177-179 STATE ST FIRE ALARM SYSTEM

SITE

177-179 STATE STREET 177 STATE STREET PORTLAND, ME 04101

OWNER

ROBERT ARMITAGE 666A CONGRESS ST PORTLAND, ME 04101

INSTALLER

T.A. NAPOLITANO, INC P.O. BOX 2301 SOUTH PORTLAND, ME 04116

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Sheet Title
COVER SHEET
GENERAL INFORMATION
RISER DIAGRAM
CALCULATIONS AND SCHEDULE
WIRING TYPICALS



Safer. Smarter. Tyco.™

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30 THOMAS DRIVE WESTBROOK, ME 04092

PHONE: 207-842-6440 SERVICE: 207-842-6440 FAX: 207-842-6439 Safer. Smarter. Tyco.⁷⁷⁷

DISTRICT - 147

30 THOMAS DRIVE
WESTBROOK, ME 04092

PHONE: 207-842-6440

MARK DATE CAD CHK DESCRIPTION

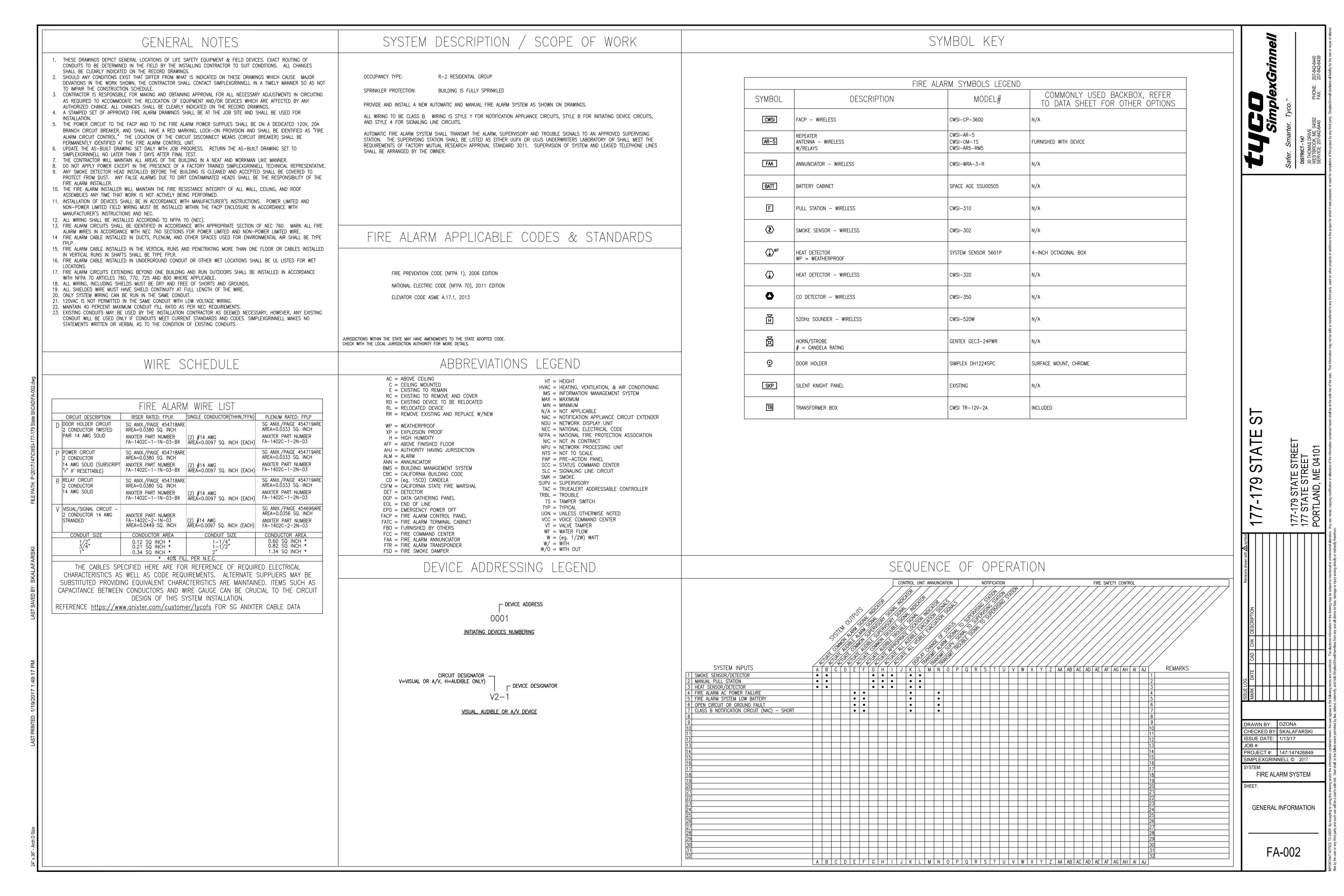
DRAWN BY: DZONA
CHECKED BY: SKALAFARSKI
ISSUE DATE: 1/13/17
JOB #:
PROJECT #: 147:147426849

