FIRE ALARM CONSTRUCTION DOCUMENT SET

SHEET INDEX						
SHEET	REV.	DESCRIPTION				
FA001		GENERAL SHEET, LEGEND & NOTES				
FA101		DEVICE LOCATION VIEWS - FIRST LEVEL, RISER DIAGRAMS				
FA501		SCHEDULES, POWER CALCULATIONS				
FA601		PRODUCT TYPICALS				
FA901		PRODUCT SHEETS				

SHEET NAMING CONVENTION						
SHEET	DESCRIPTION					
FA0XX	GENERAL SHEET, LEGEND & NOTES					
FA1XX	DEVICE LOCATION VIEWS - FIRST FLOOR					
FA5XX	SCHEDULES & RISER DIAGRAMS, POWER CALCULATIONS					
FA6XX	PRODUCT TYPICALS					
FA9XX	PRODUCT DATA SHEETS					

IDENTIFIERS					
TYPE	DESCRIPTION				
\(\tau\)	DEVICE IDENTIFIER - EXISTING, ADD, REPLACE, MOVE, DEMO				
X:XX:XXX XX	POINT OF PROTECTION IDENTIFIER / TYPE REFERENCE				
/_xx	REVISION IDENTIFIER				
√⊗	CABLE ID - SEE CABLE LEGEND				
	SHEET ID - SHEET DETAIL "A", "B", "C" / SHEET #XXXX				

CABLE LEGEND

ID	AWG	COND	SHEILD	CLASS	ID	AWG	SHEILD	CLASS
Α	16	2	N	FPLR	AA			
В	16	4	N	FPLR	BB			
С	16	2	N	FPLP	СС			
D	16	4	N	FPLP	DD			
Е	14	2	N	FPLR	EE			
F	14	4	N	FPLR	FF			
G	14	2	N	FPLP	GG			
Н	14	4	N	FPLP	HH			
I	12	2	N	FPLR	II			
J	12	4	N	FPLR	JJ			
K	12	2	N	FPLP	KK			
L	12	4	N	FPLP	LL			
М	16	2	N	TFFN	MM			
N	16	4	N	TFFN	NN			
0	16	2	N	THWN	00			
Р	16	4	N	THWN	PP			
Q					QQ			
U					UU			
R					RR			
S					SS			
Т					TT			
U					UU			
V					VV			
Х					XX			
Υ					YY			
Z					ZZ			

SHEET INDEX

SHEET INDEX THE SCOPE OF THIS PROJECT IS TO INSTALL A NEW FIRE ALARM CONTROL PANEL, NOTIFICATION, AND INITIATING DEVICES FOR THE PURPOSE OF NEW

SYSTEM CODES

INTERNATIONAL BUILDING CODE (IBC 2015 EDITION) INTERNATIONAL FIRE CODE (IFC 2015 EDITION) NATIONAL FIRE PROTECTION ASSOCATION (NFPA 70 2011 EDITION)

ADA INTERNATIONAL CODE ANSIE 117.1 UNDERWRITERS LABORATORIES, INCORPORATED PUYALLUP MUNICIPAL CODES

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 72 2013 EDITION) NATIONAL FIRE PROTECTION (NFPA 101 2011 EDITION)

USE & OCCUPANCY CLASSIFICATION

☐ ASSEMBLY (A) BUSINESS (B)

☐ MERCANTILE (M)

☐ RESIDENTIAL (R) ☐ STORAGE (S)

☐ EDUCATIONAL (E) ☐ FACTORY & INDUSTRIAL (F) ☐ HIGH HAZZARD (H) ☐ INSTITUTIONAL (I)

☐ I-3 ☐ I-4 □ S-1 □ S-2 □ S-3 □ S-4

□ A-1 □ A-2 □ A-3 □ A-4 □ A-5

☐ H-3
☐ H-4
☐ H-5

☐ UTILITY & MISCELLANEOUS (U)

BUILDING CONSTRUCTION TYPES

☐ TYPE I-A ☐ TYPE I-B ☐ TYPE II-A ☐ TYPE II-B ☐ TYPE III-A ☐ TYPE III-B ☐ TYPE IV ☐ TYPE V-A ☐ TYPE V-B

AUTOMATIC SPRINKLER PROTECTION

☐ PARTIAL ■ FULL

GENERAL NOTES

- 1. INSTALLATION SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH NFPA, LOCAL, AND STATE AHJ'S, NEC, AND CONTRACT DRAWINGS.
- 2. AS-BUILT DRAWINGS ARE REQUIRED AT THE TIME OF AHJ ACCEPTANCE. SMITH FIRE SYSTEMS REQUIRES ELECTRICAL RED LINES WITH IN TWO WEEKS PRIOR TO
- 3. AGREEMENT AND CONFIRMATION OF ALL MILESTONE EVENTS WILL BE MADE WITH SMITH FIRE SYSTEMS PROJECT MANAGER. ALL SMITH FIRE SYSTEMS FIELD SERVICES MUST BE SCHEDULED WITH SMITH FIRE SYSTEMS PROJECT MANAGER WITH A MINIMUM OF TEN BUSINESS DAY'S ADVANCE NOTICE.
- 4. A SET OF INSTALLATION AS-BUILT DRAWINGS SHOWING ACTUAL CONDUIT AND CONDUCTOR ROUTES SHALL BE KEPT BY PROJECT FOREMAN FOR USE BY SMITH FIRE SYSTEMS ALARM TECHNICIAN.
- 5. FIRE ALARM CONTROL PANEL SHALL NOT BE ENERGIZED WITHOUT THE PRESENCE OF A SMITH FIRE SYSTEMS ALARM TECHNICIAN.
- 6. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A UNDERWRITERS LISTED MONITORING STATION BEFORE AHJ'S TEST.
- 7. WIRE ROUTING IS DIAGRAMMATIC IN NATURE ONLY AND NOT INTENDED FOR ACTUAL CONDUIT ROUTING.
- 8. ALL CONDUIT SIZING AND ROUTING BY ELECTRICAL CONTRACTOR PER NEC AND AHJ. 9. NO LINE VOLTAGE IN SAME CONDUIT AS POWER LIMITED FIRE ALARM CABLE.
- 10. VERIFY ALL LOCATIONS OF DEVICES WITH ELECTRICAL AND ARCHITECTURAL PLANS. SCALE AND PLACE ALL DEVICES PER ELECTRICAL AND ARCHITECTURAL PLANS.
- 11. FIELD VERIFY WATERFLOW SWITCHES, TAMPER SWITCHES, PRESSURE SWITCHES, SMOKE DAMPERS, AND DUCT DETECTOR LOCATIONS.

COMPLETELY FREE FROM CONDUIT OR EARTH GROUNDS. SHIELDS WILL BE TIED TO GROUND ONLY AT THE FIR ALARM CONTROL PANEL.

- 12. FIELD VERIFY ALL WIRING LOCATIONS AND REQUIREMENTS FOR HVAC AND FAN CONTROL.
- 13. SMOKE DETECTORS SHALL NOT BE LOCATED WITH IN 36" OF ANY AIR DIFFUSER.
- 14. WALL MOUNTED AUDIBLE/VISUAL APPLIANCES SHALL BE MOUNTED IN SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THE 96" ABOVE FINISHED FLOOR.
- 15. THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 3'-6" AND NOT MORE THAN 4'-6" ABOVE THE FINISHED FLOOR.
- 16. NO DETECTOR SHALL BE INSTALLED UNTIL AFTER FINAL CONSTRUCTION CLEAN-UP. DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO CLEAN-UP MUST BE CLEANED OR REPLACED AND WILL BE INVOICED ON A TIME AND MATERIAL BASES.
- 17. A DEDICATED BRANCH CIRCUIT OF ONE OF THE FOLLOWING SHALL SUPPLY PRIMARY POWER. A) COMMERCIAL LIGHT AND POWER.
- B) AN ENGINE-DRIVEN GENERATOR OR EQUIVALENT WHERE A PERSON SPECIFICALLY TRAINED IN ITS OPERATIONS IS ON DUTY AT ALL TIMES.

 C) AN ENGINE-DRIVEN GENERATOR OR EQUIVALENT ARRANGED FOR COGENERATION WITH COMMERCIAL LIGHT AND POWER WHERE A PERSON SPECIFICALLY TRAINED IN ITS OPERATION IS ON DUTY AT ALL TIMES.
- 18. ALL CIRCUITS WILL BE PROPERLY TAGGED AND TESTED FOR OPENS, SHORTS, GROUNDS, AND PROPER "END-TO-LINE" RESISTANCE. EACH CIRCUITS METER READING MUST BE DOCUMENTED AND PRESENTED TO SMITH FIRE SYSTEMS ALARM TECHNICIAN UPON ARRIVAL ONSITE FOR STARTUP AND CHECKOUT. 19. NO TAPPING OF SIGNALING OR INITIATING ZONE CIRCUITS ARE ALLOWED. T-TAPPING OF STYLE 4 ADDRESSABLE CIRCUITS IS ALLOWED PROVIDING A SPLICE IS PROFESSIONALLY INSTALLED, POLARITY IS OBSERVED, AND SHIELDS ARE CONTINUOUS AND FREE OF GROUNDS. SHIELDS MUST BE TERMINATED AT THE FIRE ALARM CONTROL PANEL ONLY. CABLE SHIELDS SHALL BE SPLICED TOGETHER AT EVERY JUNCTION BETWEEN THE FIRE ALARM CONTROL PANEL AND THE LAST DEVICE ON EACH CABLE RUN. SHIELDS AND OTHER FIRE ALARM CONDUCTORS (EXCEPT POWER GROUNDS) SHALL BE INSULATED AND

DRAWING ACCEPTANCE

THIS DRAWING IS TO BE USED FOR THE PURPOSE OF PLACING AND LOCATING SMITH FIRE SYSTEMS FIRE ALARM DEVICES AND IS NOT BE USED FOR ANY OTHER

RECORD DRAWINGS

ALL WORK PERFORMED IN THE FIELD SHALL BE ACCURATELY RECORDED ON THESE DRAWINGS AND RETURNED TO SMITH FIRE SYSTEMS CORPORATE OFFICE.

