoke detector (zone powered)	0	*********		antity of 2 W	ire Smoke De	electors OK			mmmili	Several Line
12V 4-wire Smoke ( Qnt'y & Currents) 12V 4-wire Smoke ( Qnt'y & Currents)	0		0	0	HHHHH	HHHH	0		0	
12V 4-wire Smoke (Qnty & Currents)	0		0	0	HHHH	HHHH	0		0	455
12V 4-wire Smoke ( Qnt'y & Currents)	0	0	0	0		HHHH	0		0	
120 4 Wile Smoke   Girly & Caremay			\$43	1112	Million .	minnin		ALC: WHENCH	PEAN THE	
<u>Particular de la la familia de del particular de la familia de la famil</u>			Paggar in	医四角结束 瀬	K41.6					
		How many			i Gregoria	Retit.	Total			
MULTI-POWER DEVICES	Enter Quantity	powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Standby Current	Total Alarm Current	Total External Current Required	
4208U [powered by polling loop]	Quantity		<i>pwi)</i>	Our ent (AUX)		0	Current 0		Current Required 0	Markett in Act
4208U [powered by panel aux power]	0	HHHHH	28	0		0	0		0	
4208U [powered externally]	0		28	0		0	0		0	
4208SN [powered by polling loop]	0		0	0		0	0		0	7 10 10
4208SN [powered by panel aux power]	0		33	0		0	0		0	
4208SN [powered externally]	0		33	0	0.6	0	0		0	
4208SNF [powered by polling loop]	0		0	0			0		0	
4208SNF [powered by panel aux power]	0		40	0			0		0	
4208SNF [powered externally]	0		40	0			0		0	
4208SNF (Class B to A Zone Converter)	0	0	40	0	0	0	0	l ni	^	

4208SNF (Class B to A Zone Converter)

4209U Grouped Zone Mux. Module

4297 Polling Loop Extender Add'l Device (enter guant. & currents) Add'l Device (enter guant. & currents)

0 0

North Control of the Control of the

 0 15.5 0 0 0 0 0

34.4

0.0

AUXILIARY POWERED DEVICES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Politing Loop	Total Polling	Total Standby Current	Total Alarm Current	Total External Current Required
PS24 24 volt Power Supply Module	0	0	50	100	IIIIIIIIIII	WIIIIIII	0	0	0
4100SM (no more than one per system)	0	0	25	0			0	0	0
4204: Enter no. of relays used	0	0	40	0			0	0	0
4204CF:Enter no. of relays used	0	0	80				0	0	0
4285 Voice Module	0	0	160					0	0
4286 with warning speakers	0	0	220	300			0	0	0
5140DLM Backup Dialer Module	1	0	5	15			5	15	0
5800RP wireless repeater module	0	0	100		<i>illillilli</i>		0	0	0
5800TM wireless xmtr module	0	0	20				0	0	0
5881EN receiver	0	0	60				0	0	0
5883 hi-security receiver	2	0	80				160	0	0
7845C Cellular Radio Current Limited?	0	0	400				0	01	0
7845CV2 Cell Radio	0	0	600				0	0	0
7845i Internet Communicator	0	0	110				0	0	0
997 Ceiling Mount PIR LED Active?	0	0	12				0	0	0
998 Wall Mount PIR LED Active?	0	0	13				0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter guant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
FSA-8 fire zone annunciator	0	0	35	65			0	0	0
FSA-24 fire zone annunciator	0	0	35	130			0	0	0
UVS	0	0	75	110			0	0	0
VA8200 Panel Linking Module	0	0	88	0			0	0	0
VA8201 Alpha Pager Module	0	0	165	0			0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0			0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0			0	0	0

POLLING LOOP DEVICES	Enter Quantity	How many powered by 4297?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
4101SN Single Output Relay Module	0	0	IIIIIIIIII	IIIIIIIIIII	7	0	IIIIIIII	ummumi.	HIIIIIIIII
4190SN Two Zone SIM	0	0			2	0			
4190WH	0	0			2	0			
4191SN-WH	0	0			0.5	0			
4192CP	0	0			0.4	0			
4192SD Photoelectric Smoke Det.	0	0	<i>IIIIIIIII</i>		0.4	0			
4192SDT	0	0	IIIIIIIII	IIIIIIII	0.4	0	IIIIIIII		
4193SN Two Zone SIM	0	0	IIIIIIIIII		1.5	0			
4194 Contact	0	0	IIIIIIIII		1	0			
4196	0	0	IIIIIIIIII		1	0			
4209U	0	0	IIIIIIIII		15.5	0			
4275EX Dual PIR LED Active?	0	0			1	0			
4275EX-SN Dual PIR LED Active?	0	0			1	0			
4278EX-SN LED Active?	0	. 0	IIIIIIIII		1	0			
4293SN	0	0	IIIIIIIII		1	0			
4939SN WH/BR/GY Surf Mt. Cntct.	0	0			1	0			
4944SN Recessed Contact	0	0	IIIIIIIII		1	0			
4945SN-WH	0	0	IIIIIIIIII		0.5	0			
4959SN Overhead Door Contact	0	0	IIIIIIIII	IIIIIIII	0.5	0			
5192SD Smoke Detector	0	0	IIIIIIIII		2.8	0	mmm		
5192SDT Smoke Detector with Heat	0	0	<i>IIIIIIII</i>		2.8	0	IIIIIII		
998MX PIR LED Active?	0	0	IIIIIIII		1	0	IIIIIIII		
FG-1625SN Glass Break Detector	0	0	illillilli.	HIIIII	1	0	MININ		<i>HIIIIIIII</i>
Quest2260SN	0	0	HIIIIII	HIIIIII	6	0	THIIIII		
Vistakey	0	0	HIIIIII	HIIIIII	2	0	HIIIII		
Add'l VPlex (enter qnt'y & current)	0	0	MINIM	HHHH	0	0	mm		Million III
Add'l Vplex (enter gnt'y & current)	0	0	HIIIII	HIHIII	0	0	IIIIIIII	THE PROPERTY OF THE PARTY OF TH	THIIIIIIIII

12V NOTIFICATION DEVICES ON BELL OUTPUT #1	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Sounder Current from Panel Bell #1	Total Sounder Current (external)
Enter device name, quant., & current	0	0	IIIIIIIII.	0	IIIIIIIII	THININE	IIIIIIII	0	0
Enter device name, quant., & current	0	0		0			mmm	0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0			HHHH	0	0
Enter device name, quant., & current	0	0		0			HHHHH	0	0

12V NOTIFICATION DEVICES ON BELL OUTPUT #2 (IF USED)	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Palling Loop	Total Polling Loop	Total Standby Current	Total Sounder Current from Panel Bell #2	Total Sounder Current (external)
Gentex Horn Strobe Multi-Candela	6	0	IIIIIIIII	135	IIIIIIIIII	HIIIIIII.	HIIIIIII.	810	0
Gentex Horn	1	Ö		29		HHHH		29	0
Gentex Strobe	2	0		106		THINK I	<i>THINIT</i>	212	0
Sync Module	1	0		27				27	0
Enter device name, quant., & current	0	0		0			<i>THINI</i>	0	0

12V AUX POWER AND BELL CIRCUIT WIRE RUN DATA	Units			Ohms per 1000 ft	100	7.	13335	urrer 'mA)	Run Lengt		Actual Resistance (twin leads)	Voltage At EOL	Voltage Drop (Percent)
Panel Aux Power Wire Run (twin lead)	Feet	•	<select gauge="" wire="">  ▼</select>	0.00			1	3	3	0	0.00	12.00	0.00
Panel Bell 1 Wire Run (twin lead)	Feet	~	#14 AWG Solid	3.19				90	3	0	0.00	12.00	0.00
Panel Bell 2 Wire Run (twin lead)	Feet	~	#14 AWG Solid	3.19				<i>1972</i>		0	0.00	12.00	0.00

### **PS24 Power Supply**

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Standby/Alarm Durations (from top)

Battery Standby (hours):
Alarm Duration (minutes):
Required Capacity (AH) 1.0

1.059

Use TWO Identical batteries w/ this AH capacity

7.0

		,	PS2	4 POWER	SUPPLY MO	ODULE, N	AXIMUM	CAPACITIES	374 2	
	Panel 12V Standby (mA)	Panel 12V Alarm (mA)	Output A Standby (mA)	Output A Alarm (mA)	Output B Standby (mA)	Output B Alarm (mA)	PS24 PC Board (mA)	Maximum Total Standby Output	Maximum Total Alarm Output	Max. Battery Capacity
Using PS24 to back up Control Panel	1/////////	///////////	570	1700	570	1700	40	610	4180	34.4
		46.51.61.44	V	355,004				Total Standby	Total Alarm	
Equivalent panel load @ 24V	0.0	0.0	0	0	0	0	40	40	40	
(converted to 12VDC from 24V full-wave)	144 N. 144	124 44 24 4	TE BUDDAY!					Standby Budget	Alarm Budget	
Power Budget	510.0	1713.0	570.0	1700.0	570.0	1700.0	mmm.	570.0	4140.0	34.4