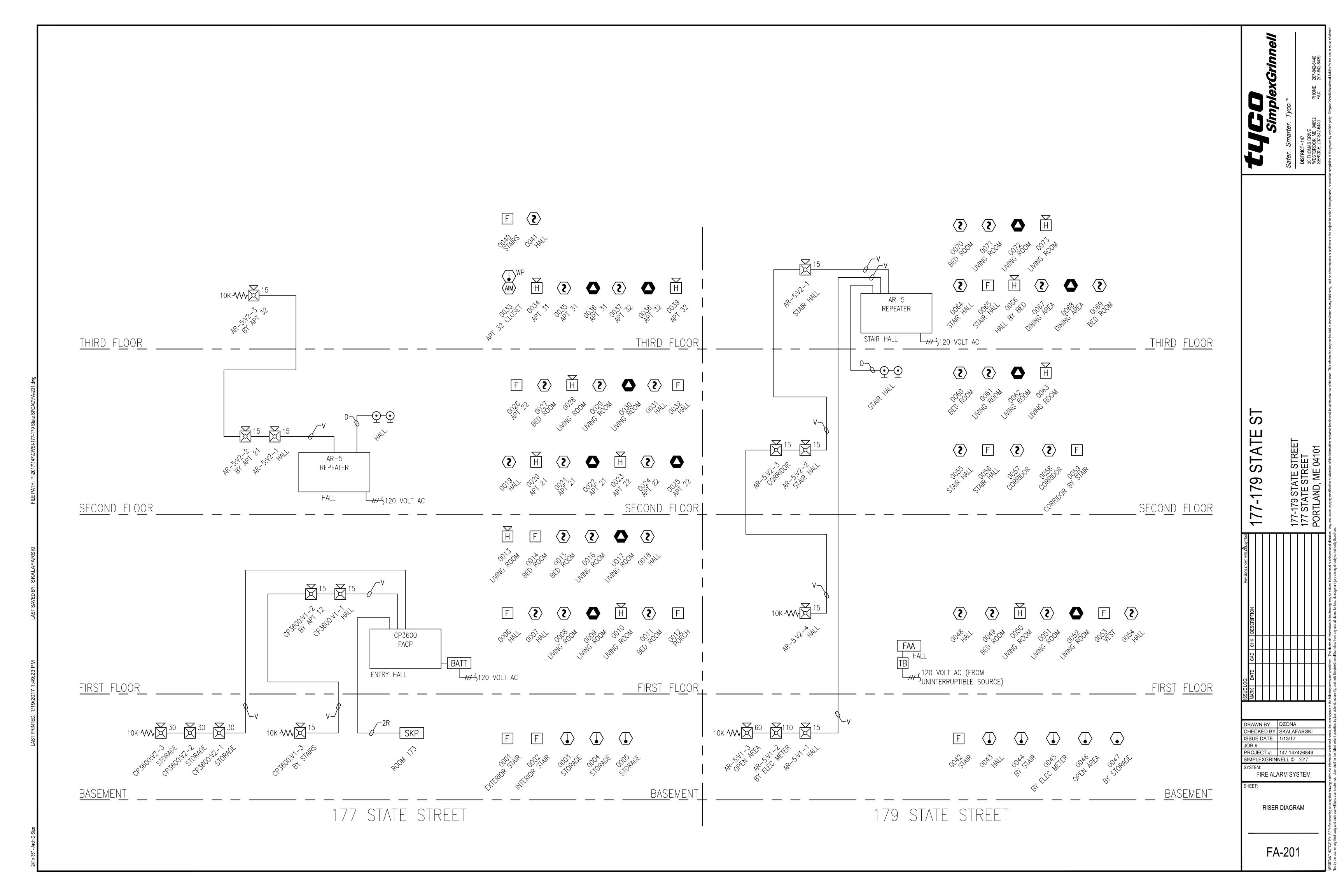
SYSTEM: FIRE ALARM SYSTEM

SHEET:

COVER SHEET

FA-001





* Additional Current Draw Included Below With Device Addresses Used

1. 2-wire detector alarm current is included in the alarm current of the Initiating Device Circuit.

	Standby		Alarm
Battery Calculations	Current		Current
Control Panel Card Power	0.030		0.180
Power For External Peripheral Devices	0.00000		0.30600
	0.030	< Totals>	0.486
Additional Battery Capacity Required 0%	0.000		0.000
Standby Time = 24 Hrs	0.720	Standby Ah	
Alarm Time = 5 Mins.	0.041	Alarm Ah	
Standby + Alarm =	0.761	<u> </u>	
Minimum Battery Required BA-12V-4AHS	0.913	20% Safety Margin	

CWS1 CP-3600 NAC VOLTAGE DROPS											GEC3-24WR	
Setting												
WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius Device Type												
Supv. Current												
											0.4000	
										Alarm Current	0.1020	
									Alarm Cu	rrent @ 23 Volts	0.1020 0.1020	
	Plan	Dist. (D)	Wire	Wire Res.	Total	V. Drop	Volt	% Volt	Alarm Cu Min Device			
NOTIFICATION CIRCUIT DESCRIPTION	Plan Ckt.	Dist. (D) Feet	Wire Gauge	Wire Res. / Ft. (R)	Total Alarm (A)	V. Drop (A*2D*R)	Volt @ End	% Volt Drop		rrent @ 23 Volts		
NOTIFICATION CIRCUIT DESCRIPTION 177 - BASEMENT CKT		, ,		/ Ft. (R)	Alarm (A)	'			Min Device	rrent @ 23 Volts Max		