MONITORING COMPANY	INSTALLATION COMPANY
TO BE DETERMINED	SMITH FIRE SYSTEMS 1106 54TH AVE E, TACOMA, WA 98424

FIRE ALARM - PANELS

<u> </u>	TIL ALATO			
QTY	SYMBOL	DEVICE DESCRIPTION		
1	FACP	FIRE ALARM CONTROL PANEL		
	FM200	FM-200 CLEAN AGENT PANEL		
	PAP	PRE-ACTION CONTROL PANEL		
	EVAC	VOICE EVACUATION CONTROL PANEL		
	FSE	FIRE SIGNAL EXPANDER		
	ANN	REMOTE ANNUNCIATOR		
	UTZ	SUBSCRIBER TERMINAL UNIT		
1	RADIO	AES RADIO		

FIRE ALARM - NOTIFICATION DEVICES

<u> </u>		- NOTILIOATION DEVICES
QTY	SYMBOL	DEVICE DESCRIPTION
3	Ø	WALL STROBE
	\boxtimes	WALL STROBE WEATHERPROOF
12	Q	CEILING STROBE
	\times_{VP}	CEILING STROBE WEATHERPROOF
	DX	WALL HORN-STROBE
1	$\supset \boxtimes$	WALL HORN-STROBE WEATHERPROOF
5	H	CEILING HORN-STROBE
	HVP	CEILING HORN-STROBE WEATHERPROOF
		WALL HORN
	Œ	CEILING HORN
	DØ	WALL MINI-SPEAKER
	2	WALL SPEAKER
	3	CEILING SPEAKER
	$\overline{\mathbb{H}}$	WALL SPEAKER/STROBE
	<i>[22]</i>	CEILING SPEAKER/STROBE
	С	WALL CHIME
	0	CEILING CHIME
	В	WALL BUZZER
	B	CEILING BUZZER
		BELL

FIRE ALARM - DETECTORS

QTY	SYMBOL	DEVICE DESCRIPTION
27	⊘ P	SMOKE DETECTOR
	(S) _{AB}	SMOKE DETECTOR ABOVE CEILING
	S BL	SMOKE DETECTOR BELOW CEILING
	•	DUCT SMOKE DETECTOR
	RTS	DUCT SMOKE DETECTOR REMOTE TEST SWITCH
	S B⊥	SMOKE BEAM TRANSMITTER
	⊘ BR	SMOKE BEAM RECEIVER
3	⊕ _F	135° FIXED TEMP HEAT DETECTOR
	\bigcirc_{R}	135° RATE OF RISE HEAT DETECTOR
	194 *	194° FIXED TEMP HEAT DETECTOR
	194* R	194° RATE OF RISE HEAT DETECTOR
	190° F	190° FIXED TEMP HEAT DETECTOR
	194*	194° LINE TYPE HEAT DETECTOR

FIRE ALARM - MODULE / RELAY

	QTY	SYMBOL	DEVICE DESCRIPTION
	1	F	MANUAL PULL STATION
		ММ	MINI MONITOR MODULE
Ī		М	MONITOR MODULE
		M2	TWO POINT POINT MONITOR MODULE
Ī	1	M4	FOUR POINT MONITOR MODULE
Ī		R	RELAY MODULE
		(CR)	CONTROL RELAY MODULE
		IN	INPUT MODULE
		ID	FOUR POINT INPUT/OUTPUT RELAY MODULE
Ī		IM	ISOLATION MODULE
Ī		NM	NOTIFICATION MODULE
Ī		SM	SYNC MODULE
		DH	DOOR HOLDER

FIRE ALARM - SPRINKLER

QTY	SYMBOL	DEVICE DESCRIPTION
	\otimes	SPRINKLER RISER
	4	WATER GONG BELL
Е	FS	WATERFLOW SWITCH
	PS	PRESSURE SWITCH
E	ZT	TAMPER SWITCH

FIRE ALARM - FIREMAN'S PHONE

QTY	SYMBOL	DEVICE DESCRIPTION
	ESR	ELEVATOR STATUS RECALL
	FFP	FIRE FIGHTERS PHONE
	【 J	FIRE FIGHTERS PHONE JACK
	C μ	FIRE FIGHTERS HANDSET

FIRE ALARM - MISCELLANEOUS

	1	
QTY	SYMBOL	DEVICE DESCRIPTION
	КН	KITCHEN HOOD
	♦	JUNCTION BOX
3		BATTERY

ACCESS / SECURITY / CAMERA - DEVICES

QTY	SYMBOL	DEVICE DESCRIPTION
	NC (NURSE CALL
	CCTV	CCTV CAMERA
	CCTV(∫ W P	CCTV CAMERA WEATHERPROOF
	BO	DOOR BELL
	B/	DOOR BUZZER
	В	DOOR CHIME
	DR	SECURITY ELECTRONIC DOOR OPENER
	ESV	SECURITY ELECTRONIC DOOR STRIKE
	IC	INTERCOM UNIT
	MI	MASTER INTERCOM & DIRECTORY
	MD 🛠	MOTION DETECTOR
	ML	SECURITY DOOR ALARM MAG LOCK
	CR	SECURITY CARD READER
	CR WP	SECURITY CARD READER WEATHERPROOF
	SCN	SECURITY CONTROL UNIT
	SCP	SECURITY DOOR PANEL
	DC	SECURITY DOOR CONTACTS
	•	SECURITY EXIT PUSH BUTTON
	К	SECURITY KEY PAD

VITRINE

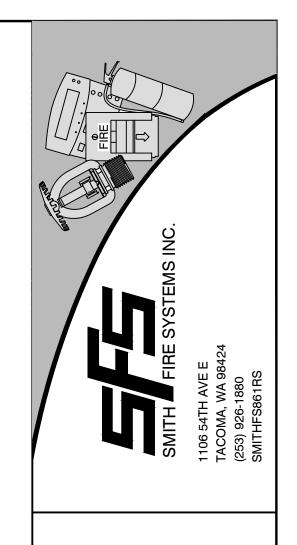
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JEF				
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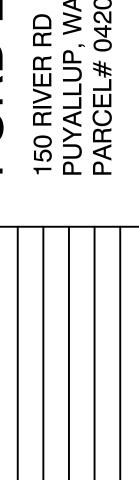
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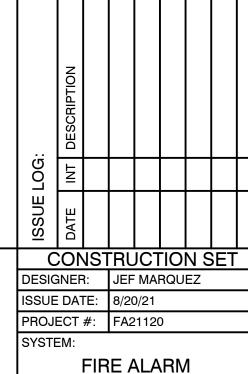
FIRE ALARM