24V NOTIFICATION APPLIANCES Enter Device Names & Specifications	Enter Quantity	Which PS24 Output?	Device Standby Load (MA)	Device Alarm Load (MA)		Subtotal A Standby	Subtotal A Alarm	Subtotal B Standby	Subtotal B Alarm
24V Notification Appliance	0	Output A	0	0	IIIIII.		0	0	
24V Notification Appliance	0	Output A	0	0			0	0	
24V Notification Appliance	0	Output A	0	0			0	0	
24V Notification Appliance	0	Output A	0	0			0	0	(
24V Notification Appliance	0	Output A	0	0		<u></u>	0	0	(
24V Notification Appliance		Output A	0	0			0	0	
24V Notification Appliance		Output A	0	0			0	0	
24V Notification Appliance	0	Output A	0	0		<u> </u>	0	0	
24V Notification Appliance	0	Output A	0	0		<u> </u>	0	0	
24V Notification Appliance	0	Output A	0	0		<u> </u>	0	0	
24V Notification Appliance	0	Output A	0	0		<u> </u>	0	0	(
24V Notification Appliance	0	Output A 🔻	0	0		<u> </u>	0	0	(
24V Notification Appliance	0	Output A	0	0		<u> </u>	0	0	
24V Notification Appliance	0	Output A	0	0			0	0	(
24V Notification Appliance	0	Output A	0	0			0	0	(
24V Notification Appliance	0	Output A	0	0			0	0	(

24V BELL CIRCUIT WIRE RUN DATA	Uni	ts	Wire Gauge(AWG)	Ohms per 1000 ft	Curr	al Alarm ant Draw (mA)	and the second of the second o	Actual Resistance (twin leads)	Voitage At EOL	Voltage Drop (Percent)
PS24 Output A Wire Run (twin lead)	Feet	•	<select gauge="" wire=""></select>	0.00		11/8/06	0	0.00	24.00	0.00
PS24 Output B Wire Run (twin lead)	Feet	_	<select gauge="" wire=""></select>	0.00		11/8/96	0	0.00	24.00	0.00



## GE3-12 Series 12 V Strobes and Horn Strobes



- · Silence the horn while strobes flash
- Use the SuperSlide feature for easy testing
- ► Wide voltage range; 8 VDC to 17.5 VDC
- Many candela choices
- Select high or low frequency, high or low volume, and temporal Code 3 or continuous tone pattern
- Rugged die-cast metal mounting plate

The Gentex Commander<sup>3</sup> Series Low-profile Strobes (GES3-12) and Horn Strobe (GEC3-12) combinations offer dependable alarms, a low current draw, and a minimum flash rate of 1 Hz regardless of input voltage.

#### **Functions**

#### Easy Installation and Testing

The user can wire then install the entire system, reducing installation and operating costs. Use the SuperSlide feature to test supervision.

#### **Horn Output**

The horns provide a selection of high or low volume. The user can also select either Continuous or Temporal (Code 3) tone output, and synchronize the temporal signals by using the AVS Series Synchronization Modules.

#### **Strobe Output**

Select from 15 cd, 30 cd, 60 cd, or 75 cd while in the field using a sliding switch. The horn strobe appliance with the AVS-44, AVSM, or a compatible control panel can silence the audible signal while leaving the visible signal energized with the use of a single pair of power wires.

#### Certifications and Approvals

Gentex Corporation holds these Listings and Approvals:

Listings and Approvals: c-UL-us: Dual-Listed 464, 1971, 1638

CCEM

CSFM: 7135-0569: 122

City of Chicago Bureau of Fire Protection NYC/BSA and MEA: (285-91-E, Vol. XV)

**Factory Mutual Research** 

Complies with:

Americans with Disabilities Act (ADA 4.28.3)

National Fire Protection Association (NFPA 72)

#### Installation/Configuration Notes

#### **Compatible Products**

The following products are compatible with the GE3-12 Series 12 V Strobes and Horn Strobes:

Category	Product ID	Product Description
Control Panels	to the second section of the second second second second	all Bosch G Series, 6000 Series, 2000 Series, DS7400XiV4, DS7080iP-32, DS7200 Series, and Control Panels <sup>1</sup>
	D70222	Conventional FACP
Modules	AVS-44	Synchronization module (red)
	ΔVS44-W	Synchronization module (white)

#### 2 | GE3-12 Series 12 V Strobes and Horn Strobes

AVSM-R Synchronization module (red)
AVSM-W Synchronization module (white)

<sup>1</sup> For synchronization, use the AVS44 or AVSM Synchronization Modules with these control panels.

<sup>2</sup> The D7022 must be set for 12 VDC operation and requires the AVS44 or AVSM Synchronization Modules for synchronization.

#### **Mounting Considerations**

Note Use the GE3-12 series for indoor installations only.

These strobes and horn strobe combinations are equipped with a four-inch square metal mounting plate that can be attached as follows:

	Conduit Applications	Surface Mounted	Semi Flush Mounted
Single-gang	•		•
Double-gang	•	•	•
Four-inch square	•	•	•
GSB	•	•	

Also included is a locking mechanism that secures the product to the bracket without any screws showing.

#### Shipping Information

The GEC3-12 horn strobe models are delivered from the factory set to the temporal lower frequency mode.

#### Wiring

Note Do not use these units in coded or pulsed signaling circuits.

The input terminals accept wires with diameters between 18 AWG (1.2 mm) and 12 AWG (2.3 mm).

#### Parts Included

Quant.	Component
1	Strobe or horn strobe with finish plate
1	Die-cast mounting plate
1	Plastic test card
1	Hardware pack
1	Literature pack

#### Technical Specifications

#### Alarm Ratings

#### Horn (Continuous, 2400 Hz)

Audible Device Current (maximum): 29 mA RMS

Sound Output (maximum range) 79 dBA to 84 dBA at 10 ft (3 m):

.. ......

Horn (Continuous, Mechanical)

Audible Device Current (maximum): 26 mA RMS

Sound Output (maximum range) 79 dBA to 83 dBA at 10 ft (3 m):

Horn (Temporal Code 3, 2400 Hz)

Audible Device Current (maximum): 29 mA RMS

Sound Output (maximum range) 76 dBA to 81 dBA at 10 ft (3 m):

Horn (Temporal Code 3, Mechanical)

Audible Device Current (maximum): 26 mA RMS

Sound Output (maximum range) 75 dBA to 80 dBA at 10 ft (3 m):

Chime (Continuous)

Audible Device Current (maximum): 13 mA RMS

Sound Output (maximum range) 64 dBA\* to 65 dBA\* at 10 ft (3 m):

Chime (Temporal Code 3)

Audible Device Current (maximum): 13 mA RMS
Sound Output (maximum range) 63 dBA\* to 64 dBA\*

at 10 ft (3 m):

Whoop
Audible Device Current (maximum): 55 mA RMS
Sound Output (maximum range) 77 dBA to 80 dBA

at 10 ft (3 m):

\* If you operate the horn in this mode at this voltage, it does not meet the UL reverberant sound level required for public mode fire protection service. These settings are acceptable only for private mode fire alarm use. Use the high output setting for public mode application.

Note

The sound output for the temporal (Code 3) tone is rated lower because the time the horn is off is averaged into the sound output rating. When the horn is producing a tone in the Temporal mode its sound pressure is the same as the Continuous mode.

#### **Environmental Considerations**

Relative Humidity Up to 93% non-condensing

Temperature (Operating): +32°F to +120°F (0°C to +49°C)

Mechanical Properties

Dimensions (H x W x D): 5.0 in. x 4.5 in. x 2.5 in.

(12.7 cm x 11.4 cm x 6.4 cm)

#### Power Requirements

Voltage Range:

8 to 17.5 VDC or FWR

Voltage (Input):

12 VDC or FWR nominal

#### Strobe Current Ratings (maximum)

15 cd:

163 mA RMS

30 cd:

212 mA RMS

60 cd:

331 mA RMS

75 cd:

436 mA RMS

#### Trademarks

SuperSlide™ is a trademark of the Gentex Corporation, USA.

#### Ordering Information

GEC3-12WR 12-VDC Horn Strobe Unit

GEC3-12WR

GEC3-12WW 12-VDC Horn Strobe Unit

GEC3-12WW

GES3-12WR 12-VDC Strobe Unit

GES3-12WR

GES3-12WW 12-VDC Strobe Unit

GES3-12WW

#### Hardware Accessories

AVS-44 Synchronization Control Module (red) Synchronization Control Module primarily for use

AVS-44

with the Gentex HS24 Series and ST24 Series notification appliances.

AVS44-W Synchronization Control Module (white) AVS44-W Synchronization Control Module primarily for use with the Gentex HS24 Series and ST24 Series

notification appliances.