			Standby	Total	Alarm	Total	
Module	Qty	Description	Current	Standby	Current	Alarm	
Panel Equipment							
CP-3600	1	CWSI WIRELESS CONTROL FACP	0.100000	0.100000	0.250	0.250000	
			Total Panel Stby	0.100000	Total Panel Alarm	0.250000	
Mult-Candela Strobe	s (Select	Candella Rating)					
GEC3-24WR	3	GENTEX HORN STROBE 15cd	0.000000	0.000000	0.077	0.23100	
			Total Periph Stby	0.000	Total Periph Alarm	0.231	
			Total Standby Amps	0.100	Total Alarm Amps	0.481	

* Additional Current Draw Included Below With Device Addresses Used

1. 2—wire detector alarm current is included in the alarm current of the Initiating Device Circuit.

	Standby		Alarm
Battery Calculations	Current		Current
Control Panel Card Power	0.100		0.250
Power For External Peripheral Devices	0.00000		0.23100
	0.100	< Totals>	0.481
Additional Battery Capacity Required 0%	0.000		0.000
Standby Time = 24 Hrs	2.400	Standby Ah	
Alarm Time = $\frac{1}{5}$ Mins.	0.040	Alarm Ah	
Standby + Alarm =	2.440		
Minimum Battery Required BA-12V-7AHS	2.928	20% Safety Margin	

CWS1 CP-3600 NAC VOLTAGE DROPS													
Setting													
WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius Device Type													
Supv. Current													
	Alarm Current												
	Alarm Current © 23 Volts												
	Plan	Dist. (D)	Wire	Wire Res.	Total	V. Drop	Volt	% Volt	Min Device	Max			
			Gauge	/ [1 /[]	Alarm (A)	(A*2D*R)	@ End	Drop	Voltage	Distance			
NOTIFICATION CIRCUIT DESCRIPTION	Ckt.	Feet	oduge	/ Ft. (R)	Aluliii (A)	(11 20 11)							
NOTIFICATION CIRCUIT DESCRIPTION 177 — FIRST FLOOR/BASEMENT CKT	Ckt. CP3600 V1-1	200		0.0031	0.231		19.179	20.09%	16vdc	2462 Ft.	3		

					Standby	Total	Alarm	Total
Module	Qty		Description		Current	Standby	Current	Alarm
anel Equipment								
AR-5	1	CWSI WIRELESS REPEATER			0.030000	0.030000	0.180	0.180000
					Total Panel Stby	0.030000	Total Panel Alarm	0.180000
Mult-Candela Strobes	(Select	Candella Rating)						
GEC3-24WR	5	GENTEX HORN STROBE		15cd	0.000000	0.000000	0.077	0.385000
GEC3-24WR	1	GENTEX HORN STROBE		60cd	0.000000	0.000000	0.161	0.161000
GEC3-24WR	1	GENTEX HORN STROBE		110cd	0.000000	0.000000	0.256	0.256000
					Total Periph Stby	0.000	Total Periph Alarm	0.802
					Total Standby Amps	0.030	Total Alarm Amps	0.982

* Additional Current Draw Included Below With Device Addresses Used

1. 2—wire detector alarm current is included in the alarm current of the Initiating Device Circuit.

	Standby		Alarm
Battery Calculations	Current		Current
Control Panel Card Power	0.030		0.180
Power For External Peripheral Devices	0.00000		0.80200
	0.030	< Totals>	0.982
Additional Battery Capacity Required 0%	0.000		0.000
Standby Time = 24 Hrs	0.720	Standby Ah	
Alarm Time = 5 Mins.	0.082	Alarm Ah	
Standby + Alarm =	0.802		
Minimum Battery Required BA-12V-4AHS	0.962	20% Safety Margin	

CWS1 CP-3600 NAC VOLTAGE DROPS										PID	GEC3-24WR	GEC3-24WR	GEC3-24WR
	15cd	60cd	110cd										
WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONA	MC A/V	MC A/V	MC A/V										
Supv. Current												0.0000	0.0000
Alarm Current												0.1610	0.2560
									Alarm Cu	ırrent @ 23 Volts	0.0770	0.1610	0.2560
	Plan	Dist. (D)	Wire	Wire Res.	Total	V. Drop	Volt	% Volt	Min Device	Max			
NOTIFICATION CIRCUIT DESCRIPTION	Ckt.	Feet	Gauge	/ Ft. (R)	Alarm (A)	(A*2D*R)	@ End	Drop	Voltage	Distance			
179 - BASEMENT CKT	AR-5 V1-1	300	1 4 ga	0.0031	0.494	0.947	18.553	22.70%	16vdc	1152 Ft.	1	1	1
179 - FIRST/SECOND/THIRD FLOOR CKT	AR-5 V1-2	150	1 4 ga	0.0031	0.308	0.334	19.166	20.14%	16vdc	1843 Ft.	4		

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ISSUE DATE: 1/13/17
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FIRE ALARM SYSTEM

EET:

CALCULATIONS AND SCHEDULES

FA-601

The smoke detector includes a tamper-resistant feature that prevents removal from the mounting base without the use of a tool. To engage the tamper-resistant feature, cut the small plastic tab located on the mounting base (Figure 2), and then install the detector. To remove the detector from the base once it has been made tamper resistant, use a small screwdriver to depress the square tamper release tab, located on the skirt of the mounting base, and turn the detector counterclockwise.

