

177-179 STATE ST FIRE ALARM SYSTEM

SITE

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

INSTALLER

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

OWNER

ROBERT ARMITAGE
666A CONGRESS ST
PORTLAND, ME 04101

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177-179 STATE ST

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ISSUE NO.	DATE	CAD	CHK	DESCRIPTION

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

SHEET:

COVER SHEET

FA-001

GENERAL NOTES

- 1. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT CONDITIONS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
2. SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT SIMPLEXGRINNELL IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE.
3. CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
4. A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION.
5. THE POWER CIRCUIT TO THE FACP AND TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER, AND SHALL HAVE A RED MARKING, LOCK-ON PROVISION AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
6. UPDATE THE AS-BUILT DRAWING SET DAILY WITH JOB PROGRESS. RETURN THE AS-BUILT DRAWING SET TO SIMPLEXGRINNELL NO LATER THAN 7 DAYS AFTER FINAL TEST.
7. THE CONTRACTOR WILL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMAN LIKE MANNER.
8. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED SIMPLEXGRINNELL TECHNICAL REPRESENTATIVE.
9. ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO DIRT CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM INSTALLER.
10. THE FIRE ALARM INSTALLER WILL MAINTAIN THE FIRE RESISTANCE INTEGRITY OF ALL WALL, CEILING, AND ROOF ASSEMBLIES ANY TIME THAT WORK IS NOT ACTIVELY BEING PERFORMED.
11. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND NEC.
12. ALL WIRING SHALL BE INSTALLED ACCORDING TO NFPA 70 (NEC).
13. FIRE ALARM CIRCUITS SHALL BE IDENTIFIED IN ACCORDANCE WITH APPROPRIATE SECTION OF NEC 760. MARK ALL FIRE ALARM WIRES IN ACCORDANCE WITH NEC 760 SECTIONS FOR POWER LIMITED AND NON-POWER LIMITED WIRE.
14. FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUM, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE TYPE FPLP.
15. FIRE ALARM CABLE INSTALLED IN THE VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL RUNS IN SHAFTS SHALL BE TYPE FPLR.
16. FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS.
17. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 770, 725 AND 800 WHERE APPLICABLE.
18. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
19. ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY AT FULL LENGTH OF THE WIRE.
20. ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
21. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
22. MAINTAIN 40 PERCENT MAXIMUM CONDUIT FILL RATIO AS PER NEC REQUIREMENTS.
23. EXISTING CONDUITS MAY BE USED BY THE INSTALLATION CONTRACTOR AS DEEMED NECESSARY, HOWEVER, ANY EXISTING CONDUIT WILL BE USED ONLY IF CONDUITS MEET CURRENT STANDARDS AND CODES. SIMPLEXGRINNELL MAKES NO STATEMENTS WRITTEN OR VERBAL AS TO THE CONDITION OF EXISTING CONDUITS.

SYSTEM DESCRIPTION / SCOPE OF WORK

OCCUPANCY TYPE: R-2 RESIDENTIAL GROUP
SPRINKLER PROTECTION: BUILDING IS FULLY SPRINKLED
PROVIDE AND INSTALL A NEW AUTOMATIC AND MANUAL FIRE ALARM SYSTEM AS SHOWN ON DRAWINGS.
ALL WIRING TO BE CLASS B. WIRING IS STYLE Y FOR NOTIFICATION APPLIANCE CIRCUITS, STYLE B FOR INITIATING DEVICE CIRCUITS, AND STYLE 4 FOR SIGNALING LINE CIRCUITS.
AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UL/IFC OR UL/US UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY THE OWNER.

SYMBOL KEY

FIRE ALARM SYMBOLS LEGEND table with columns: SYMBOL, DESCRIPTION, MODEL#, COMMONLY USED BACKBOX, REFER TO DATA SHEET FOR OTHER OPTIONS. Includes symbols for CWSI (Wireless), AR-5 (Repeater), FA (Annunciator), BATT (Battery Cabinet), F (Pull Station), SMOKE SENSOR, WP (Weatherproof), H (Heat Detector), CO (CO Detector), H (520Hz Sounder), HORN/STROBE, SKP (Silent Knight Panel), and TB (Transformer Box).