AVSM-R Synchronization Control Module (red) Synchronization module for use with all Gentex synchronizable notification appliances except the HS24 Series and the ST24 Series.

AVSM-R

AVSM-W Synchronization Control Module (white) Synchronization module for use with all Gentex synchronizable notification appliances except the HS24 Series and the ST24 Series.

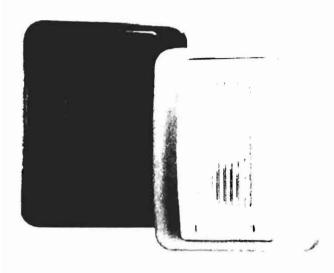
AVSM-W

GSB Surface Back Box (red)

GSB



## **GEH12 Series Low-frequency Horns**



- Evacuation tone
- Use the SuperSlide feature for easy testing
- Wide voltage range; 8 VDC to 17.5 VDC
- Select high or low frequency, high or low volume, and Temporal Code 3 or Continuous tone pattern
- Wire then install the entire system
- Rugged die-cast metal mounting plate

The Gentex GEH12 Series Low-frequency Horns offer a dependable audible alarm and a low current draw.

#### **Functions**

#### Easy Installation and Testing

The user can wire then install the entire system, reducing installation and operating costs. Use the SuperSlide™ feature to test supervision.

#### **Horn Output**

The horns provide a selection of high or low volumes with a peak sound of 100 dBA or greater at 10 ft (3 m). The series offers a choice between a 2400 Hz (remote signaling) tone or a broadband low frequency (1500 Hz to 3000 Hz) mechanical sounding (evacuation) tone where closed doors could be a problem. The user can also select either continuous or temporal Code 3 tone output, and synchronize the temporal signals by using the AVS Series Synchronization Modules or a compatible control panel.

#### Certifications and Approvals

Gentex Corporation holds these Listings and Approvals:

Listings and c-UL-Approvals:

c-UL-us: Dual-Listed 464, 1971, 1638

CSFM: 7135-0569: 122

City of Chicago Bureau of Fire Protection NYC/BSA and MEA (285-91-E: Vol. XV

Factory Mutual Research

Complies with:

Americans with Disabilities Act (ADA 4.28.3)

National Fire Protection Association (NFPA 72)

#### Installation/Configuration Notes

#### Compatible Products

The following products are compatible with the GEH12 Series Horns:

Category	Productio	Product Description
Control Panels		Bosch G Series, 6000 Series, 2000 Series, 400XiV4, DS7080iP-32, DS7200 Series, and trol Panels <sup>1</sup>
	D7022 <sup>2</sup>	Conventional FACP
Modules	AVS-44	Synchronization module (red)
	AVS44-W	Synchronization module (white)
	AVSM-R	Synchronization module (red)
	AVSM-W	Synchronization module (white)

<sup>&</sup>lt;sup>1</sup> For synchronization, use the AVS44 or AVSM Synchronization Modules with these control panels.

<sup>2</sup> The D7022 must be set for 12 VDC operation and requires the AVS44 or AVSM Synchronization Modules for synchronization.

#### **Mounting Considerations**

#### **Outdoor Applications**

For an outdoor application or a severe environment (NEMA 3R) application, the GEH12 Series Horns must be surface mounted on a flat wall in a GOE Outdoor Enclosure. Use a watertight conduit fitting.

#### **Indoor Applications**

Install the horns with their tops at least 90 in. (2.3 m) above the floor and no closer than 6 in. (15.2 cm) to the ceiling. The horns are equipped with a four-inch square mounting plate that can be attached as follows:

	Conduit Applications	Surface Mounted	Semi Flush Mounted
Single-gang	•		•
Double-gang	•	•	•
Four-inch square	•	•	•
GSB	•	•	

#### Shipping Information

The horns are delivered from the factory set to the temporal lower frequency mode. Also included is a locking mechanism that secures the product to the bracket without any screws showing.

#### Wiring

The input terminals accept wires with diameters between 18 AWG (1.2 mm) and 12 AWG (2.3 mm).

#### Parts Included

Quant.	Component
1	Horn with finish plate
1	Die-cast mounting plate
1	Plastic test card
1	Hardware pack
1	Literature pack

#### **Technical Specifications**

#### Alarm Ratings

#### Horn (Continuous, 2400 Hz)

Audible Device Current (maximum):

117.

29 mA RMS High output: 78 dBA

:

Sound output at 10 ft (3 m) at 12 VDC:

Low output: 73 dBA

#### Horn (Continuous, Mechanical)

Audible Device Current (maximum):

26 mA RMS

High output: 81 dBA

Sound output at 10 ft (3 m) at 12 VDC:

Low output: 75 dBA

#### Horn (Temporal Code 3, 2400 Hz)

Audible Device Current (maximum):

29 mA RMS

Sound output at 10 ft (3 m) at 12 VDC:

High output: 78 dBA Low output: 73 dBA

#### Horn (Temporal Code 3, Mechanical)

Audible Device Current (maximum):

26 mA RMS

Sound output at 10 ft (3 m) at 12 VDC:

High output: 78 dBA Low output: 72 dBA\*

#### Chime (Continuous)

Audible Device Current (maximum): Sound output at 10 ft (3 m) at 12 VDC: 13 mA RMS

High output: 64 dBA\*

Chime (Temporal Code 3)

Audible Device Current (maximum): Sound output at 10 ft (3 m) at 12 VDC: 13 mA RMS

High output: 63 dBA\*

Low output: 63 dBA\*

Low output: 62 dBA\*

#### Whoop

Audible Device Current (maximum): Sound output at 10 ft (3 m) at 12 VDC: 55 mA RMS

High output: 79 dBA Low output: 74 dBA\*

\* If you operate the horn in this mode at this voltage, it does not meet the UL reverberant sound level required for public mode fire protection service. These settings are acceptable only for private mode fire alarm use. Use the high output setting for public mode application.

#### Note

The sound output for the temporal (Code 3) tone is rated lower because the time the horn is off is averaged into the sound output rating. When the horn is producing a tone in the Temporal mode, its sound pressure is the same as the Continuous mode.

#### Mechanical Properties

Dimensions (HxWxD):

5.0 in. x 4.5 in. x 2.5 in. (12.7 cm x 11.4 cm x 6.4 cm)

#### **Environmental Considerations**

Relative Humidity

Up to 93% non-condensing

Temperature (Operating):

+32°F to +120°F (0°C to +49°C)

#### **Power Requirements**

Voltage Range:

8 VDC to 17.5 VDC

Voltage (Input):

12 VDC nominal

**Trademarks** 

SuperSlide™ is a trademark of the Gentex Corporation, USA.

#### **Ordering Information**

GEH12WR 12 VDC Horn (red)

GEH12WR

GEH12WW 12 VDC Horn (white)

GEH12WW

#### Hardware Accessories

AVS-44 Synchronization Control Module (red) AVS-44 Synchronization Control Module primarily for use with the Gentex HS24 Series and ST24 Series notification appliances.

AVS44-W Synchronization Control Module (white) AVS44-W Synchronization Control Module primarily for use with the Gentex HS24 Series and ST24 Series notification appliances.

AVSM-R Synchronization Control Module (red)
Synchronization module for use with all Gentex
synchronizable notification appliances except
the HS24 Series and the ST24 Series.

AVSM-W Synchronization Control Module (white)
Synchronization module for use with all Gentex
synchronizable notification appliances except
the HS24 Series and the ST24 Series.

A Smarter Vision™

### **AVS GANGABLE SYNCHRONIZATION CONTROL MODULE**

#### **Applications**

The Gentex AVSM and AVS44 control modules are designed to provide an easy way to synchronize multiple horns as well as strobe light flashes using only two wires in instances where a synchronized flash is required.

When the module is in temporal 3 mode, it has the capability to synchronize multiple horn signals and the ability to silence the horn while allowing the strobes to continue to flash. In unison mode, the horn cannot be silenced while maintaining strobe operation.

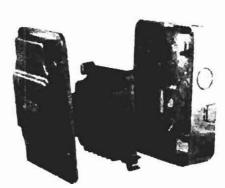
By incorporating the control module as shown in the following diagrams on pages 2-4, the control module will control the power to the horns to produce the synchronized operation. The AVSM and AVS44 Control Modules are warranted for three years from date of purchase.

#### Standard Features

- · Synchronize Horn and Strobe With the Use of Only Two Wires
- · Easy to Install
- . Module is Rated for 3 Amps Continuous Current and 5 Amps Surge or Inrush Current
- Synchronizes to 1Hz Flash Rate
- Operates 1 Class 'A' Circuit or 2 Class 'B' Circuits at 3 Amps per Circuit.
- · Dual Synchronization Module Only When Using the 2 Class 'B' Circuits.
- · A Green LED Status Indicator to Signal Operation of Module.
- · Option to Silence the Horn While Strobes Continue to Flash When Using Temporal 3 Mode.