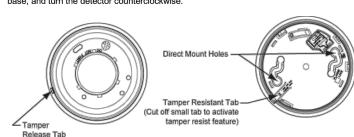


Figure 2 Tamper Resistant Feature

1. Make sure the battery is firmly installed in the smoke detector battery compartment. The unit must be secured tightly to the wall, so as to not be dislodged. . Test the unit after any service, battery change or as often as local or national codes

Do NOT Install Detectors in the Following Areas: • In or near areas where particles of combustion are normally present such as kitchens; in garages; near furnaces, hot water heaters, or gas space heaters.

In very cold or very hot areas.

In wet or excessively humid areas, or next to bathrooms with showers. In dusty, dirty, or insect-infested areas. Near fresh air inlets or returns or excessively drafty areas. P/N IM-300 Rev. G

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To measure the detector sensitivity use System Sensor model SENS-RDR Infrared Sensitivity Reader tool. Refer to the instruction manual of the model SENS-RDR (D100-98-

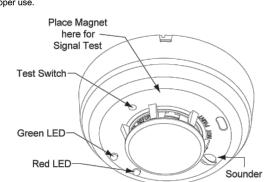


Figure 3 LEDS, Sounder, Test Switch and Signal Test Locations

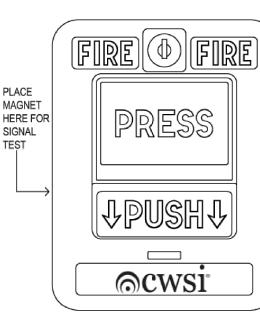
The test must be performed while the smoke detector is held in its intended mounting location. Install a battery in the smoke detector. Initiate the test by placing a strong magnet on the smoke detector housing at the location shown in figure 3. The model 301/302 piezo sounder will beep once. A delay of up to 15 seconds will occur followed by either one or two beeps. One beep indicates an unacceptable location and two beeps indicate an acceptable location. If only one beep is heard then relocate the model 301/302 mounting position closer to the nearest repeater or control panel and perform the test again. Continue this procedure until 2 beeps are achieved. Do not mount the smoke detector unless 2 beeps are heard when performing 5 consecutive signal tests. This test **must** be performed before and after transmitter installation. Note: A CWSI model AR-3(A), AR-5 repeater or CWSI FACP must be powered up, installed and enrolled before running this test.

Test Switch Functions:This switch has multiple functions and is located in an opening on the detector housing as shown in figure 3. To activate the switch insert a small screwdriver or allen wrench (0.18" max.) into the test switch opening; push and hold for 5 seconds. Pressing this switch will not cause an alarm at the control panel.

The functions of the Test Switch are: 1. Test the functionality of the detectors circuitry when pressed while the detector is in 2. Silence the low battery chirp for 12 hours if pressed during low battery. 3. Silence the detector sounder for 5 minutes if pressed anytime while the sounder is turned on in the temporal pattern.

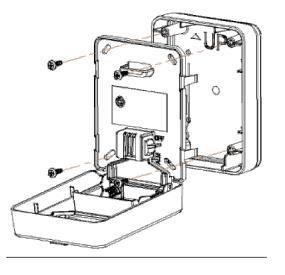
The model 301/302 smoke detector tests for a low battery condition once every 65 minutes. The battery voltage has to be at or below 2.7V nominally for two consecutive low battery tests before a low battery trouble condition is transmitted. When a low battery is detected P/N IM-300 Rev. G © 2015 Tyco Fire & Security GmbH

MOUNT PULL STATION IN A VERTICAL POSITION ONLY



P/N IM-310 Rev. E

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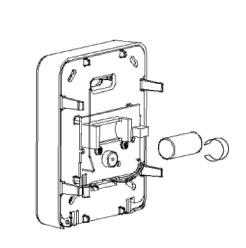
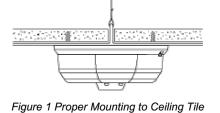
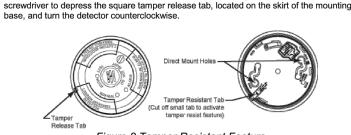


Figure 2

P/N IM-310 Rev. E © 2015 Tyco Fire & Security GmbH



The CO detector includes a tamper-resistant feature that prevents removal from the mounting base without the use of a tool. To engage the tamper-resistant feature, cut the small plastic tab located on the mounting base (Figure 2), and then install the detector. To remove the detector from the base once it has been made tamper resistant, use a small



1. Make sure the battery is firmly installed in the CO detector battery compartment. The detector must be secured tightly to the wall, so as to not be dislodged. 3. Test the detector after any service, battery change or as often as local or national codes

Do NOT Install Detectors in the Following Areas: In an area where cross-interference gasses are present. Cross interference gasses include but are not limited to: Methane, Butane, Heptane, Ethyl Acetate, Isopropyl Alcohol, Carbon Dioxide, Ammonia, Ethanol, Toluene, Trichloroethane and Acetone.