FIRE ALARM APPLICABLE CODES & STANDARDS

- FIRE PREVENTION CODE (NFPA 1), 2006 EDITION
NATIONAL ELECTRIC CODE (NFPA 70), 2011 EDITION
ELEVATOR CODE ASME A.17.1, 2013
JURISDICTIONS WITHIN THE STATE MAY HAVE AMENDMENTS TO THE STATE ADOPTED CODE. CHECK WITH THE LOCAL JURISDICTION AUTHORITY FOR MORE DETAILS.

WIRE SCHEDULE

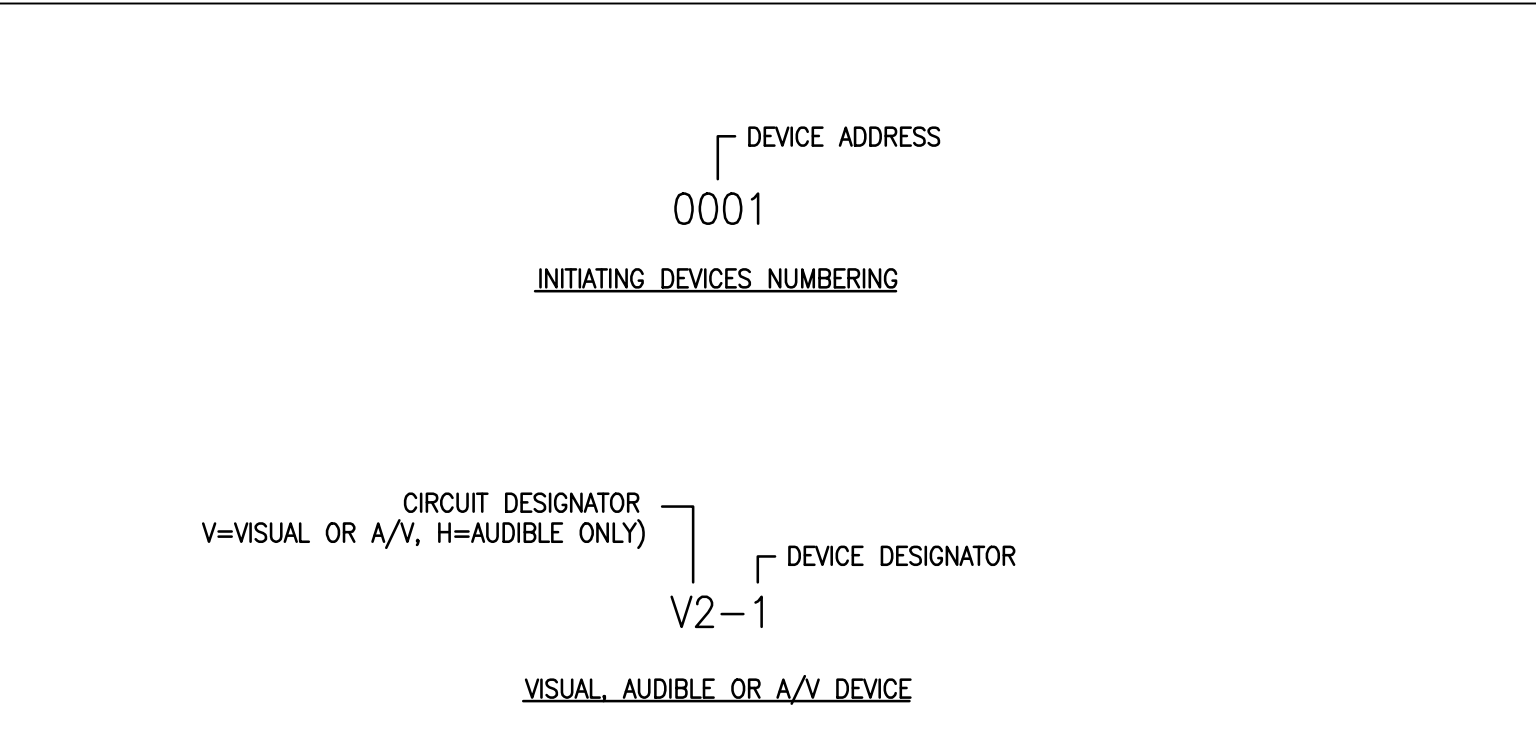
FIRE ALARM WIRE LIST table with columns: CIRCUIT DESCRIPTION, RISER RATED: FPLR, SINGLE CONDUCTOR (THHN,TFN), PLENUM RATED: FPLP. Lists various circuit types like Door Holder Circuit, Power Circuit, Relay Circuit, and Visual/Signal Circuit with their respective conductor specifications.