ISSUE DATE: | 8/20/21 PROJECT #: FA21120

> GENERAL SHEET **LEGEND & NOTES**







FIRE ALARM

KEY PLAN

RIVER RD

WORK AREA

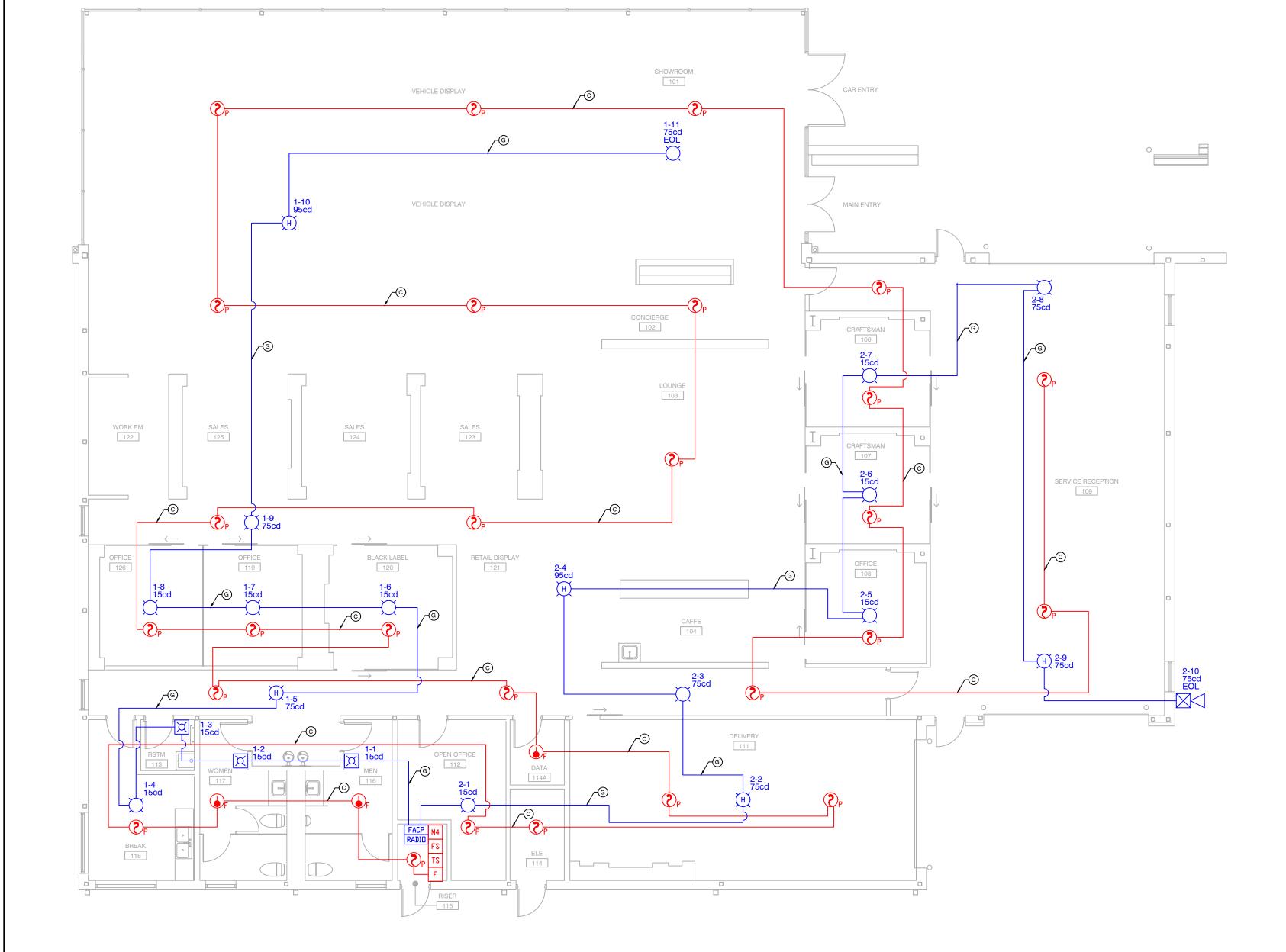
KEY PLAN

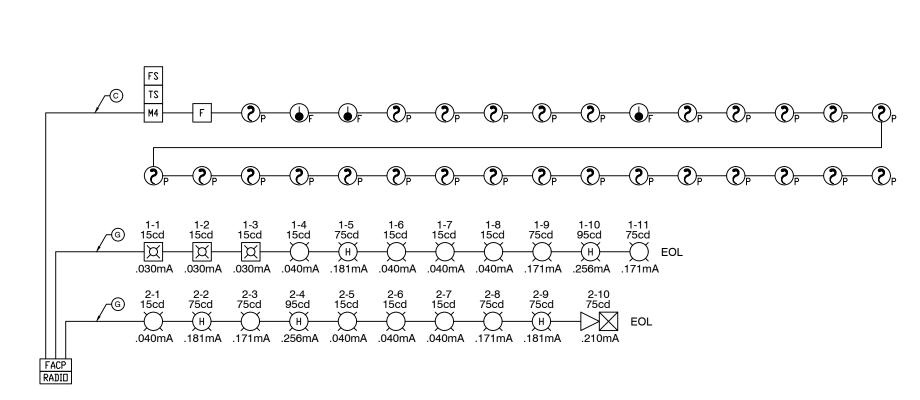
N.T.S.

DEVICE LOCATION VIEWS & RISER DIAGRAM

FA101

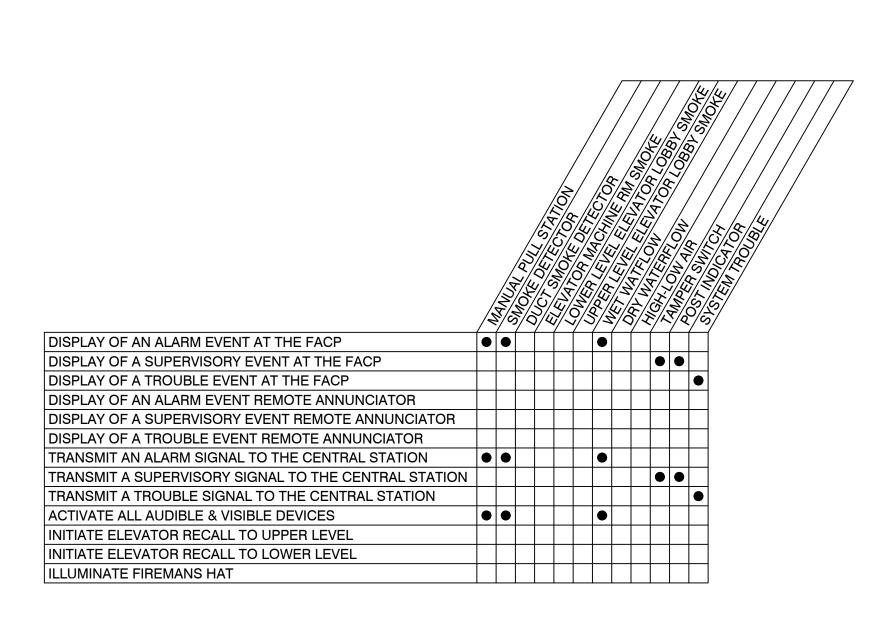
SCHEDULES & RISER DIAGRAMS





DEVICE LOCATIONS - 1ST LEVEL

SCALE: 1/8" = 1'-0"



	A PAGE TO A PAGE	IEMENS FC	ICOLN VITRINE 922 FACP		v-	
		8	13			
Current Load:		,	Standby:	Ala	arm:	
Device Type	Quantity	Amps	Total	Amps	Total	
		•	11.7.750	5.000 M		
Main System Board	1	0.12000	0.1200	0.70000	0.7000	
NAC 1	1	0.00000	0.0000	1.02900	1.0290	
NAC 2	1	0.00000	0.0000	1.33000	1.3300	
NAC 3	1	0.00000	0.0000	0.00000	0.0000	
NAC 4	1	0.00000	0.0000	0.00000	0.0000	
FDCIO422	1	0.00100	0.0010	0.00100	0.0010	
HI921	3	0.00025	0.0008	0.00041	0.0012	
OP921	27	0.00250	0.0675	0.00041	0.0111	
Total Panel Loads:			0.189	Amps	3.072	Amps
Standby Current Load:	0.189	Amps	For 24 Hours =	4.542	Amp-hours	
Alarm Current Load:	3.072	Amps	For 5 Minutes=	0.258	Amp-hours	
			20% Derating=	5.760	Amp-hours	
Total S	ystem Curren	t Load:		5.760	Amp-hours	
Battery Pair to be Used:	12VDC		Amp-hours	8		

Voltage Drop Chart									
FA21120 FORD LINCOLN VITRINE									
Panel	Circuit	Area	Total Wire Length	Amps	Voltage Drop	EOL Voltage			
FACP	1	NEW DEVICES	954	1.029	2.474	21.526			
FACP	2	NEW DEVICES	854	1.330	2.862	21.138			