 Within 10 feet of a flame fueled appliance. In any area that is out of the detectors environmental specification range. In wet or excessively humid areas, or next to bathrooms with showers. In dusty, dirty, or insect-infested areas. Near fresh air inlets or returns or excessively drafty areas. Consult NFPA 720, the local Authority Having Jurisdiction (AHJ), and/or applicable codes for specific information regarding the spacing and placement of CO detectors. Refer to technical bulletin part number IM-350-TB-RevA for more information.

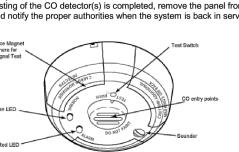
P/N IM-350 Rev.D © 2015 Tyco Fire & Security GmbH Alarm/Gas Testing
Detectors must be tested after installation and following maintenance or battery replacement. NOTE: Before testing, notify the proper authorities that maintenance is being performed and the system will be temporarily out of service. Place the control panel in test to prevent any unwanted alarms. Perform the test below to properly test the 350 detector. If a detector fails any of the tests below, it should be cleaned as outlined in the Maintenance section. If the detector still fails, it should be replaced.

Warning: This test will cause an alarm signal to be transmitted. This test will only function if the detector is operating within its proper sensitivity limits and is not in a trouble condition. The purpose of this test is to check the functionality of the sensor and circuitry. The model 350 has a functional gas test mode which can be used to verify the detector's ability to sense carbon monoxide gas. To perform the alarm/functional gas test, follow the

Locate the recessed detector test switch located on the detector cover (Figure 3). With a small screwdriver, depress and hold the recessed "Test" switch for approximately 2 seconds. The detector will temporarily sound in alarm and the

red LED will illuminate. . An Alarm signal will be annunciated at the control panel. Within a few seconds the green LED will start to blink rapidly indicating the detector is in functional test mode awaiting gas entry. 5. Spray a very small amount of **Solo brand C6 canned CO** into one of the 3 small gas entry holes located on the top center of the detector (figure 3). Upon successful gas entry and if functioning properly, the detector will alarm by sounding in a Temporal 4 pattern with the red LED blinking.

CO gas has cleared. If gas entry is unsuccessful, the test will time out after 27 seconds. When testing of the CO detector(s) is completed, remove the panel from test mode and notify the proper authorities when the system is back in service.



The alarm condition at the detector will time out in 20 to 60 seconds or when the

Figure 3 LEDS, Sounder, Test Switch and Signal Test Locations

The test must be performed while the CO detector is held in its intended mounting location Install a battery in the CO detector. Initiate the test by placing a strong magnet on the CO detector housing at the location shown in figure 3. The piezo sounder on the rf transmitter inside the detector will beep once. A delay of up to 15 seconds will occur followed by either

The first sounder of interconnected units must be a Master.

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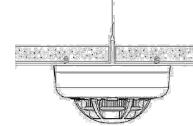


Figure 1 Proper Mounting to Ceiling Tile he smoke detector includes a tamper-resistant feature that prevents removal from the mounting base without the use of a tool. To engage the tamper-resistant feature, cut the small plastic tab located on the mounting base (Figure 2), and then install the detector. o remove the detector from the base once it has been made tamper resistant, insert a small screwdriver in hole located near the alignment mark, and turn the detector

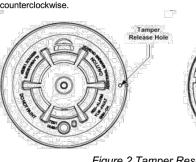
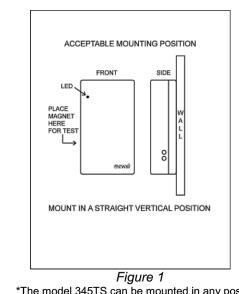


Figure 2 Tamper Resistant Feature 2. The unit must be secured tightly to the wall, so as to not be dislodged. 3. Test the unit after any service, changing the batteries or as often as local or national Do NOT Install Detectors in the Following Areas: • In or near areas where particles of combustion are normally present such as kitchens; in garages; near furnaces, hot water heaters, or gas space heaters.

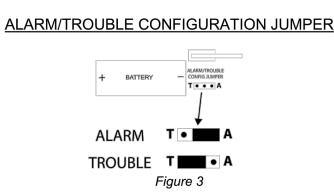
• In wet or excessively humid areas, or next to bathrooms with showers. In dusty, dirty, or insect-infested areas. Near fresh air inlets or returns or excessively drafty areas. Consult NFPA 72, the local Authority Having Jurisdiction (AHJ), and/or applicable codes for specific information regarding the spacing and placement of smoke detectors. Refer to technical bulletin part number IM-300-TB-RevB for more information.

P/N CWSI-IM-320 Rev. B / APD0610 B160225 © 2016 Tyco Fire & Security GmbH

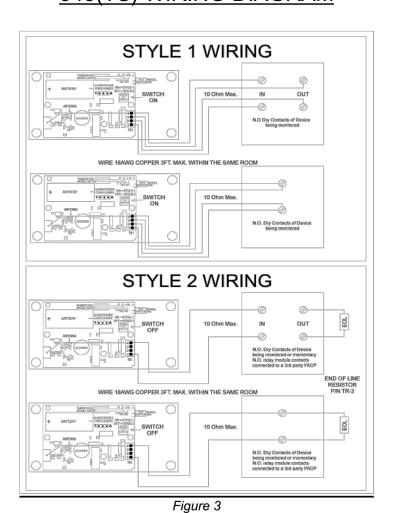
345 MOUNTING*



*The model 345TS can be mounted in any position.