THE CABLES SPECIFIED HERE ARE FOR REFERENCE OF REQUIRED ELECTRICAL CHARACTERISTICS AS WELL AS CODE REQUIREMENTS. ALTERNATE SUPPLIERS MAY BE SUBSTITUTED PROVIDING EQUIVALENT CHARACTERISTICS ARE MAINTAINED. ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION.
REFERENCE https://www.anixter.com/customer/tycofs FOR SG ANIXTER CABLE DATA

ABBREVIATIONS LEGEND

- AC = ABOVE CEILING
C = CEILING MOUNTED
E = EXISTING TO REMAIN
RC = EXISTING TO REMOVE AND COVER
RD = EXISTING DEVICE TO BE RELOCATED
RL = RELOCATED DEVICE
RR = REMOVE EXISTING AND REPLACE W/NEW
HT = HEIGHT
HVAC = HEATING, VENTILATION, & AIR CONDITIONING
IMS = INFORMATION MANAGEMENT SYSTEM
MAX = MAXIMUM
MIN = MINIMUM
N/A = NOT APPLICABLE
NAC = NOTIFICATION APPLIANCE CIRCUIT EXTENDER
NDU = NETWORK DISPLAY UNIT
NEC = NATIONAL ELECTRICAL CODE
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION
NIC = NOT IN CONTRACT
NPU = NETWORK PROCESSING UNIT
NTS = NOT TO SCALE
PAP = PRE-ACTION PANEL
SCC = STATUS COMMAND CENTER
SLC = SIGNALING LINE CIRCUIT
SMK = SMOKE
SUPV = SUPERVISORY
TAC = TRUEALERT ADDRESSABLE CONTROLLER
TRBL = TROUBLE
TS = TAMPER SWITCH
TYP = TYPICAL
UON = UNLESS OTHERWISE NOTED
VCC = VOICE COMMAND CENTER
VT = VALVE TAMPER
WF = WATER FLOW
W = (eq. 1/2W) WATT
W/ = WITH
W/O = WITH OUT

DEVICE ADDRESSING LEGEND



SEQUENCE OF OPERATION

SEQUENCE OF OPERATION table with columns for SYSTEM INPUTS (A-J), CONTROL UNIT ANNUNCIATION (K-M), NOTIFICATION (N-O), FIRE SAFETY CONTROL (P-W), and REMARKS. Includes rows for Smoke Sensor/Detector, Manual Pull Station, Heat Sensor/Detector, Fire Alarm AC Power Failure, Fire Alarm System Low Battery, Open Circuit or Ground Fault, and Class B Notification Circuit (NAC) - Short.