- AVSM Operates the GCS/GCC, GCSR/GCCR, GES3-24/GEC3-24, GES3-12/GEC3-12, GEC/GES/GEH, GESR/GECR, SSPK Series and GX93 Series.
- The AVSM WILL NOT Operate the ST/HS Series. The AVS44 MUST BE used.
- The AVS44 MUST BE Used When the ST/HS Series is on a Circuit.
- The AVS44 WILL NOT Operate the GES3-12/GEC3-12 Series. The AVSM MUST BE used.
- Three Year Warranty From Date of Purchase.

## AVSMODULE SERIES



**AVSM & AVS44 CONTROL MODULE** 

**Product Listings** 



roduci's nameplata monte il 4. ETERS LABORATORIES, INC

- BFP (City of Chicago)
- BS+A/MEA 285-91-E Vol.XII (AVS44) 285-91-E Vol.XVIII (AVSM)
- CSFM: 7300-0569:121 (AVS44) 7125-0569:123 (AVSM)
- UL 464 and UL 1971 Listed
- CAN/ULC S526-M87/S524-01 Compliant



#### **Available Models**

Model Number	Part Number	Model Number	Part Number
AVSM-R	904-1243-002	AVS44-R	904-1255-002
AVSM-W	904-1244-002	AVS44-W	904-1256-002

AVS Series Product Current Draw				
Product	AVS44	J AVSM		
12 VDC	N/A	27mA		
12VDC UL Max <sup>1</sup>	N/A	31mA		
24VDC	37mA	37mA		
24 VDC UL Max1	45mA	45mA		

<sup>1</sup> RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33VDC for 24VDC units) (8-17VDC for 12VDC units). For strobes the UL max current is usually at the minimum listed voltage (16VDC for 24VDC units) (8VDC for 12VDC units). For audibles the max current is usually at the maximum listed voltage. For unfiltered FWR ratings, see installation manual.

#### Notes:

- The AVS Modules come with own back box and cover plate.
- **Dimensions of Module:** 3.85"H x 3.82"W x 1.32"D **Dimensions of Box:** 5.57"H x 4.55"W x 2.39"D
- A green LED status indicator will flash once every four seconds if zone 1 is operational. The LED will flash twice every four seconds if zones 1 and 2 are operational.

Diagram 1
Wiring for One Class B Circuit with Strobe/Horn Operating in Unison

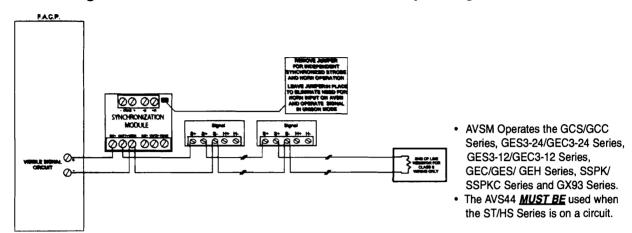


Diagram 2
Wiring for Two Class B Circuits with Strobe/Horn Operating in Unison

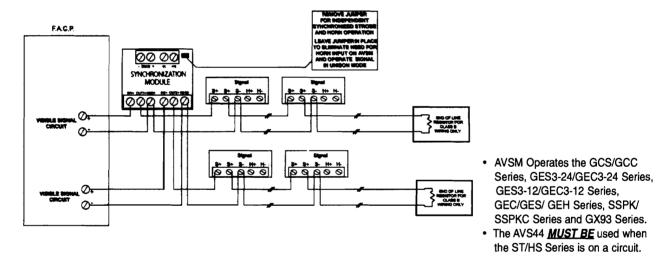


Diagram 3
Wiring for One Class B Circuit with Strobe/Horn Operating Independently

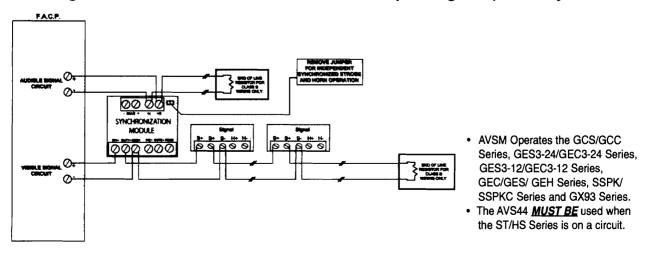


Diagram 4
Wiring for One Class A Circuit with Strobe/Horn Operating in Unison

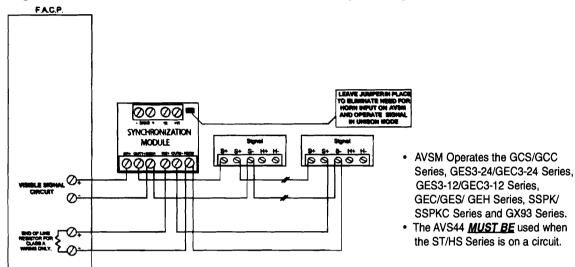


Diagram 5
Wiring for One Class A Circuit with Strobe/Horn Operating Independently

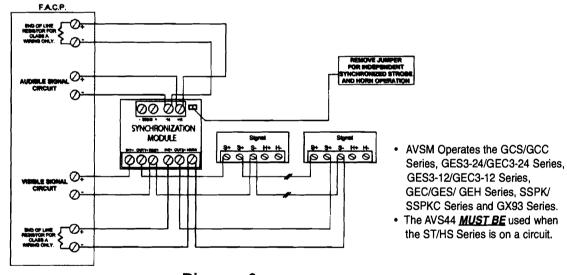
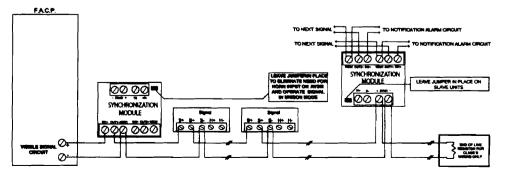
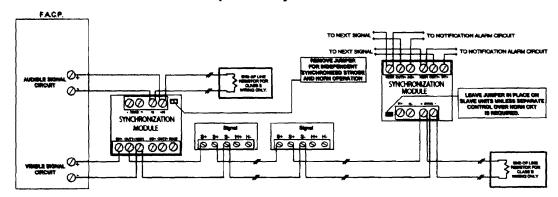


Diagram 6a
Wiring for One Class B Circuit with Strobe/Horn Operating
in Unison and Use of Slave Module



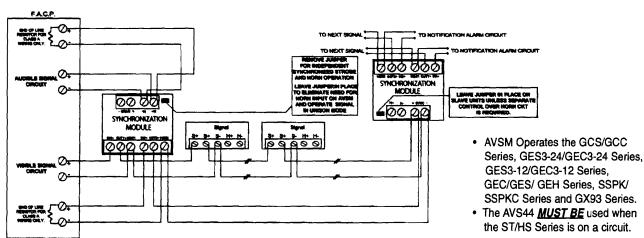
- AVSM Operates the GCS/GCC Series, GES3-24/GEC3-24 Series, GES3-12/GEC3-12 Series, GEC/GES/ GEH Series, SSPK/ SSPKC Series and GX93 Series.
- The AVS44 <u>MUST BE</u> used when the ST/HS Series is on a circuit.

## Diagram 6b Wiring for One Class B Circuit with Strobe/Horn Operating Independently and Use of Slave Module



- AVSM Operates the GCS/GCC Series, GES3-24/GEC3-24 Series, GES3-12/GEC3-12 Series, GEC/GES/ GEH Series, SSPK/ SSPKC Series and GX93 Series.
- The AVS44 <u>MUST BE</u> used when the ST/HS Series is on a circuit.

Diagram 7
Wiring for One Class A Circuit with Strobe/Horn Operating Independently and Use of a Slave Module



Note: When using the Commander 2, 3 & 4 Series incoming positive power lead must be broken and each lead is to be inserted into each of the top two terminals. If two power runs are made to the signal, one for the strobe and one for the horn, only one of the runs must have its positive lead broken and placed under the two separate top terminals. A barrier is provided to prevent both leads from being placed under the same terminal.

NOTE: The AVS Modules are listed per UL 1971/Signaling Appliances for the Hearing Impaired with a voltage range of 8-33 VDC/fwr and CAN/ULC S526-M87, Visual Signaling Appliances, with a voltage range of 10 VDC/fwr to 30 VDC/fwr - 20% +10%. It is for indoor use only, with a temperature range of 0°C - 49°C (32°F - 120°F) and a maximum humidity of 93%RH.

CAUTION: The AVS Modules are to be connected only to circuits that provide continuously applied voltage. Do not use this module on coded or interrupted circuits in which the voltage is cycled on and off.