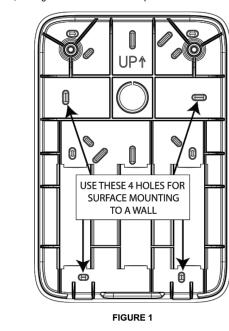


P/N IM-345-Rev.B © 2014 Tyco Fire & Security GmbH 345(TS) WIRING DIAGRAM



P/N IM-345-Rev.B © 2014 Tyco Fire & Security GmbH Perform sound, RF signal and alarm tests as specified in this manual after installation is

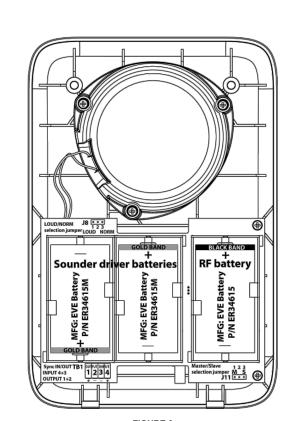
Figure 1



The 520/MH notification devices incorporate a method to allow the installer to perform a 5 second temporal 3 db sound level test. The test can be performed without activating an alarm on the programmed zone(s). To initiate the test hold a magnet up to the face of the appliance at the test position shown in figure 4 for approximately 5 seconds. There is a small dimple in the plastic on the cover to help find the test position. When activated, the test will produce the temporal 3 pattern for 5 seconds to allow a db sound output measurement to be obtained at the desired location. This test can be performed without the unit being enrolled into a panel or in a network making for a good tool for pre-installation

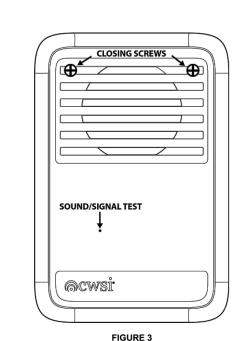
Loud/Norm jumper (520 only): The model 520 has an optional loud setting of the sound level output. The J8 jumper can be selected for either norm or loud sound dBA output. The loud setting will increase the sound output approximately 1.5 dBA from the norm setting. This additional sound outpu level can be used where marginal or inacceptable sound dBA readings are obtained in an of adding additional sounders or relocation. For the best battery life always leave the J8

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The test must be performed while the 520/MH is held in its intended mounting location. The unit must be powered up and in communication with a repeater or control panel. Initiate the test by momentarily placing a strong magnet on the 520/MH front cover at the location shown in figure 3. The sounder will beep once. A delay of up to 15 seconds will occur followed by either one or two beeps. One beep indicates an unacceptable location and two beeps indicate an acceptable location. If only one beep is heard then relocate the model 520/MH mounting position closer to the nearest repeater or control panel and perform the test again. Continue this procedure until 2 beeps are achieved. Do not mount the appliance detector unless 2 beeps are heard when performing 5 consecutive signal tests. This test must be performed before and after product installation. The maximum repeater depth between any 520/MH and any alarm device is 22. This depth insures 10 second alarm to horn activation. Note: The 520/MH must be in communication with a survey repeater, enrolled repeater or control panel to perform the test. Refer to the repeater and/or control

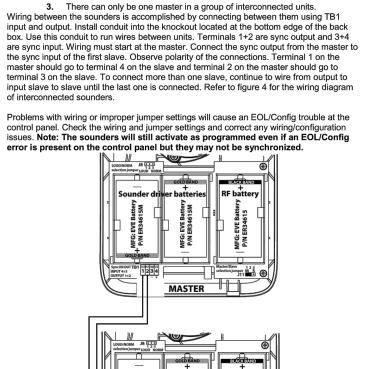
P/N IM-520/MH Rev.C © 2014 Tyco Fire & Security GmbH



Programming:
The 520/MH must be enrolled into the CWSI Fire Alarm Control Panel before it can be programmed to activate its sounder on receipt of an alarm. The Model 520/MH will not respond to alarms unless it is enrolled into a compatible control panel and programmed to activate. The 520/MH can be programmed with up to 3 different zones and various silencing options. The temporal 3 pattern is to be used for evacuation only. Refer to the control panel installation instructions for further details on programming

he 520/MH sounders can be synchronized by interconnecting them with a single wire pair he wiring should be in conduit and contained within one room. Note: Interconnection of models 520 and MH is not recommended as synchronization is not guaranteed between different models. When connected together the sounders will synchronize their temporal 3 and 4*(520 only) patterns when multiple sounders are activated. To achieve synchronization the sounders must be both correctly configured as master and slave(s) and wired together. Master and slave selection is made by moving jumper J11 to either the "M" (master) or "S" (slave) position. The first sounder in line must be configured as a Master since it will sync all of the other connected units. The sounders connected to the master must be configured as slaves to accept sync pulses from the master. The J11 Master/Slave umper position must be chosen prior to installing the RF battery as it is only read on power up. Proper selection of the J11 jumper is also monitored for the following rules:

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1. Single standalone sounders must be configured as a Master.