DESIGNER: JEF MARQUEZ ISSUE DATE: 8/20/21
PROJECT #: FA21120

POWER CALCULATIONS

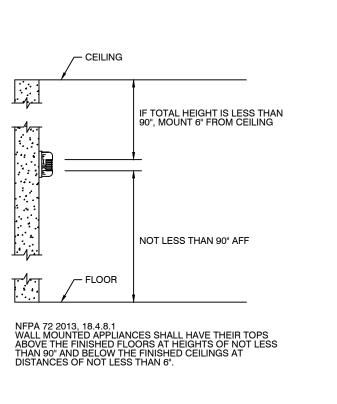
SCHEDULES & CALCULATIONS

FIRE ALARM

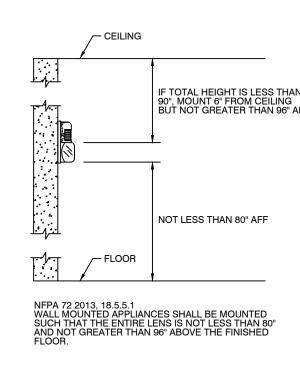
FIRE ALARM

PRODUCT TYPICALS

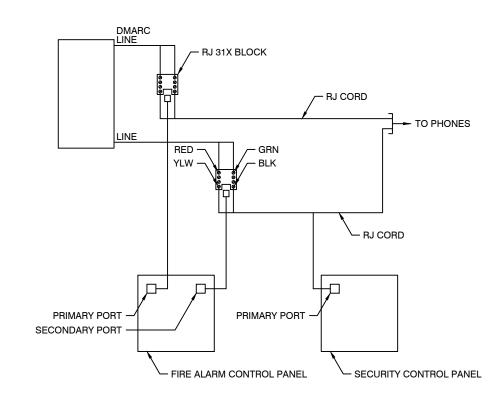
FA601



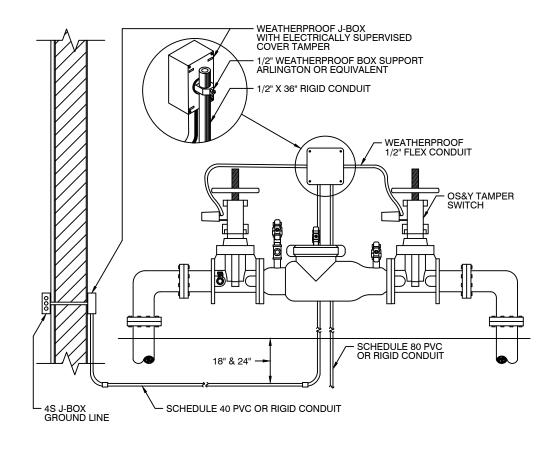
FIRE ALARM - HORN MOUNTING



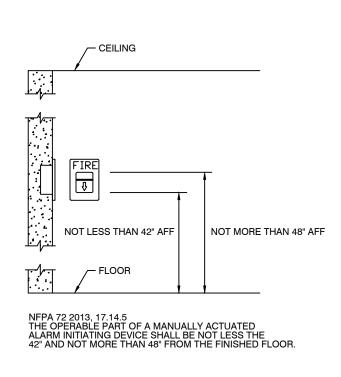
FIRE ALARM - STROBE MOUNTING



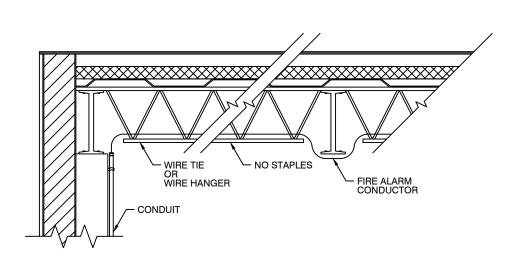
FIRE ALARM - PHONE CONNECTION



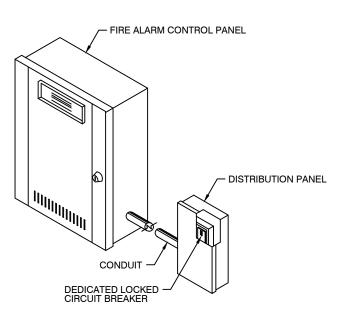
FIRE ALARM - DCVA TAMPER SWITCHES

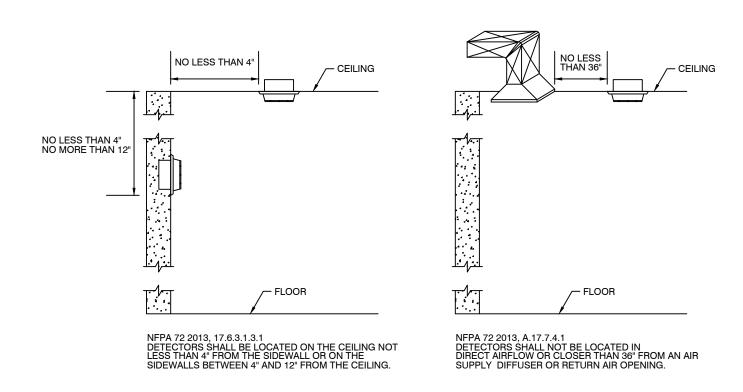


FIRE ALARM - PULL STATION MOUNTING

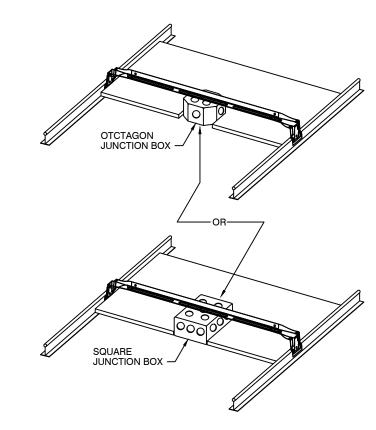


FIRE ALARM - CEILING TO WALL TRANSITION AND OPEN WIRING

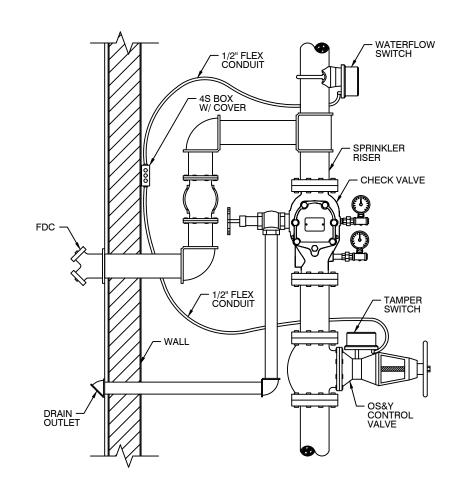




FIRE ALARM - SMOKE & HEAT MOUNTING



FIRE ALARM - DROP CEILING & J BOX



FIRE ALARM - OS&Y TAMPER GATE VALVE





Operating Interface Unit The Cerberus PRO 252-point (Model FC922) / 504oint (Model FC924) addressable FACP is designed to

The Operating Interface Unit (Model FCM2018-U3 or meet the fire-protection needs of mid-size buildings. Model FCM019-U3) functions as the operating interface This advanced FACP offers features typically required and central microprocessor for Models FC922 and FC924. n mid-size buildings in a package that is easy to stall and competitively priced. Additionally, Models for each end-user to efficiently 'Acknowledge' events; to FC922 and FC924 are networkable, allowing the quickly control the NACs of the FACP, and to permit a systems to fulfill the growing fire-protection needs of the building. The programming software for the 252 the nature and location of the events can also be displayed, 504-point fire systems is held in flash electrically via a backlit, 2'' -x - 4-3/4'' (5.1 cm. -x - 12.1 cm.) LCI erasable programmable read-only memory (EEPROM). screen and the four-way navigation push button at the top The following Cerberus PRO system components are of the FACP. used in the 252-point / 504-point FACP: Operating units
 Power supplies
 Periphery boards
 System enclosures The periphery boards (Models FCI2016-U1 and FCI2017-U1) serve as the main operating components for the

Cerberus® PRO Fire Safety Products

7707 Fire Subscribers

Feature Highlights

Leverages state of the art technology

Enables future ready capabilities

Emulates virtual kevpad

Plus many more...

Applies advanced security protection

via smartphones, tablets and PCs

licensed wireless networks

Provides versatile power options:

without Subscriber backup battery;

IntelliNet 20

A Newer, Smarter Alarm

Communications Platform

Offers flexible power and configuration options

a backlit LCD display, and Menu/Silence button

Engineered for backward compatibility with legacy systems

Includes robust Multiple Communication Technologies (MCT) feature

Adds integrated supervision of AES-IntelliPro full data module

(2) Directly from the FACP with Subscriber backup battery; or

(3) Traditional installation with plug in Class 2 low power transformer

with highly flexible and scalable alarm communications infrastructure

Provides instant subscriber status through front panel with Power and Trouble LEDs,

Improves functionality with an adaptive Graphic User Interface (GUI) for programming

Built upon the solid foundation of AES-IntelliNet patented mesh radio technology for use in private

(1) Direct from the Fire Alarm Control Panel (FACP) without requiring an electrician onsite and

· Allows for enhancement upgrades and an expanded number of new features to be added easily

Rigorously tested to the highest industry standards and future ready to meet emerging NFPA code

Makes programming and streamlined troubleshooting easy with user friendly interface

Protects subscriber units against unauthorized access and rogue activity with a password-protected

Other options are available to meet specific needs.

Models FC922 and FC924 are FM (#3010); CSFM

(#7165-0067:0259) and FDNY (#6104) Approved.

FACP for mid-size buildings

SIEMENS

aes-corp.com

252 / 504-point FACP. Each module operates and

monitors input-device identity; as well as controls the

signaling-line circuits that communicate with smoke detectors and other field devices (i.e. – C-NET).

Specifications — (continued) Power Supplies

All functions are supported by the power supplies Additionally, the two-height-unit enclosure (Model FP2011-U1 or Model FP2012-U1), which therefore eliminate the need for external power supplies.

supports the following optional components:

• Enclosure trim kit (for flush-mounting) Battery bracket (to comply with seismic certification) DIN rail kit (provides connection between and 300-Watt power supply (Model FP2012-U1) provide primary, 24VDC nominal power for normal operation to Models FC922 and FC924. Both power supplies are filtered and regulated. Model FP2011-U1 is rated at 6.5 Amps, Optional Accessories <u>Digital Alarm Communication Transmitter</u> (DACT) and the rating for Model FP2012-U1 is 11.5A. The 170-Watt power supply incorporates a 4.0A, non-

configured for a variety of applications, as well as for

unit enclosures can also mount system back-up batteries

Models FC922 and FC924 utilize a two-height-unit

enclosure. The following components comprise a complete two-height-unit enclosure:

One (1) back box, (Model FHB2002-U1 / R1)

Note: One (1) window is installed for Model FHD2002-U3 / R3 outer door, and two (2) windows are required for Model FHD2003-U3 / R3.

components, is approximately 6.3 Lbs. (2858 g).