## GENTEX

Fire Protection Products: www.gentex.com 10985 Chicago Drive Box 310 • Zeeland, Michigan 49464 616.392.7195 • 1.800.436.8391 • 616.392.4219 Fax

Gentex corporation reserves the right to make changes to the product data sheets at their discretion

#### Important Notice

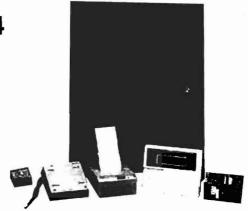
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ses only, are 551-0031-01

### Honeywell

### VISTA-128FB/V128FB-24

COMMERCIAL FIRE AND PARTITIONED ALARM PLATFORM



Designed to integrate seamlessly with CCTV, access control and Honeywell's full range of fire and burglary components, the VISTA-128FB provides the ultimate protection of life and property. The UL listed Commercial Fire and Burglary Control Platform controls up to eight partitions and supports up to 128 zones/points using hardwired, wireless and addressable V-Plex technologies.

A diverse line of Honeywell initiating devices, notification circuits, digital dialers, keypads, RF receivers and relays support this extremely powerful control platform.

The VISTA-128FB has been designed to mount quickly and easily in an attack resistant cabinet and is available in 12V and 24V models.

#### **FEATURES**

- Supports addressable V-Plex access control points using VistaKey (1 to 8 doors)
- Supports up to 15 doors of access control using Vista Gateway Module (VGM)\*
- Supports CCTV applications with the new VistaView-100 CCTV switcher module
- Identifies the point or zone of a fire or alarm, using the new FSA-8/ FSA-24 Fire system annunciator

- Stores up to 512 events and can accommodate 150 user codes
- New E2 software simplifies programming
- Easily programmed and maintained with newly upgraded Compass Downloader software
- Eight hardwired zones standard, expandableto 120 V-Plex addressable points/zones or 128 wireless points/zones

- Can control eight separate areas independently (8 partitions)
- Two on-board notification (bell) circuits delivering 2.3A @ 12V or 3.4 amp @ 24V
- Automatic smoke detector sensitivity maintenance testing
- \* Connects to Honeywell's Passpoint Access Control Systems. Maximum 32 doors.

#### VISTA-128FB/V128FB-24

COMMERCIAL FIRE AND PARTITIONED ALARM PLATFORM

#### **SPECIFICATIONS:**

#### Cabinet dimensions

- 18"H X 14.5"W X 4.3"D

#### Environmental

- Storage temp: -14°F to 158°F (-10°C to 70°C)
- Operating temp: -32°F to 122°F (0°C to 50°C)
- Humidity: 85% RH

#### • EMI

Meets or exceeds the following requirements:

- FCC Part 15, Class B Device
- FCC Part 68
- IEC EMC Directive

#### Agency Listings Burglary

- UL609 Grade A Local Mercantile Premises and
- Mercantile Safe and Vault
- UL611/1610 Grades A, AA, Central Station
- UL365 Grades A, AA Police Connect

#### • Fire

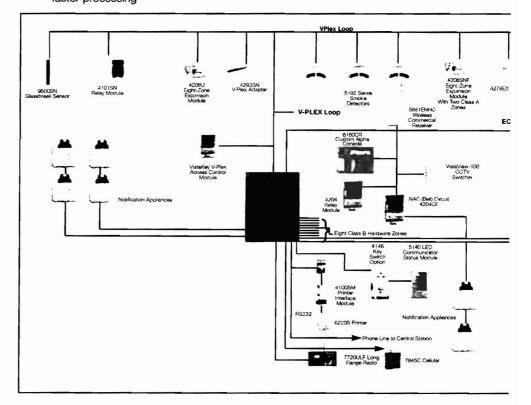
- UL864 FPA72 Local, Central Station and Remote Station
- Factory Mutual
- California State Fire Marshal
- MEA
- UL985

#### Additional Features

- Notification Appliance Circuits (two)
  - Programmable
  - Temporal code compliant
  - Individually silenceable
- Programmable on-board auxiliary relay
  - SIA false alarm reduction features:
  - Exit Error Logic
  - Exit Delay Reset
  - Cross Zoning
  - Call Waiting Defeat
  - Recent Close Report

- Supports commercial hardwired, addressable V-Plex polling loop and wireless zones
- Hardwired zones:
  - Provides nine style B hardwired zones
  - EOLR supervised for Fire and UL burglary installations
  - Supports N.O or N.C. sensors
  - Individually assignable to one or all eight partitions
  - Up to 16 two-wire smoke detectors each zone 1 and 2 (32 total)
  - Up to 50 two-wire glass break detectors on zone eight
- Patented addressable V-Plex polling loopV-Plex technology:
  - Supports up to 120 two-wire zones/points
  - Global polling technology for faster processing

- Increased current draw capacit (128mA)
- Supervised by panel
- Individually assignable to partitions, notification circuit (bell) output or aux relay
- 4,000 ft capability without the use of shielded cable
- Extender/Isolation bus module
- Two-wire smoke detector zone/group expansion module adds two or four zones
- Eight zone Class A and B Extender Module
- One zone supervised Contact Monitor Module
- UL Listed wireless expansion
  - Supports up to 128 wireless zones using 5881 Receiver
  - Supervised by control for checkin signals



### Honeywell

#### VISTA-128FB/V128FB-24

COMMERCIAL FIRE AND PARTITIONED ALARM PLATFORM

#### **SPECIFICATIONS:**

- Tamper protection for transmitter
- Individually assignable up to eight partitions
- Supports UL864 FPA approved wireless smoke\ndetectors
- Access control integration
  - Full integration with PassPoint
  - Access Control System Complete Gateway in access functions
- Event reporting
- Local printer of access or VISTA related event
- Scheduled uploading of events to central station
- Stored events for one call retrieval
- Communication
  - Phone mapping by zone response type
  - Supports VIP Interactive Phone

- Voice Module
- Panel operation during download
- Uploading equipment list to central station
- Communication to PassPoint via Vista Gateway Module (VGM)

#### Applications

Supported by a diverse line of Honeywell initiating devices, the powerful VISTA-128FB is the ideal integrated fire and burglary control for applications where a higher level of security is necessary including medical and professional buildings, supermarkets, churches and synagogues, office buildings, schools, universities, strip malls, larger residences and factory or warehouse environments.

#### Installation

The VISTA-128FB alarm system has been designed to mount both quickly and easily in an attack resistant cabinet. It meets all applicable requirements for UL commercial burglary installations.

#### • Electrical:

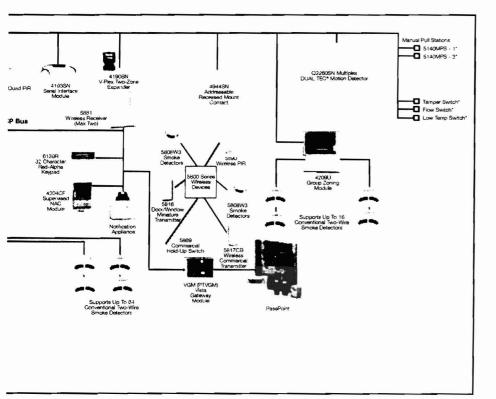
- Primary power:
  - 18 VAC@ 72 VA No. 1450
  - Quiescent current draw:
  - 350mA
- Backup battery
  - 12VDC, 12AH min to 34AAH max
  - Lead acid battery (gel type)
- Alarm power
  - 12VDC, 1.7A max for each notification (bell) circuit output
- Aux. standby power
  - 12VDC, 1A max
- Total power
  - 2.3A at 12VDC, 3.4A at 24VDC from all sources
- Standby time
  - 24 hours with 1A standby load or 60 hours with 205mA max standby load using 34AAH battery
- Fusing
  - Battery input, aux. and notification (bell) circuit outputs are protected using PTC circuit protectors. All outputs are power limited.
- Main dialer
  - Line seize:
  - Double Pole

#### • Ringer equiv.

- 0.713

#### Formats

 ADEMCO Low Speed, ADEMCO 4+2 Express, ADEMCO High Speed, ADEMCO Contact ID, Sescoa and Radionics



#### VISTA-128FB/V128FB-24

#### COMMERCIAL FIRE AND PARTITIONED ALARM PLATFORM

#### **SPECIFICATIONS:**

#### Auxiliary devices

- 6160CR Alpha Keypad Commercial Fire
- 6139R Red Alpha Keypad/Annunciator
- FSA-8 & FSA-24 Fire System Annunciator
- 4204 Relay Module, four form C contacts
- 4204CF Two supervised output circuits
- 6220S System printer used with 4100SM Serial Interface Module
- 5140DLM, FSA-8, FSA-24, FSAKSM Fire Annunciator

#### Two-wire and four-wire smoke detectors conventional

- System Sensor smoke detectors

#### • Horn/Strobes

- System Sensor notification appliances

#### Manual pull stations

- 5140MPS-1
- 5140MPS-2

#### • V-Plex (addressable) devices

- 4101SN Single Relay/Zone Module
- 4190SN Remote Point Module two zones
- 4190WH Two Point Multiplex RPM
- 4193SN Two Zone Serial Interface Module
- 4208U Loop Expansion Module eight zones
- 4208SNF Class A/13 Expander Module