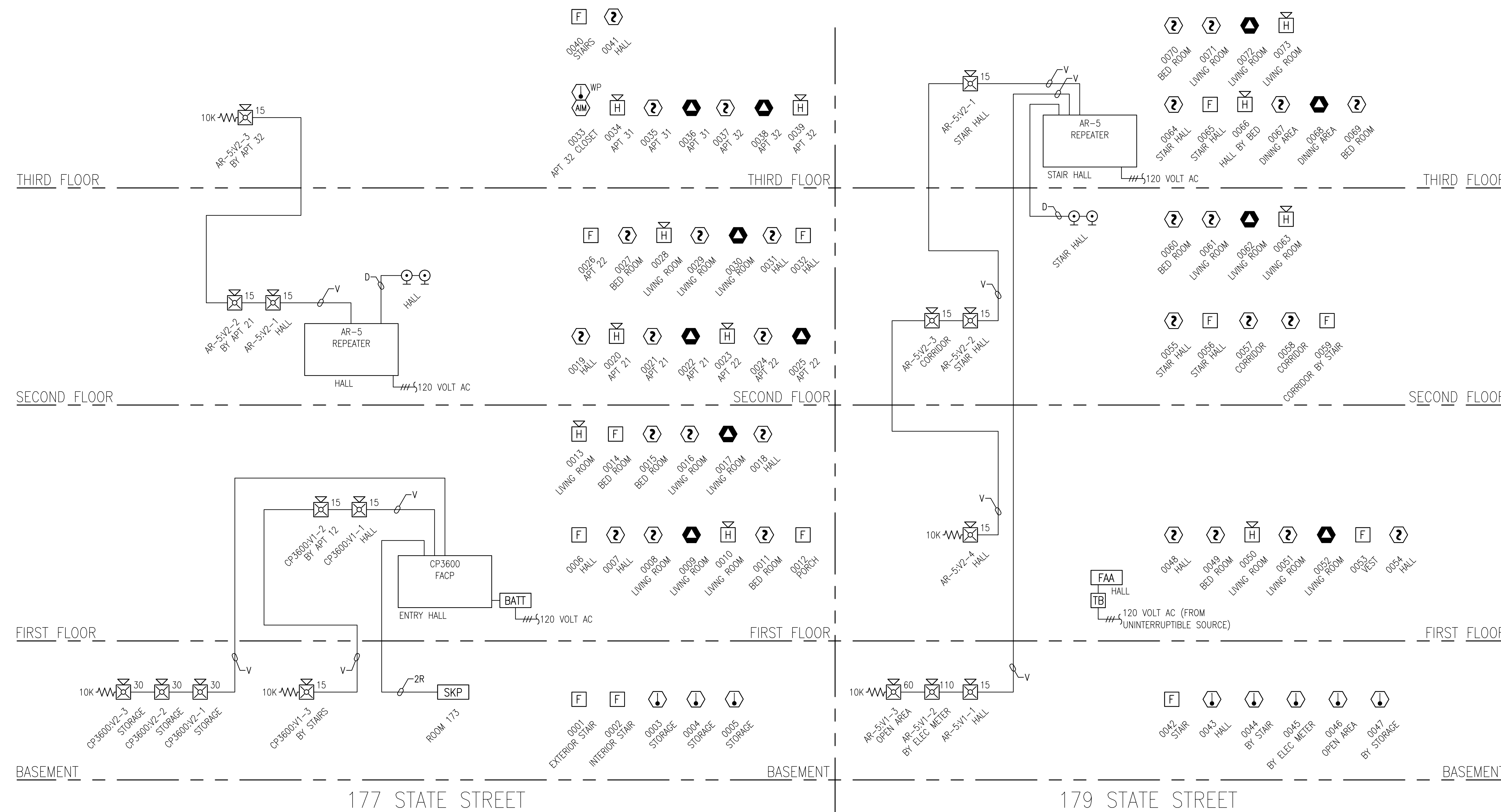
tyco SimplexGrinnell logo and contact information: Safer. Smarter. Tycco. DISTRICT - 147 WEST BUCKINGHAM WEST BUCKINGHAM, ME 04092 PHONE: 207-642-2440 FAX: 207-642-2439

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ISSUE LOG table with columns: ISSUE NO., DATE, CHK, DESCRIPTION. Includes a row for issue 1 dated 1/13/17.

GENERAL INFORMATION section containing: DRAWN BY: DZONA, CHECKED BY: SKALAFARSKI, ISSUE DATE: 1/13/17, PROJECT #: 147-147426849, SYSTEM: FIRE ALARM SYSTEM, SHEET: FA-002

24 x 36" ARCH D SIZE
LAST PRINTED: 1/19/2017 1:49:23 PM
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SYSTEM: FIRE ALARM SYSTEM
SHEET:
RISER DIAGRAM
FA-201

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177 -- AR-5 REPEATER BATTERY CALC

Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
AR-5	1	CWSI WIRELESS REPEATER	0.030000	0.030000	0.180	0.180000
Total Panel Sby			0.030000	0.030000	Total Panel Alarm	0.180000
Multi-Candela Strobes (Select Candela Rating)						
GEC3-24WR	3	GENTEX HORN STROBE	30cd	0.000000	0.102	0.306000
Total Periph Sby			0.000	0.000	Total Periph Alarm	0.306
Total Standby Amps			0.030	0.030	Total Alarm Amps	0.486

* 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.