SIEMENS Industry, Inc.

2.0 PREMIUM (UL & ULC Listed)

How to Order

7707P-88-M

7707P-88-ULP-M

7707P-44-ULP-M

2.0 ACCESSORIES

7794A

77-WiFi

77-FACPA

7706-ULF

7788F-ULP-P

7788F-ULP

7744F-ULP-P

LEGACY ACCESSORIES

7744F-ULP

77-FACPA-KIT

The approximate size for each two-height-unit enclosure

is: 27.5" (70cm.) high; 21.5" (54.6cm.) wide, and 5.75"

enclosure doors.

up to 33AH in capacity.

resettable slow-blow fuse on the primary input, and includes a built-in AC-line filter for surge and noise suppression. Model FP2011-U1 mounts in the FACP The Model FCA2015-U1 module mounts directly on the back parts to be maintained.

Here are no serviceable Cerberus PRO parts to be maintained.

Here are no serviceable Cerberus PRO enclosure and connects to the periphery boards. The DACT enables remote transmission of alarms and events via a The 300-Watt power supply incorporates two (2) 6.3A public telephone line. Releasing Module

replaceable, non-resettable slow-blow fuses on the primary input and includes a built-in AC line filter for surge and The releasing module (Model XCI2001-U1) supports noise suppression. Model FP2012-U1 mounts in the FACP's enclosure, and there are no serviceable Cerberus PRO parts activation of releasing valves in pre-action / deluge systems (including double-interlock pre-action systems, or Sinorix® Engineered Fire Suppression systems). Activation can be to be maintained. System Enclosures event-controlled or performed by addressable manual pull The Cerberus PRO fire-alarm enclosures and their stations. The releasing module is installed on the periphery accessories provide a complete set of hardware for mounting all Cerberus PRO main-system and remote When installed on Models FC922 / FC924, the releasing module contains an integral manual-disconnect switch for The hardware allows this Cerberus PRO system to be releasing circuits. This essential feature protects the releasing

IntelliNet 2.0 Fire Subscribers

onboard Local Annunciator plus MCT, Red Enclosure

MCT, Red Enclosure

AES certified WiFi adapter

Red Enclosure

FACP Power Supply Adapter for internal mount

External installation hardware for 2-way Junction Box

Legacy Fire Subscribers

Integrated Fire Monitoring System, Red Enclosure

Multiple Communication Technologies (MCT), Red Enclosure

IntelliNet 2.0 Fire Subscriber, 8 Zone with Multiple Communication Technologies

IntelliNet 2.0 Fire Subscriber, 8 Zone with 7794A AES-IntelliPro, and integrated

IntelliNet 2.0 Fire Subscriber, 4x4 Zone (4 Reversing Polarity, 4 Supervised) with

ntelliNet 2.0 Fire Subscriber, 4x4 Zone (4 Reversing Polarity, 4 Supervised)

Standalone AES-IntelliPro Fire full data module add-on accessory board with

egacy Fire Subscriber, 8 Zone with 7795 AES-IntelliPro (7794 full data module,

Legacy Fire Subscriber, 8 Zone, 8 Supervised Zones with 7794 AES-IntelliPro,

Legacy Fire Subscriber, 4 Zone with 7795 AES-IntelliPro (7794 full data module.

Legacy Fire Subscriber, 4x4 Zone, 4 Supervised Zones with 7794 AES-IntelliPro,

Standalone AES-IntelliPro Fire full data module add-on accessory board for legacy

Legacy Fire Subscriber, 4x4 Zone, 4 Reversing Polarity, 4 Supervised Zones,

units only, please see 7794A above for IntelliNet 2.0 version

Legacy Fire Subscriber, 8 Zone, 8 Supervised Zones, Red Enclosure

7762 hardware supervisory module, and 7740 Local Annunciator), Red Enclosure

firmware for new IntelliNet 2.0 units only, cannot be used in legacy units

with 7794A AES-IntelliPro, and integrated onboard Local Annunciator plus

future system upgrades. Included in the enclosure series are back box and door sets; removable mounting plates and clear lenses, as well as blank plates for use with the Battery Disconnect Module The Battery Disconnect Module (Model FCA2032-U1) is specifically designed to disconnect the backup battery on All enclosures come with ground straps for the inner and the Cerberus PRO 252 / 504-point addressable FACP when its voltage drops below 19VDC. Model FCA2032-U1's cut-off outer doors, shield termination lugs, grounding lugs, and tie wrap lances for securing wire. All Cerberus PRO heightcapability prevents the battery from operating beyond its normal power level for basic system operation

internal-system wiring and field wiring)

Model FHA2056-series kits are specifically designed for the seamless transition of an existing Siemens FS-250 (FireSeeker) control panel into a fully operational 252 or One (1) Dack Dox, (Model FHB2002-U1 / R1)
One (1) or two (2) inner doors,
(Models FHD2004-U1 or FHD2005-U1)
One (1) outer door,
(Model FHD2002-U3 / R3 or FHD2003-U3 / R3)
One (1) or two (2) clear windows, (Model FHD2006-U1) 504-point addressable Cerberus PRO fire-alarm FACP. [FC922 or FC924, respectively]. Each shipment of the Model FHA2056-series kits contains the following: One (1) outer door One (1) hinge-assembly bracket One (1) back plate Note: The five (5) items that comprise one (1)

kit cannot be ordered individually.

Cerberus® PRO

7707 Fire

SIEMENS Industry, Inc.

a 3rd-party system for life-safety objects.

order to prevent unauthorized access.

Technical Specifications

13"H x 8.5"W x 4.5"D

5.8 lbs (2.6 kilograms)

RADIO FREQUENCY

and VHF frequencies

antenna available

POWER INPUT

Transformer: Class 2

16.5V AC nominal output

1.9 A max current (40 VA MIN)

AC SOURCES

Contact AES for other UHF

2.5 dB tamper resistant antenn

included, mounts on enclosure

excluding battery

10 Ah battery

450-470 MHz

(33cmH x 21.5cmW x 11.4cmD)

be supported on a RS-485 bus.

S-series License Keys

PRO FACP or from another ®UL Listed, 24VDC power source.

Specifications — (continued) Network Module
The C-WEB network module (Model FN2001-U1) is used to Tabular annunciators allow system events sent from Cerberus PRO addressable panels to be displayed remotely in real-time. The Model FT2008 series of network up to 16 FACPs, or one (1) fire terminal, via the C-NET system bus. Model FN2001-U1 is plugged into the Operating Unit (or an Operating Unit with built-in LEDs). Model FN2001-U1, which connects to a system input / output bus, has ground-fault monitoring, as well as an integrated

tabular annunciators has 16 zones, and the Model FT2009 series uses 96 LEDs for 32 zones. Up to two degrade-mode feature. Redundant networking is done with Tabular annunciators provide outputs for system and ne (1) network module per FACP [Simple-Loop Trouble]. zone status, and are orderable in either black or red. There is electrical isolation between the system bus and FACP. Remote Display Terminals The Remote Display Terminals (Models FT2014-U3 / R3 and FT2015-U3 / R3) are remote annunciators that show the existing status of Models FC922 / FC924.

custom graphic annunciators on addressable Cerberus PRO FACPs. This optional system module provides 96 highly programmable outputs to drive LED indicators. Light-emitting diodes (LEDs) will illuminate for any given There are 16 inputs to accommodate user-system Alarm, Supervisory and Trouble Cerberus PRO-system event. A LCD screen will give details of the event in commands: Silence, Unsilence, Reset, Acknowledge and Lamp Test. Model FT2007-U1 is supervised via a alphanumeric form. The display screen can be scrolled, via RS–485 interface. A maximum eight (8) modules are allowed on each RS–485 communication bus. the four-way navigation button, to reveal additional events.

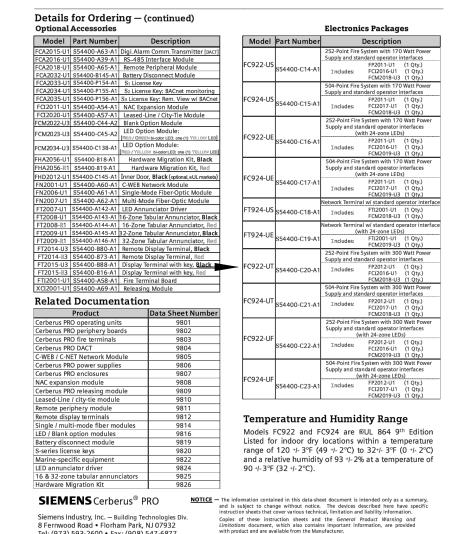
Model FT2014-U3 / R3 is a display-only remote

Model FT2014-U3 / R3 is a display-only remove annunciator that has one (1) button used to silence the local sounder. Model FT2015-U3 / R3 has three (3) control buttons for 'acknowledging' events, 'silencing' audible circuits and control buttons are control buttons and control buttons are control buttons and control buttons and control buttons and control buttons are control buttons and control buttons and control buttons are control buttons and control buttons and control buttons are control buttons and control buttons and control buttons are control buttons and control buttons and control buttons and control buttons are control buttons and control buttons and control buttons are control buttons and control buttons and control buttons are control buttons and control buttons and control buttons are control buttons are control buttons are control buttons and control buttons are control buttons a resetting' the system. Additionally, there are three (3) user-programmable buttons available. Model FT2015-U3 / R3 has an integral key switch that enables the control buttons to operate. two (2) 'Class B' NACs The remote display terminals are remotely connected to Models FC922 and FC924, via the RS–485 interface.