P/N IM-520/MH Rev.C

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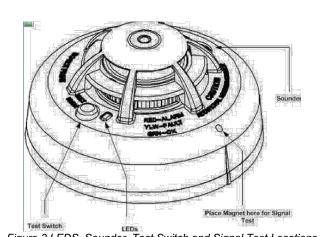


Figure 3 LEDS, Sounder, Test Switch and Signal Test Locations

The test must be performed while the smoke detector is held in its intended mounting location. Install batteries in the smoke detector. Initiate the test by placing a strong magnet on the smoke detector housing at the location shown in figure 3. The model 325/320 piezo sounder will beep once. A delay of up to 15 seconds will occur followed by either one or two beeps. One beep indicates an unacceptable location and two beeps indicate an acceptable location. If only one beep is heard then relocate the model 325/320 mounting position closer to the nearest repeater or control panel and perform the test again. Continue this procedure until 2 beeps are achieved. Do not mount the smoke detector unless 2 beeps are heard when performing 5 consecutive signal tests. This test must be performed before and after transmitter installation. Note: A CWSI model AR-5 repeater or CP-3500D Control Panel must be powered up, installed and enrolled before running this test.

Test Switch Functions (325 Only):

This switch has multiple functions and is located on the detector housing as shown in figure 3. To activate the switch, push and hold for 5 seconds. Pressing this switch will not cause an alarm at the control panel.
The functions of the Test Switch are:

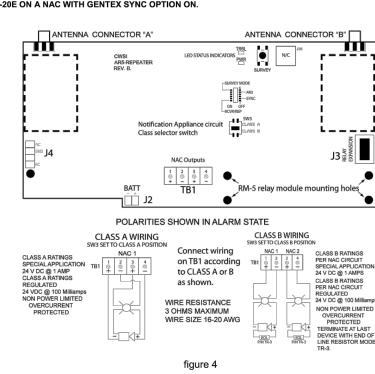
2. Silence the detector sounder for 5-10 minutes if pressed anytime while the sounder is turned on in the temporal pattern.

Low batteries:
The Wireless Smoke Heat Alarm is powered by 3 AAA Duracell Procell or 3 AAA Energizer E92 batteries (included). The detector regularly checks for low batteries. If low batteries are detected, the transmitter sends a low battery message to the control panel, which displays the detector's ID. In addition, the yellow LED of the detector will blink every 12 seconds. Be sure to replace all of the batteries with fresh ones.

P/N CWSI-IM-320 Rev. B / APD0610 B160225 © 2016 Tyco Fire & Security GmbH

figure 3

P/N IM-AR5 Rev.D © 2014 Tyco Fire & Security GmbH * UP TO 4 RELAYS CAN BE CONNECTED WITHOUT ANY NOTIFICATION APPLIANCES CONNECTED OR SUBSTITUTE 1 RELAY FOR 1 NOTIFICATION APPLIANCE IF USED TOGETHER. WHEN USING R-20E RELAYS THEY SHOULD BE CONNECTED DIRECTLY TO THE NAC OUTPUTS BEFORE THE SYNC MODULE. DO NOT USE THE R-20E ON A NAC WITH GENTEX SYNC OPTION ON.



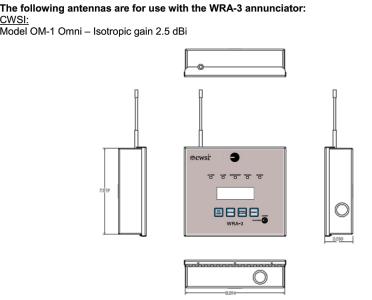
4.2.3 USB Jack J35 This connector is for factory use only. Refer to figure 4 for location.

Section 5 – Optional Model RB Relay Boxes

5.1 Description The RB relay box is an optional accessory for connection to the AR-5 repeater. It provides up to 40 normally open dry contact outputs. The number of relays corresponds to the model number of the unit for example RB-10 is a ten relay box. Relay boxes can be ordered in increments of ten relays. The relay box is connected to the AR-5 repeater with a cable run through conduit. The enclosure is the same as a repeater.

P/N IM-AR5 Rev.D © 2014 Tyco Fire & Security GmbH

Section 2 - Compatibility 2.1 Compatible Equipment and Accessories Refer to the Control Panel manual for complete compatibility information



Section 3 - Installation

3.1 Preparing the Installation Site A signal survey must be performed by a factory trained technician or authorized dealer prior to the installation of the WRA-3 annunciator. The signal survey determines an acceptable location to mount the WRA-3 in order to communicate with the repeaters and control panel. Refer to the Signal Survey section in this manual for the proper method to conduct a signal survey for this product.

During the survey, try to locate the WRA-3 annunciator close to available 120 Vac uninterruptible power. The WRA-3 is powered from CWSI model TR-12V-2A plug in transformer. The power connection must be installed in conduit. Warning: The WRA-3 annunciator input power is 12Vac from the secondary of the TR-12V-2A. Do not connect 120Vac directly to the WRA-3 or the unit

When connecting primary A/C power always follow: 1- National Fire and Electrical Codes (NFPA 72 and NFPA 70) 2- Local Electrical and Fire Code requirements P/N IM-WRA3 Rev. B © 2014 Tyco Fire & Security GmbH

3- Local AHJ (Authority Having Jurisdiction) requirements

3.2 Receiving and Unpacking the Equipment Upon receiving the equipment, the carton should be inspected for damage, which may have occurred during shipment. Each package should be checked against the packing slip for completeness. Differences should be reported to CWSI immediately. If any product is suspected of damage it should be checked for proper operation or returned to CWSI.