- 4209U Group Zoning Module two/four zones
- 4293SN One Zone Serial Interface Module
- 4297 Isolation/Extender Module

#### V-Plex (addressable) smoke detectors

- 5192SD
- 5192SDT

#### Passive infrared detectors

- 998MX
- 4275EX-SN
- 4278EX-SN
- Quest 2260SN

#### • V-Plex (addressable) contacts

- 4939SN-WH
- 4944SN-WH
- 4959SN

#### Glassbreak detectors

- 9500SN

#### VISTA Interactive Phone Module

- 4286 Voice Module

#### Optional 24V power supply

- PS24 - 24V power supply - 3.4A

#### Long range radio

 Long range radio 7720ULF-XX, 7845C, 7835CFPK

#### Upgraded software

 Upgraded Compass Downloader Windows compatible

#### Wireless devices

- 5804 Wireless Key
- 5804BD Bi-Directional Key
- 5804BDV Bi-Directional with voice
- 5816 Door/Window Transmitter
- 5819 Shock Sensor
- 5827BD Bi-Directional Keypad
- 5849 Glassbreak Detector
- 5881 Series RF Receiver supporting 5800 wireless detectors
- 5890 PIR

#### Access control

- VistaKey V-Plex (addressable)
   Access Control
- VistaKey-SK Starter Kit
- VistaKey-EX Expansion Kit
- VGM Vista Gateway Module to PassPoint Access Control (Honeywell Access Systems)

#### CCTV

 VistaView-100-CCTV Switch Module

#### • Commercial wireless devices

- 5869 Hold up Transmitter
- 5817CB Wireless Commercial Transmitter
- 5881ENHC Commercial

Fire/Burg Receiver

- 5808W3 Wireless Smoke Detector
- 5809 Wireless Heat Detector

#### **ORDERING**

VISTA-128FB Commercial Fire and Partitioned Burglary Alarm Platform 12V Model
V128FB-24 Commercial Fire and Partitioned Burglary Alarm Platform 24V Model

#### **Honeywell Security & Custom Electronics**

Honeywell 2 Corporate Center Dr. Suite 100 P.O. Box 9040 Melville, NY 11747 www.honeywell.com

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## **5881ENHC**

The new 5881ENHC RF Receiver is designed for use with control panels that are approved for use in commercial fire and/or burglary installations. The receiver recognizes alarm, status, and keypad control messages from wireless transmitters operating at 345MHz. Connection of up to two receivers to a control panel can provide redundant coverage or extend coverage in large areas. The receiver features a Spatial Diversity System that virtually eliminates the possibility of "nulls" and "dead spots" within the coverage area. The new 5881ENHC Receiver contains front and back tamper that permits its use in commercial fire/burglary installations.



#### **FEATURES:**

- Front and back tamper for commercial fire/burg Installations
- One or two receivers can be used to provide redundant coverage or extend coverage in large areas
- Spatial Diversity System virtually eliminates "nulls" and "dead spots" within the coverage area
- Connects to control panel via the keypad bus
- UL listed for Commercial Fire/Burg applications
- Can be mounted remotely, anywhere on the keypad bus for extended coverage
- Compatible with all 5800 series wireless devices

#### **Compatible Controls:**

 The 5881ENHC is compatible with: VISTA-32FB Rev 3, or higher VISTA-128B Rev 3, or higher VISTA-128FB Rev 4, or higher FA1600 Series Rev 8, or higher

**Ordering:** 

Part No. Description

5881ENHC Commercial Wireless Receiver



## **5881ENHC**

#### **SPECIFICATIONS:**

#### Dimensions:

7-3/8"W x 4-3/8"(10-7/8"w/antennas) H x 1-7/16"D 188mm W x 112mm H (277mm w/antennas) x 37mm D

#### Input Voltage:

12VDC (from control's keypad terminals)

#### Current:

60mA (typical)

#### **Operating Temperature:**

0-50°C

#### Interface wiring:

RED: 12VDC input (+) Aux. power

GREEN: Data out to control YELLOW: Data in from control

BLACK: Ground (-)

#### **UL Listings:**

Commercial Fire UL864 Household Fire UL985 Household Burg UL1023

Commercial Burg UL365, UL609, UL1076, UL1610

FM - Pending MEA - Pending CSFM - Pending

#### Range:

200ft (60m) nominal indoors from wireless transmitters (the actual range to be determined with the security system in the Test mode).

#### Installation:

See product installation instructions for details on programming and mounting.



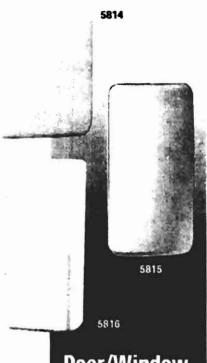
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## **5800 Transmitters**

The 5800 Series of door and window transmitters provide the most reliable, convenient and cost effective solutions for security protection. These devices are powerful and versatile enough to help solve even the toughest, most labor intensive installations.

With a demonstrated outdoor range of over a mile, the 5800 Series has the best performance of any transmitters available today. All 5800 Series transmitters send supervisory messages to the control panel, as well as tamper and low battery notification. The 5800 wireless technology will provide year after year of reliable security.



Door/Window Transmitters

#### **FEATURES:**

#### 5814 Ultra-Small Door/Window Transmitter

Although the 5814's compact design slightly decreases it's effective range to maintain a long battery life, it is the perfect solution for difficult to reach places and applications where aesthetics and small size is important (ornate doors/windows, casements, etc.)

- · Extremely compact
- · Features a built-in reed switch and tamper
- · Includes replaceable lithium coin cell battery
- Dimensions: 1-1/2" H x 1-1/5" W x 3/5" D

#### **5815 Door/Window Transmitter**

The 5815 is the ideal solution for installations where small size and aesthetics are important. It provides a reliable, convenient, and cost-effective solution for door and window protection.

- · New sleek design
- · Two reed switches
- · Transmits supervisory, tamper and low battery messages
- Dimensions: 1-1/2" W x 3" H x 7/8" D
- · Battery: 3V Lithium

#### **5816 Door/Window Transmitter**

Two zone transmitter with both built-in magnetic reed switches and wired closed circuit contact loop.

- · Features a standard white plastic case. Brown cases available in packs of three (5816BR)
- Dimensions: 3-1/16" H x 1-9/16" W x 1-3/16" D



## **5800 Transmitters**

#### **SPECIFICATIONS:**

#### **5816MN Door/Window Transmitter**

Two zone transmitter with both built-in magnetic reed switches [90° apart] and wired closed circuit contact loop.

- · Features a small design for a hidden professional look
- Dimensions: 3-1/16" H x 1-9/16" W x 1-5/32" D

#### **5817 Three Zone Universal Transmitter**

Three zone transmitter with three separate contact loops. Primary loop supports no open and normally closed applications and fast loop response time. The two auxilia support conventional normally closed contact applications.

- · Features a normal zone response time of 200msec; the fast zone response is 5m
- Dimensions: 3-1/2" H x 1-9/16" W x 1-3/16" D

#### **5817CB Universal Contact-Monitoring Transmitter**

The 5817CB is a universal contact-monitoring transmitter that can be used with household and commercial fire and burglary-initiating devices.

- · The 5817CB has three unique input loops (zones)
- The first loop (primary loop) is supervised and typically used for high-priority alarm such as commercial fire or burglery
- The second loop is the built-in, normally closed reed switch used in conjunction with magnet
- · The third loop is another normally closed household burglary loop. All three loops may be used
- A fourth (automatically enrolled) loop contains two tamper switches to protect the 5817CB
- Dimensions 1-9/16"W x 3-1/2"H x 1-3/16"D

#### **5818 Recessed Transmitter**

Contact sensor that provides concealed protection for a door or window.

- · Features a tapered cylinder for easy and flush fit
- · Includes self-contained transmitter, reed sensor, battery & recessed magnet
- Features a standard white plastic case; brown cases available (5818BR); plastic cover-up plug included
- · Use 7/8" drill bit for transmitter
- · Use 1/2" drill bit for magnet
- · Dimensions:

Transmitter: 13/16" diameter, 4-7/8" long Magnet: 1/2" diameter, 1-3/4" long

#### **ORDERING:**

Part No. Description 5814 Ultra Small Door/Window Transmitter 5815 Ultra Small Door/Window Transmitter 5816MN Door/Window Transmitter Door/Window Transmitter 5816 5817 Three Zone Universal Transmitter 5817CB Three Zone Universal Transmitter Recessed Transmitter 5818

5816MN

5817CB

5817

5818

Door/Window Transmitters

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## **5809** Wireless Heat Detector

## 5809



ADEMCO's ability to meet virtually any installation challenge using wireless, addressable or conventional UL Listed detection makes our product line unique

#### **FEATURES**

ADEMCO's 5809 wireless fixed heat and rate-of-rise temperature sensor offers expanded fire detection and installation flexibility. It is ideal for hard to wire locations and applications that require more than smoke detection. With no wires to run, the 5809 is fast and easy to install. The 5809 combines both rate-of-rise and fixed temperature sensors. Fires typically cause a rapid rise in temperature in the surrounding area. The 5809's rate-of-rise thermostat senses the rise in temperature and signals an alarm if the increase is 15° or more per minute. A built-in fixed temperature sensor will also signal an alarm if the environmental temperature rises above 135°F. The 5809 is UL Listed (UL521) and CSFM approved for commercial and residential applications.