Each NAC is rated at 3 Amps. Each NAC expansion module is monitored for Models FC922 and FC924 require the Model FCA2016open-line and short-circuit conditions. U1 RS-485 module to provide communication to the remote display terminals. Model FCA2016-U1 supports Details for Ordering Style 4 or Style 6 wiring. Up to eight (8) modules can Model Part Description The remote display terminals require 24VDC [nominal] power.

U3 S54400-C41-A2 Operating Interface Unit with LEDs
U1 S54400-847-A1 1HU Back Box, **Black**R1 S54400-847-A2 1HU Back Box, Red U1 S54400-B48-A1 2HU Back Box, **Black** R1 S54400-B48-A2 2HU Back Box, Red The S1 license key (Model FCA2033-A1) allows for virtual J3 S54400-B45-A1 1HU Outer Door, Black monitoring and control between a 252 / 504-point addressable fire-only panel and a personal computer. S S54400-B40-A1 1HU Outer Door, Red \$54400-B32-A1 2HU Outer Door w/ 2 Windows, **Black** \$54400-C53-A1 2HU Outer Door w/ 1 Window, Red The S2 license key (Model FCA2034-A1) is a BACnet output, and is used for monitoring-only purposes by 3 S54400-C42-A1 2HU Outer Door w/ 2 Windows, Blac The S3 license key (Model FCA2035-A1) is a combination license key that allows for virtual monitoring and control, as well as for distribution of J1 500-450222 170-Watt Power Supply J1 S54400-Z60-A1 300-Watt Power Supply personal identification number (PIN) must be used in

Cerberus® PRO



8 Fernwood Road • Florham Park, NJ 07932 Tel: (973) 593-2600 • Fax: (908) 547-6877 Web: www.USA.Siemens.com/Cerberus-PRO

January 2018 — Supersedes sheet dated 4/2016 (Rev. 6)

7707 Fire

ALARM SIGNAL INPUTS/ZONES PORTS Ethernet for configuration E.O.L. type zone inputs 4 individually programmable REMOTE ANNUNCIATOR Optional 7794A AES-IntelliPro for AES Model 7740

Modem IIe and Modem IIIa2 COMPATIBLE RECEIVERS 7705i AES-MultiNet Receiver UL 864 10th Edition CONFIGURATION INTERFACE Web browser capable device ULC S559-04 1st Edition accessible via smartphone, tablet,

ENCLOSURE MATERIAL

VISUAL INDICATORS

(ALM, Trouble, Tx, Rx, WA)

2 x 20 alphanumeric characte

Steel with paint finish

FINISH COLOR

Front panel LCD

backlit display)

Receiving Centres and Systems CURRENT CONSUMPTION Standby w/ charged backup battery TROUBLE OUTPUT-ACK DELAY/ANTENNA CUT Standby + charging backup battery Form C relay, fail secure, rated 24V POWER OUTPUT 2 or 5 Watts

DC 1A resistive, unsupervised RESET BUTTON 32 to 120°F (0 to 49°C)

MG ELECTRONIC SALES MGT1640 DC SOURCES (includes FACP) 24V DC Regulated Power Supply RELATIVE HUMIDITY 1.9 A max current 0 to 93%, non-condensing BACKUP BATTERY

gel cell, size based on subscriber from 10-12 Ah

Contact Us

For pricing and availability or to learn more about IntelliNet 2.0, please call your local

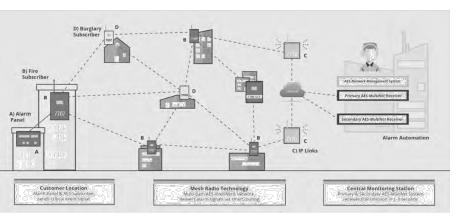
AES Sales Representative at (800) 237-6387 or email sales@aes-corp.com.

www.aes-corp.com AES Corporation | 285 Newbury Street | Peabody, MA 01960 United States Enhanced Wireless Fire Alarm Monitoring

Powered by AES enhanced mesh radio technology, IntelliNet 2.0 7707 Fire Subscribers are next generation universal wireless communicators that provide advanced security protection for any new or existing alarm nonitoring network. The AES Model 7707 is ideal for commercial fire applications. With the AES*-IntelliPro* full data module option, they are the ideal drop-in replacement for Plain Old Telephone Service (POTS) lines.

The red metal enclosure comes with a key lock and front panel LCD backlit display with intuitive view that provides an instant visual of the subscriber status. The user friendly GUI makes it easy to program AES subscriber units via a smartphone, laptop, tablet, or integrated Universal Serial Bus (USB)—without the need for special cables or having to use a handheld programmer. Additional knockouts make it easier to mount for faster installation.

IntelliNet 2.0 Private Wireless Mesh Radio Network



The *IntelliNet* 2.0 Fire Subscriber has an 8 Zone modular design for expansion with normal and reverse polarity, POTS and DACT interfaces with an option for the 7794A AES-IntelliPro full data module add-on accessory board. AES subscribers' intelligent software automatically detects new hardware and devices to reduce installation time.

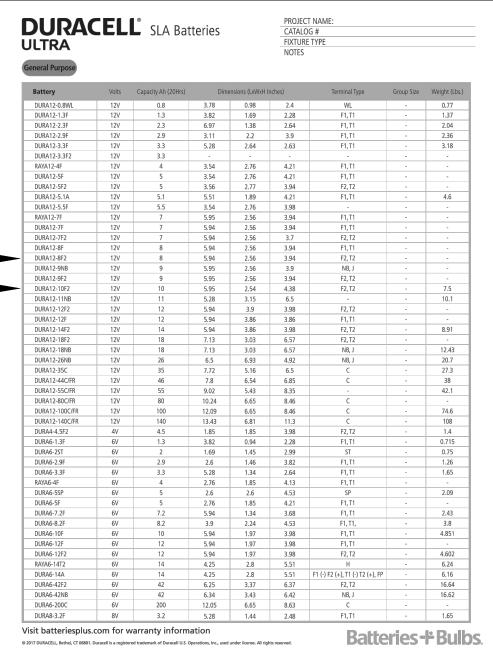
An AES certified WiFi accessory allows seamless wireless connectivity for configuration and programming. A will not work with 2.0 units. A FACP Power Supply Adapter is required for certain configurations when using flexible and the configuration of the configurpower options. The forward compatible design allows for feature add-ons, engineered to adapt seamlessly with future software upgrades as technology advances. *IntelliNet* 2.0 allows configuration cloning for faster

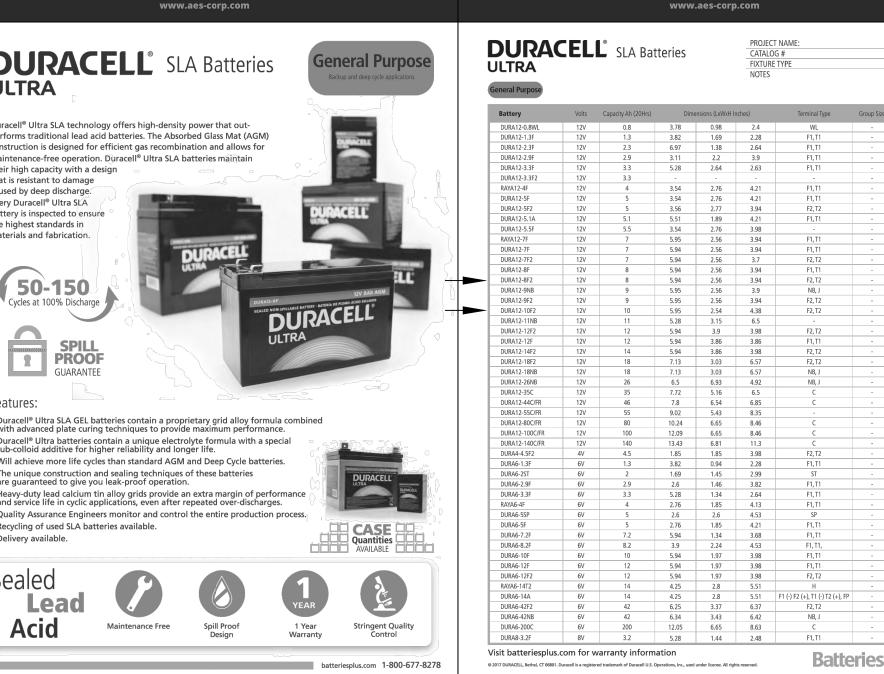
The AES 7707 was designed with quick configuration and installation in mind to make it easier for field technicians to get in, out, and on to the next install.