3.3 Installing the WRA-3 Annunciator

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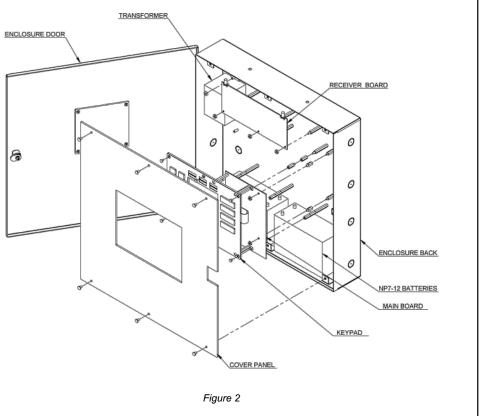
WARNING: This equipment must be professionally installed by factory trained personnel. Use of an antenna other than listed in the compatibility section of this manual may be harmful to persons, void FCC or damage the equipment. Always attach an OM-1 antenna to the sma connector prior to applying power, enrolling or conducting a signal survey with the WRA-3.

The WRA-3 annunciator must be enrolled into a control panel and programmed in order to function properly. Enrollment can only be accomplished with the WRA-3 within reception range of the control panel or an enrolled repeater. Follow the enrollment instructions in the control panel manual. After enrollment, it is recommended to hold the annunciator in the intended mounting location and verify a good signal survey prior to permanently mounting the unit. Upon enrollment and conducting a signal survey the unit can be mounted in its intended location. The following must be considered and or adhered to when mounting the unit. The maximum repeater depth between any annunciator and any device is 20. The panel must be included in the path between the annunciator and the furthest device when figuring the repeater depth. There is a limit of 8 annunciators per FACP.

1 – All wiring should comply with national and/or local electrical codes. Unless otherwise

specified, wire should be 18 gauge copper with 600 Volt insulation. Shielded wire is preferred. 2 - This unit is intended to be mounted in indoor dry areas. Avoid dusty, wet and corrosive locations. 3 – Provide adequate space surrounding the unit to allow for; a - The hinged cover to be completely opened for easy access to internal components and wiring. b - The connection of conduit to the desired cabinet location. - The attachment of the omni antenna to the antenna sma 4 – Avoid electrically noisy locations such as main electrical and transformer rooms, computer rooms, telephone switching rooms, etc. Unlock the WRA-3 cover and open the unit. Carefully verify that the unit is not damaged and the printed circuit board is secured in the enclosure. Hold the WRA-3 in its intended position, verify leveling then mark the location of the upper corner mounting keyholes. Using adequate mounting screws and anchors, secure the WRA-3 annunciator to the mounting surface. Be sure to install screws in the two lower mounting holes. Additionally the annunciator can be secured to a flush mount 4" gang box if desired using the 4 holes in the back box. WARNING: Make sure A/C supply is turned OFF prior to proceeding with A/C connection. The required supply to the TR-12V-2A primary is 120 VAC 60Hz 2 Amps. The supply is supervised by the WRA-3. Follow all applicable electrical codes. Install conduit from the WRA-3 to a Honeywell model 4165 transformer enclosure attached to a 120Vac

unswitched outlet located in the same room (Figure 1). Follow the instructions



Section 4 - System Programming

This section details system programming options including time/date, password, base code, device enrollment, NAC/Auxiliary/Relay activation and resetting, tandem detector activation and deactivation, device editing, and zone assignment.

4.1 Keypad Buttons and Menu Navigation

The buttons located in the area below the LCD are used for menu navigation and data entry. These include 4 Softkey, Up/Down/Left/Right, Enter and Back buttons. See figure 3 below for the location of P/N IM-C3K6 Rev. B © 2014 CWSI Tyco Fire & Security GmbH

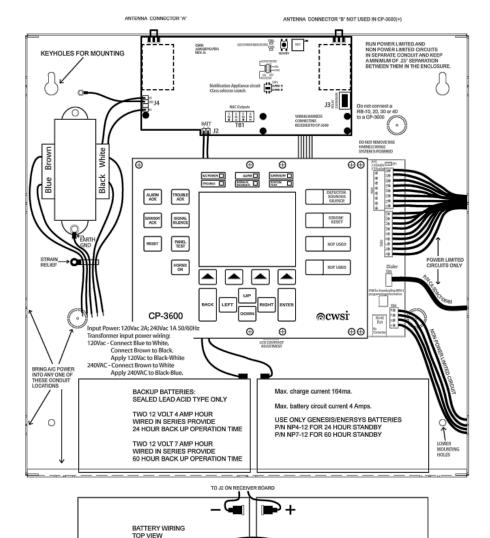


Figure 4

P/N IM-C3K6 Rev. B

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WIRING TYPICALS

FIRE ALARM SYSTEM

DRAWN BY: DZONA

SSUE DATE: 1/13/17

HECKED BY: SKALAFARSKI

PROJECT #: 147:147426849

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