- Contains a built-in transmitter which can send alarm, supervisory and battery condition messages to the system's receiver/control unit
- Powered by a three-volt lithium battery. If the battery voltage gets too low, the 5809 sends a low battery signal to the control panel
- Features a tamper switch, which causes a trouble signal to be sent to the control if the unit is removed from the mounting base
- ◆ UL Listed for Commercial (when using 5881EH Receiver) or Residential applications

#### **SPECIFICATIONS:**

#### **Power**

- ◆ 3V lithium battery (Duracell DL123A, Panasonic CR123A, Sanyo CR123A, Varta CR123A)
- ◆ Operating temperature: 40° to 140°F (6° to 60°C)
- ◆ Rate-of-rise temperature: 15°F (8°C) increase per minute (NOTE: Rate-of-rise sensor does not operate above 38°C)
- ◆ Fixed temperature: 135°F (57°C)
- ◆ Maximum spacing: 50 ft x 50 ft UL, 30 ft x 30 ft FM (refer to National Fire Alarm Code Standard NFPA 72 for application requirements)
- ◆ Dimensions: 4.4" diameter/2/2" deep

#### **AGENCY LISTINGS**

◆ UL 521 Listed for Commercial (when using 5881EH Received or Residential applications

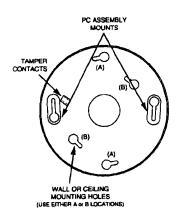
#### **WIRELESS TRANMISSION PATH TEST**

A good RF transmission path must be established from the proposed mounting location before permanently installing the detector. To determine that there is a good signal reception from the proposed location, perform the test procedure described in the installation instructions procedure.





## 5809



#### MOUNTING THE DETECTOR

You can mount the 5809 on a wall or ceiling within the protection area:

- ◆ Wall mounting: Mount the detector 4" 6" from the ceiling
- Ceiling mounting: Mount the detector at least
   4" from any wall. Make sure the normal ceiling temperature will not exceed 100°F.
- Refer to NFPA Standard 72 for detector spacing and other requirements. Maximum spacing for UL installations is 50' x 50'
- Avoid mounting the detector near heat generating devices (e.g. ovens, heat vents, furnaces, boilers)

IMPORTANT: Heat detectors should be used for property protection. Reliance should not be placed soley on heat detectors for life safety. When life safety is involved, smoke detectors MUST also be used. Detectors must not be painted.

#### **Testing the detector**

The test procedure should be performed to determine a good RF transmission path and again after installation is completed.

**CAUTION:** The fixed temperature sensor is intended for one-time use. Prolonged heat during testing can damage the unit. If used carefully following the instructions described below, the heat from a portable hair dryer can be used to test the unit. If the round disk on top of the detector detaches, the detector must be replaced.

- ◆ Activiate the control panel's test mode
- Use either method (a) or (b) or activate the detector
  - (a) Press and release the activation button on the PC board assembly OR
  - (b) Holding a portable hair dryer about 12 to 18 inches away from the detector, turn the dryer on and aim the warm air at the side of the detector.

## CAUTION: Aiming the dryer directly at the round disk on the detector can damage the unit to be replaced.

- The system's keypad should beep and the detector's ID should be displayed
- ◆ Exit the control's test mode

#### **FCC Notice**

FCC ID: CFS 8DL 5809

This device complies with part 15 of FCC rules. Operation is subject to the following conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Ordering Information** 

Part No. Description
5809 Heat Detector



### Honeywell

#### 5806W3

WIRELESS PHOTOELECTRIC SMOKE DETECTOR



Honeywell's 5806W3 is a 3V battery operated, photoelectronic smoke detector with a built-in wireless transmitter. It facilitates fire verification for false alarm reduction requirements by ANSI/SIA CP-01standards and is intended for use with any of Honeywell's 5800 Series wireless receiver/transceivers for residential installations. The 5881ENHC or 5883H receivers are required for commercial installations.

The transmitter can send alarm, tamper, maintenance (when control panels are equipped to process maintenance signals) and battery condition messages to the system's receiver. The maintenance signal fully complies with the sensitivity test requirement specified in NFPA 72, 7-2.2 and is UL approved.

The 5806W3 incorporates a state-of-the-art optical sensing chamber and advanced microprocessor. It also helps

eliminate nuisance alarms and virtually eliminates non-billable service calls and fines resulting from false alarms. The microprocessor allows the detector to automatically maintain proper operation at factory calibrated detection levels, even when sensitivity is altered due to the presence of contaminants settling into the unit's smoke chamber. A removable detector cover and chamber top allows the technician to quickly and easily clean the detector chamber without disassembling the detector head.

Since there are no holes to drill or wires to run, installers can preserve the beauty of the protected premise while protecting it. The 5806W3 is an ideal smoke detector for difficult to wire locations, applications where room aesthetics are critical or where hazardous materials exist.

#### **FEATURES**

#### Smoothing Algorithms

Mathematical calculations in the detector's software that minimize nuisance alarms by smoothing out short term spikes from dust and smoke.

#### Smart Check

A signal is sent to the control panel when the detector requires cleaning. This allows a regular, non-emergency service call to clean the detector before it goes into alarm.

#### Drift Compensation

Virtually eliminates nuisance alarms from long-term dust build-up by automatically adjusting the detector's sensitivity.

## • Removable Detector Cover and Chamber Top

Provides the technician the ability to quickly and easily clean the detector

chamber without disassembling the detector head.

#### Approved UL Listings for Residential and Commercial Applications

Both residential and commercial installation requirements are met.

#### Additional LED Status Indicators Identifying between alarm or trouble conditions is easier with green and red LED status indicators. The green LED denotes a normal condition while the red LED indicates an abnormal condition.

#### Easy-to-install Mounting Base

The sturdy mounting base allows the detector to be more easily installed on uneven surfaces (i.e. stucco). The mounting base has larger mounting ports to accommodate drywall anchors for easy surface mounting.

#### Improved Robust RF Field Strength

The distance between the detector and receiver has been significantly increased.

#### **Additional Features:**

- Utilizes one long-life 3V lithium battery
- Microcontroller runs on an 4.0 MHz clock
- Horn operates at 3.3 KHz with sound pressure level of 85dBA at 10 feet
- Built-in wireless transmitter, temporal code 3 sounder

#### 5806W3

#### WIRELESS PHOTOELECTRIC SMOKE DETECTOR

#### **SPECIFICATIONS**

- Dimensions
  - Diameter: 5.3"\*, Height: 2.30"
- Weight
  - 8.5 oz. (without batteries)
- Operating Temperature
  - 32-100°F (0-37.8°C)
- Humidity Range
  - -0% to 95% RH, non-condensing

- Air Velocity
- 1,000 ft./min. max.
- Operating Voltage
- 2.5-3.6VDC
- Standby Current
- 8.5 µA avg.
- Alarm Current
- 35 mA max.

- Power Source
- One 3V CR123A lithium Battery†
- Audible Output
- 85dB min. @ 10 ft.
- Agency Listings
  - UL268 Commercial and Residential

#### ACCESSORIES (sold separately)

#### SENS-RDR Infrared Sensitivity Reader

Reduces testing time, simplifies sensitivity measurements and displays them precisely in terms of percent per foot obscuration. The SENS-RDR eliminates the need for magnets, voltmeters and ladders.





#### **RT Removal Tool**

Simplifies the attachment and removal of the detector head to the mounting base. It may be attached to a threaded extension pole or broom handle thereby eliminating the need for ladders.