Visit our Fire Marshal Resources web page for official NFPA and UL Listings: aes-corp.com/products/fire/fire-marshal-resources

www.aes-corp.com

www.aes-corp.com **DURACELL** SLA Batteries eneral Purpos ULTRA Duracell® Ultra SLA technology offers high-density power that outperforms traditional lead acid batteries. The Absorbed Glass Mat (AGM) construction is designed for efficient gas recombination and allows for maintenance-free operation. Duracell® Ultra SLA batteries maintain that is resistant to damage caused by deep discharge Every Duracell® Ultra SLA the highest standards in materials and fabrication. • Duracell® Ultra SLA GEL batteries contain a proprietary grid alloy formula combined with advanced plate curing techniques to provide maximum perform Duracell® Ultra batteries contain a unique electrolyte formula with a special • Will achieve more life cycles than standard AGM and Deep Cycle batteries The unique construction and sealing techniques of these batteries are guaranteed to give you leak-proof operation. Heavy-duty lead calcium tin alloy grids provide an extra margin of performance and service life in cyclic applications, even after repeated over-discharges. • Quality Assurance Engineers monitor and control the entire production process. • Recycling of used SLA batteries available. Delivery available.









PRODUCT DATA SHEETS

Z

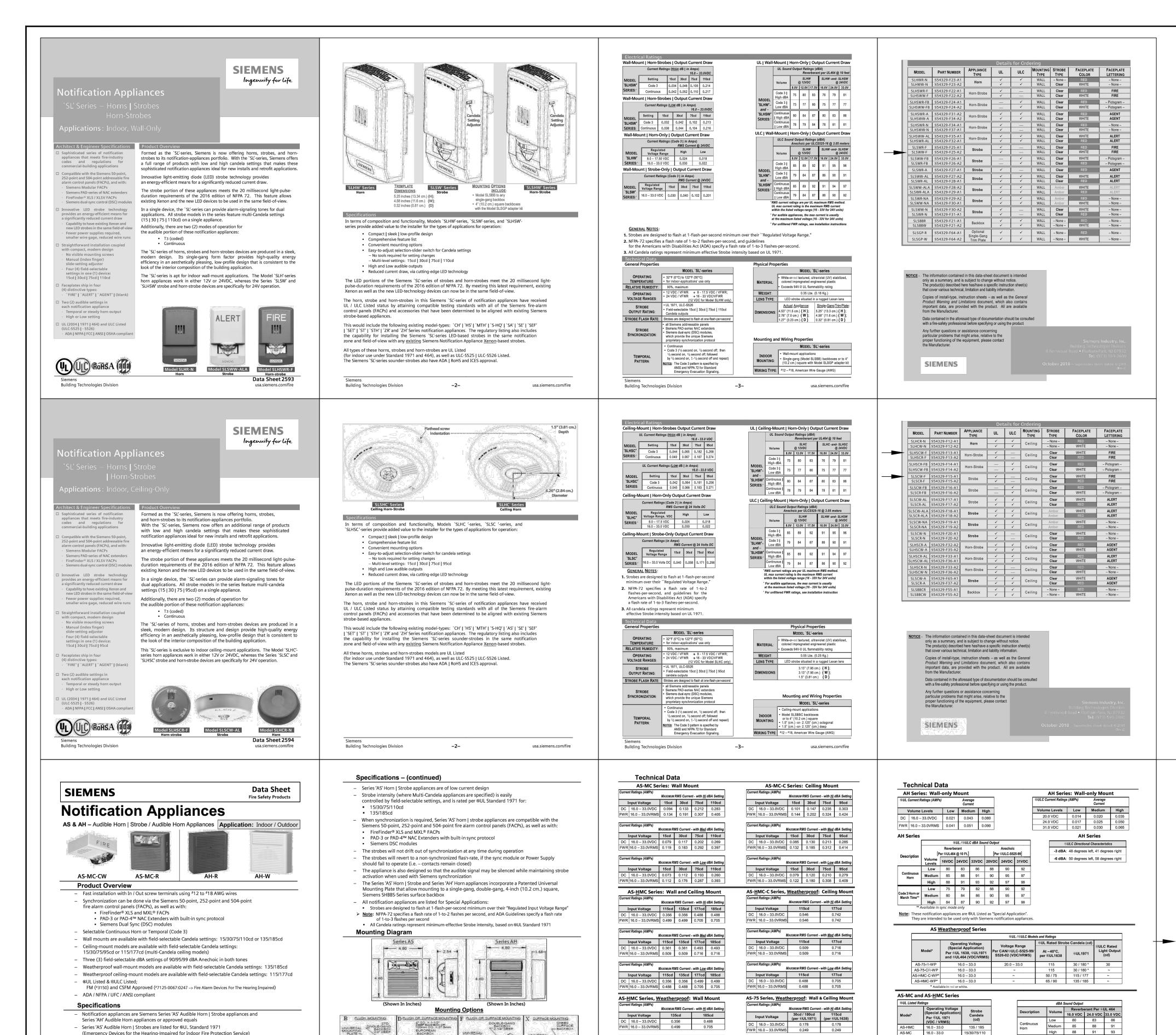
DESIGNER: JEF MARQUEZ ISSUE DATE: | 8/20/21

SHEET: **PRODUCT** DATA SHEETS

FIRE ALARM

PROJECT #: FA21120

FA901



Current Ratings (AMPs)

 Current Ratings (AMPs)

 Input Voltage
 135cd
 185cd

 DC
 16.0 - 33.0VDC
 0.361
 0.493

 FWR
 16.0 - 33.0VRMS
 0.509
 0.716

Current Ratings (AMPs)

SIEMENS Industry, Inc.

#6-32 SCREW

1 1 1 SCREW 1 1 1 SCREW

MAXIMUM NUMBER OF CONDUCTORS
AMOSTIS MIGHIS MIGHE MIGHE AMOSTIS MIGHIS MIGHE MIGHT MIGHE M

SIEMENS Industry, Inc.

MAXIMUM RMS Current - with <u>Low</u> dBA Setting

Current Ratings (AMPs)

Current Ratings (AMPs)

MAXIMUM RMS Current - with Med dBA Setting

Notes: 1. Strobe will produce 1 flash-per-second over the Input Voltage range.

SIEMENS Industry, Inc.

2. This strobe/horn model meets the required light distribution patterns defined in ©UL 1971

The effect of shipping and storage temperatures will not adversely affect the performance

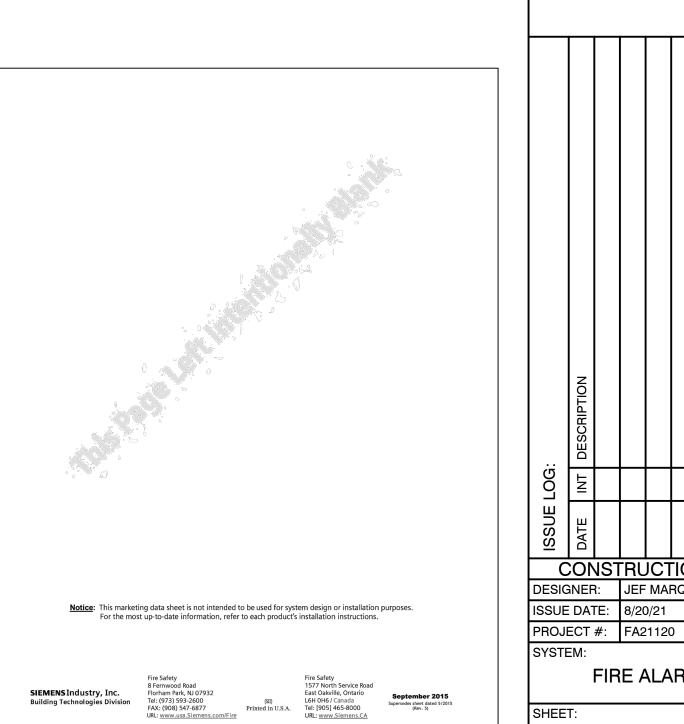
of the appliance when it is stored in the original cartons, and is not subjected to either misuse or improper handling of shipment.

3. This model is ©UL Listed for indoor use with a temperature range of *32°F to *120°F (0°C to *49°C) and maximum humidity of 93% \pm 2% RH.

Input Voltage 30cd / 180cd (per ©UL1971) (per ©UL1638)

 DC
 16.0 – 33.0VDC
 0.164
 0.164

 FWR
 16.0 – 33.0VRMS
 0.239
 0.239



Details for Ordering — (Including Mounting Options & Agency Approvals)

AS Horn | Strobe: Multi-Candela, Red

AS Horn | Strobe: Multi-Candela, White

AS Horn | Strobe: Hi Multi-Candela, Red

YES AS Horn | Strobe: Multi-Candela Ceiling, Re-

YES AS Horn | Strobe: Multi-Candela Ceiling, White /

AS Horn | Strobe: Hi Multi-Candela Ceiling

AS Horn | Strobe: Hi Multi-Candela Wall

AS Horn | Strobe: Hi Multi-Candela Wall

AS Horn | Strobe: Hi Multi-Candela, White

YES AS Horn | Strobe: Hi Multi-Candela Ceiling, Red A,B,D,E,F,G,J,N,R,X

Ceiling, White

Weatherproof, Red

Weatherproof, White

I, GG, HH

I, GG, HH

I, GG, HH

I, GG, HH

*= Refer to data sheet

Agencylisted/approved=> ✓

#: 2585 for detailed

Model Number Mount Mount

AS-HMC-CW 500-636009 - YES AS Horn | Strobe: Hi Multi-Candela

AS-75-CR-WP 500-636015 - YES AS Horn | Strobe: 75CD Ceiling Weatherproof, Re

1. Models AS-75-WP and AS-75-R-WP do not provide a 75cd setting

- The indoor usage is also rated 180cd when measured directly on axis

2. The Listed Candela ratings are as follows:

■ 30cd, per @UL1971, indoor

SIEMENS Industry, Inc.

S YES AH Horn, Red S YES AH Horn, White

AS-HMC- 500-636181 – YES AS Horn | Strobe: Hi Multi-Candela Ceiling

AS-HMC-W 500-636013

AS-MC-CR 500-636006

AS-MC-CW 500-636007

AS-HMC-CR 500-636008

CW-WP 500-636182

AS-HMC-R-WP 500-636183 YES

500-636184 YES



 \square <u>Z</u> RIVEF 'ALLUI 'CEL# \Box

CONSTRUCTION SET DESIGNER: JEF MARQUEZ ISSUE DATE: 8/20/21

FIRE ALARM

PRODUCT

DATA SHEETS

FA902

SIEMENS Industry, Inc. Building Technologies Division

PRODUCT DATA SHEETS

AS / AH Series Notification Appliances 2578

B

(Emergency Devices for the Hearing-Impaired for Indoor Fire Protection Service)

the Siemens Fire Alarm Control Panel (FACP)

Series 'AH' Audible Horns are ®UL Listed under Standard 464 (Fire Protective Signaling)

All inputs are compatible with standard reverse polarity supervision of circuit wiring by

Anechoic levels, as well as a choice of continuous or temporal (Code 3) audible outputs

The audible portion of each appliance has a minimum of three (3) field-selectable settings for dBA

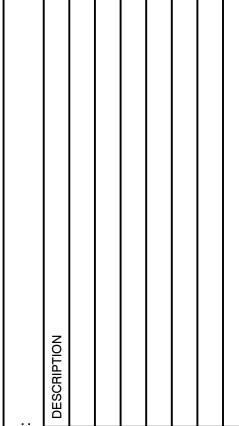
Regulated Input Voltage Range, and incorporate a Xenon flashtube enclosed in a rugged Lexan® lens

The strobe portion of each appliance produces a flash rate of one (1) flash-per-second over the



 \square

RIVEF 'ALLU 'CEL# \Box



CONSTRUCTION SET DESIGNER: JEF MARQUEZ ISSUE DATE: | 8/20/21 PROJECT #: FA21120

FIRE ALARM

SHEET:

PRODUCT DATA SHEETS

FA903

921 incorporates an optical sensor using a light electronically programming and testing the detector prior to attering detection principle. The device utilizes For proper operation of the field-device programmer / test provides highly stable and accurate smoke unit, the technician selects the accessory's program mode and enters the desired address. In turn, Model 8720 / DPL urther, Model OP921 uses state-of-the-art automatically sets and verifies the address, as well as tests roprocessor circuitry with error check; detector selfthe detector. When in the 'test' mode, Model 8720 / DPU will Field-Device Programmer / Test Unit address or other stored data, allowing technicians to determine if the detector is operating properly. Model OP921 is compatible with the Siemens field Model 8720 / DPU operates on AC power or rechargeable vice programmer / test unit (Model 8720 / DPU), batteries, providing flexibility and convenience i nich is a compact, portable, menu-driven accessory electronically programming and testing detectors programming and testing equipment from practically any

Cerberus™ PRO **Fire Safety & Security Products**

easily and reliably.

Answers for infrastructure

SIEMENS

self-wiping contacts for increased reliability. The Model DB-11 base can be used with the optional Model LK-11 head. Model DB-11 has decorative plugs to cover the outer-Model OP921 may be installed on the same initiating circuit ith the Siemens Model 'H'-series detectors [when used with the Cerberus PRO FACPs] -

 Model HFP-11
 Model 'HMG-series manual stations
 Model 'HTRI'-series interfaces
 Model HCP output-control devices
 Model 'HZM'-series of addressable,
 conventional zone modules **Application Data**

Installation of Model OP921 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. Model OP921 is polarity insensitive, which can greatly reduce installation and debugging time.

Mechanical Protection Guard:

Cerberus™ PRO

Air Velocity: 0 – 4,000 ft. / min (0-20m / sec)

Standby Current (max.): 250µA, max. (average) Maximum Spacing: 30-foot centers (900 sq. ft.), per NFPA 72 **Detector Weight:** 0.317 lbs. (0.144 kg.) ®UL Listed / ®ULC Listed

SIEMENS Cerberus™ PRO

NOTICE — The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The devices described here have specific instruction sheets that crower various technical, limitation and liability information.

 Model DPU programs and verifies address and tests functionality of each device Electronic-address programming is easier, more efficient and more dependable Comes in single-action (Model HMS-S) and double-action (Model HMS-D) stations
 Model HMS-D

> **Product Overview** Models HMS-S and HMS-D intelligent manual fire address programming and supervision. Each Model HMS-series manual fire-alarm box achieves the state of an 'intelligent-initiating device' by incorporating custom microcomputer-chip technology with sophisticated, bi-directional communication capabilities with the FACP. Specifications durable, molded polycarbonate material that is matte finished in red with raised white lettering. The

SIEMENS

HMS-Series

Shock-and-vibration resistant

Reset with Allen Key

panel (FACP)

Two-wire operation

Surface or semi-flush installation

No break rods necessar

Models HMS-D, HMS-S

• Pull-down lever is down, until manually reset

Dynamic supervision to the fire-alarm control

Polarity insensitive via SureWire™ technolog

FM, CSFM & NYC Fire Dept. Approved

when operated – locks into position; indicating the manual fire-alarm box has been activated. The pull down lever remains down / in the 'locked position, until the fire-alarm box is manually reset. The manual fire alarm box can only be reset by opening the hinged housing cover with an Allen key; followed by closing and locking the cover.

Intelligent Initiating Devices

ARCHITECT AND ENGINEER SPECIFICATIONS

FIRE

HMS Series Intelligent Initiating Devices 6306

Data Sheet

Fire Safety & Security Products

Model HMS-S

Models HMS-S and HMS-D operate with Siemens

memory - identification information as well as

Innovative technology from Siemens - Fire Safety

ire-alarm boxes to be programmed via the Device

makes programming and testing of a manual fire-

The programmer / tester eliminates the need for

mechanical-addressing mechanisms of a device

because Model DPU electronically sets the address

of the manual fire-alarm box into its microcompute

corrosion and other conditions that can compromise

or even deteriorate mechanical-addressing

alarm box device faster, easier and more dependable

Programmer / Test Unit (Model DPU), Model DPU is a

manual fire-alarm box has the capacity of storing — in

Specifications — (continued)

Models HMS-S and HMS-D are fitted with screv

terminals for connection to an addressable circu

and can be either surface or semi-flush mounted.

The Model HMS-series manual fire-alarm boxes

circuit with all 'H'-series detectors, interfaces or

LOCKING

BACKPLATE

Mounting Diagram

addressable, conventional zone modules.

HINGED TO

BACKPLATE

derive their power, communicate information and receive commands over a single pair of wires.

Details for Ordering

Electrical Ratings

Current Draw (Active or Standby) — 1.5mA

SIEMENS Industry, Inc. SIEMENS Industry, Inc. Cerberus™ PRO

housings (Models FDBZ492 and FDBZ492-HR).

directed away from the photodiode and scattered

The smoke chamber is designed to manage light

received by the photodiode:

through the smoke chamber in a controlled pattern

dissipation and extraneous reflections from dust particle or other non-smoke, 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

The visible LED flashes green every 10 seconds to

indicate communication with the FACP, and to notify Model OP921 has passed its self-test. Should Model

A quick visual inspection is sufficient to indicate the

information is required, a printed report can be

provided from the compatible FACP, indicating the

status and settings assigned to each individual detector When Model OP921 moves to *Alarm* mode, the detector

will flash red and continue flashing until the system is

reset at the FACP. At that same time, any user-defined

of flashing any one (1) of three (3) distinct colors:

stem-alarm functions programmed into the system

yellow, or red. During each flash interval, the

microprocessor-based detector monitors the following

OP921 sense a fault or failure within its system, the LEI

condition of Model OP921 at any time. If more detailed

Siemens Industry, Inc. — Building Technologies Div. 8 Fernwood Road • Florham Park, NJ 07932 Tel: (973) 593-2600 • Fax: (908) 547-6877 Web: www.USA.Siemens.com/Cerberus-PRO Information contained in these documents product. For further information or assistance Building Technologies Division SII – Fire Safety [Printed in U.S.A.]

March 2013 — Supersedes sheet dated 2/201

PRODUCT DATA SHEETS

Photoelectric Smoke Detector