#### **ORDERING**

5806W3 Wireless Photoelectric Smoke Detector with Built-in Wireless Transmitter

Accessories sold separately:

SENS-RDR Hand-held Sensitivity Reader

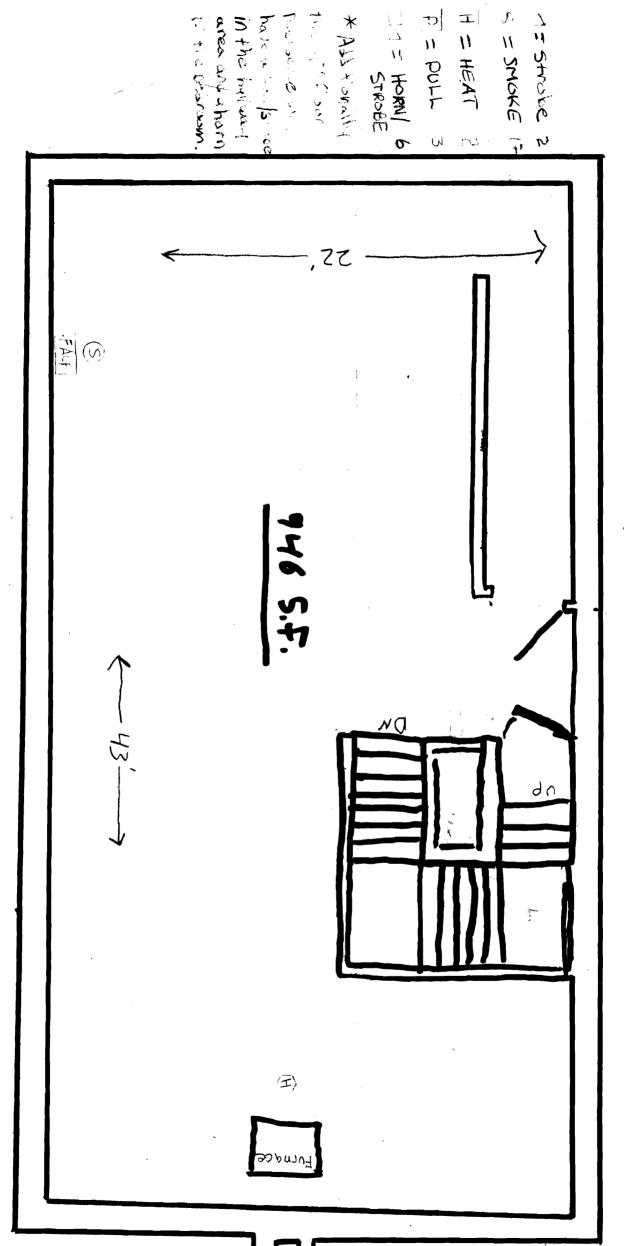
RT i3 Removal Tool used for easy installation and removal of head from base

**Honeywell Security & Communications** 

Honeywell 2 Corporate Center Dr. Suite 100 P.O. Box 9040 Melville, NY 11747 www.honeywell.com Honeywell

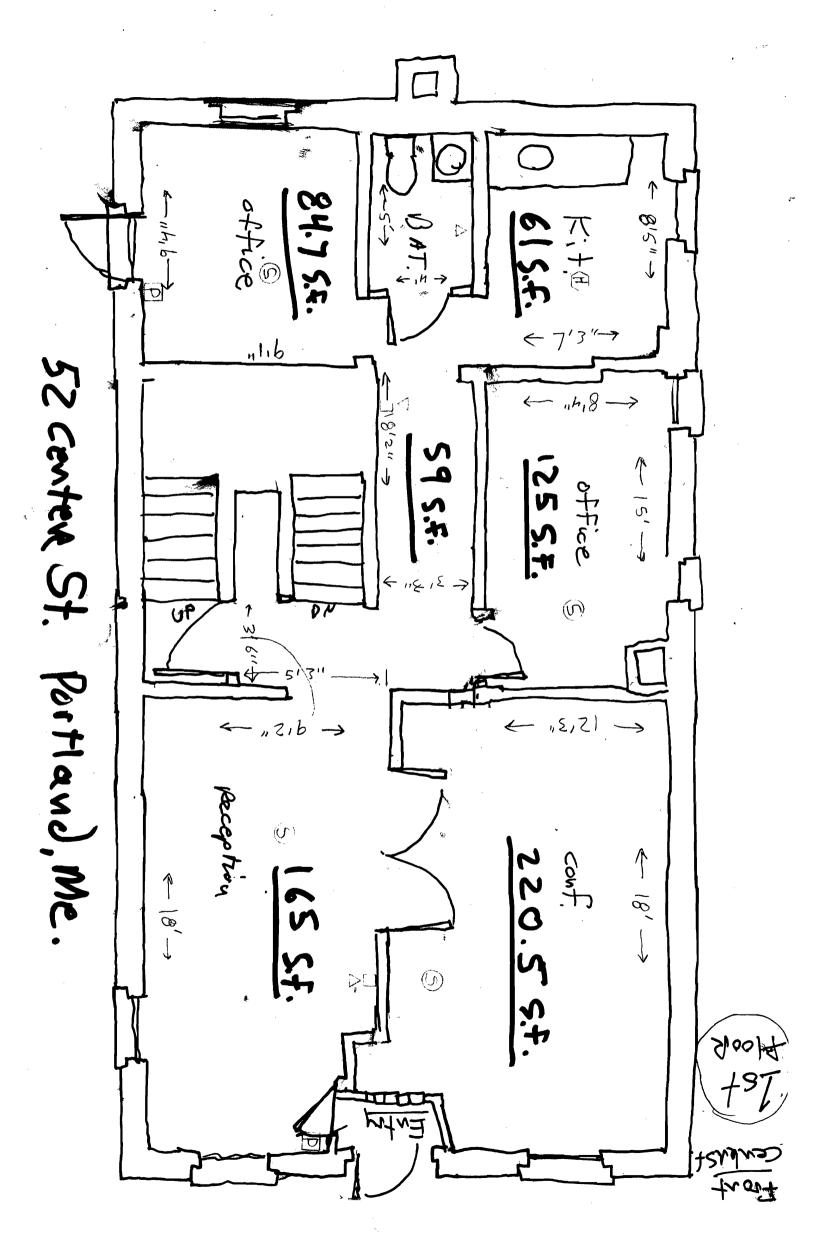
<sup>&</sup>quot;With adapter bracket (4.9" without mounting base)

<sup>&</sup>lt;sup>†</sup>Replacement batteries include Duracell DL123A, Sanyo CR123A. Panasonic CR123A, or ADEMCO 466



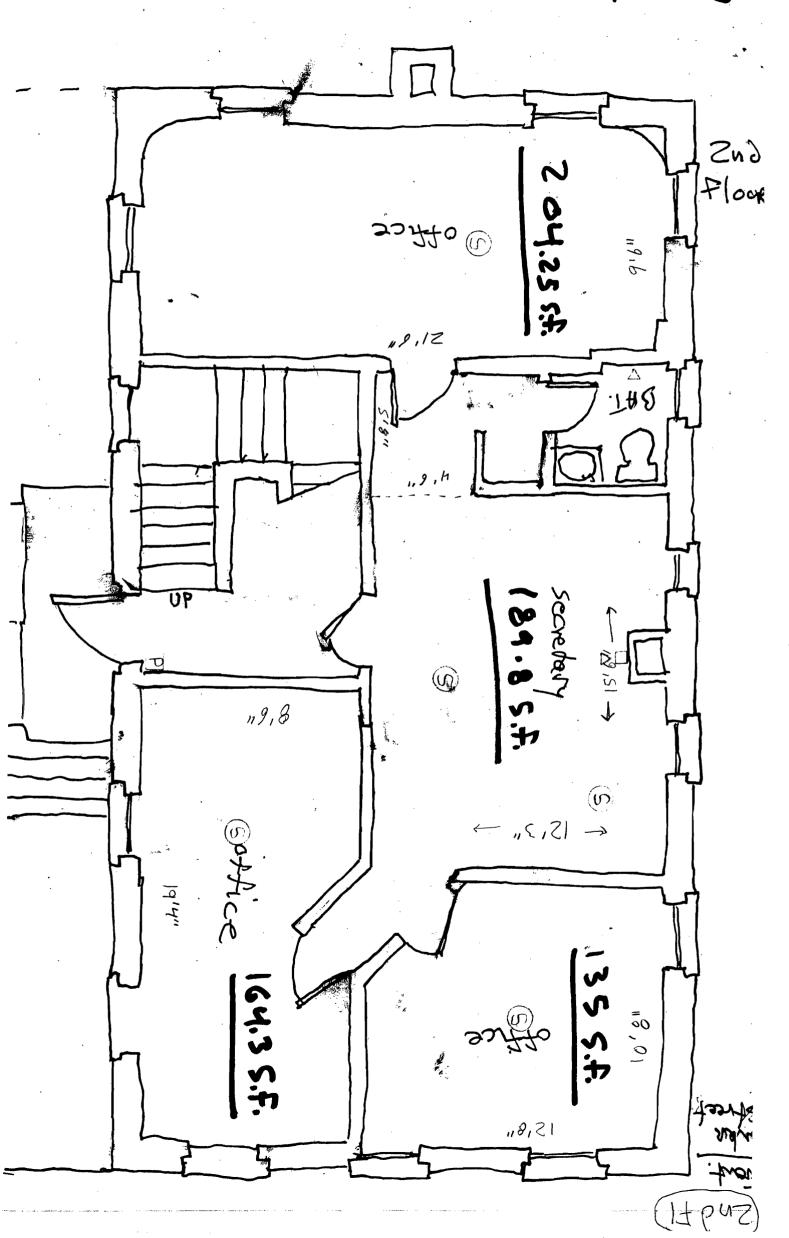
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