Battery Calculations

	Standby Current	Alarm Current
Control Panel Card Power	0.030	0.180
Power For External Peripheral Devices	0.00000	0.00000
Additional Battery Capacity Required @	0.030	<-- Totals --> 0.486
Standby Time = 24 Hrs	0.000	0.000
Alarm Time = 5 Mins.	0.720	Standby Ah
	0.041	Alarm Ah
Standby + Alarm =	0.761	
Minimum Battery Required BA-12V-44HS	0.913	20% Safety Margin

CWS1 CP-3600 NAC VOLTAGE DROPS

WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius

NOTIFICATION CIRCUIT DESCRIPTION	Plan Ckt.	Dist. (Ft.)	Wire Gauge	Wire Res. / Ft. (Ω)	Total Alarm (A)	V. Drop (AP20MB)	Volt @ End	% Volt Drop	Min Device Voltage	Max Distance	Alarm Current @ 23 Volts	PID Setting	GEC3-24WR	Device Type	MC A/V	Supv. Current	Alarm Current	Alarm Current @ 23 Volts	
																			30cd
177 -- BASEMENT CKT	AR-5 V1-1	150	14ga	0.0031	0.562	0.568	18.932	21.12%	16vdc	1014 Ft.									
SPARE	AR-5 V1-2		14ga	0.0031	0.000	0.000	19.500	18.75%	16vdc	0 Ft.									

179 -- AR-5 REPEATER BATTERY CALC

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

Battery Calculations

	Standby Current	Alarm Current
Control Panel Card Power	0.030	0.180
Power For External Peripheral Devices	0.00000	0.00000
Additional Battery Capacity Required @	0.030	<-- Totals --> 0.882
Standby Time = 24 Hrs	0.000	0.000
Alarm Time = 5 Mins.	0.720	Standby Ah
	0.082	Alarm Ah
Standby + Alarm =	0.802	
Minimum Battery Required BA-12V-44HS	0.982	20% Safety Margin

CWS1 CP-3600 NAC VOLTAGE DROPS

WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius

NOTIFICATION CIRCUIT DESCRIPTION	Plan Ckt.	Dist. (Ft.)	Wire Gauge	Wire Res. / Ft. (Ω)	Total Alarm (A)	V. Drop (AP20MB)	Volt @ End	% Volt Drop	Min Device Voltage	Max Distance	Alarm Current @ 23 Volts	PID Setting	GEC3-24WR	Device Type	MC A/V	Supv. Current	Alarm Current	Alarm Current @ 23 Volts	
																			15cd
179 -- BASEMENT CKT	AR-5 V1-1	300	14ga	0.0031	0.494	0.347	18.553	22.70%	16vdc	1152 Ft.									
179 -- FIRST/SECOND/THIRD FLOOR CKT	AR-5 V1-2	150	14ga	0.0031	0.308	0.334	19.166	20.14%	16vdc	1843 Ft.									

177 -- CP-3600 BATTERY CALC

Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
CP-3600	1	CWSI WIRELESS CONTROL PAMP	0.100000	0.100000	0.250	0.250000
Total Panel Sby			0.100000	0.100000	Total Panel Alarm	0.250000
Multi-Candela Strobes (Select Candela Rating)						
GEC3-24WR	3	GENTEX HORN STROBE	15cd	0.000000	0.000000	0.077
Total Periph Sby			0.000	0.000	Total Periph Alarm	0.231
Total Standby Amps			0.100	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.

Battery Calculations

	Standby Current	Alarm Current
Control Panel Card Power	0.100	0.250
Power For External Peripheral Devices	0.00000	0.23100
Additional Battery Capacity Required @	0.100	<-- Totals --> 0.481
Standby Time = 24 Hrs	0.000	0.000
Alarm Time = 5 Mins.	2.400	Standby Ah
	0.040	Alarm Ah
Standby + Alarm =	2.440	
Minimum Battery Required BA-12V-74HS	2.928	20% Safety Margin

CWS1 CP-3600 NAC VOLTAGE DROPS

WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius

NOTIFICATION CIRCUIT DESCRIPTION	Plan Ckt.	Dist. (Ft.)	Wire Gauge	Wire Res. / Ft. (Ω)	Total Alarm (A)	V. Drop (AP20MB)	Volt @ End	% Volt Drop	Min Device Voltage	Max Distance	Alarm Current @ 23 Volts	PID Setting	GEC3-24WR	Device Type	MC A/V	Supv. Current	Alarm Current	Alarm Current @ 23 Volts	
																			15cd
177 -- FIRST FLOOR/BASEMENT CKT	CP3600 V1-1	200	14ga	0.0031	0.231	0.321	19.179	20.09%	16vdc	2462 Ft.									
SPARE	CP3600 V1-2		14ga	0.0031	0.000	0.000	19.500	18.75%	16vdc	0 Ft.									

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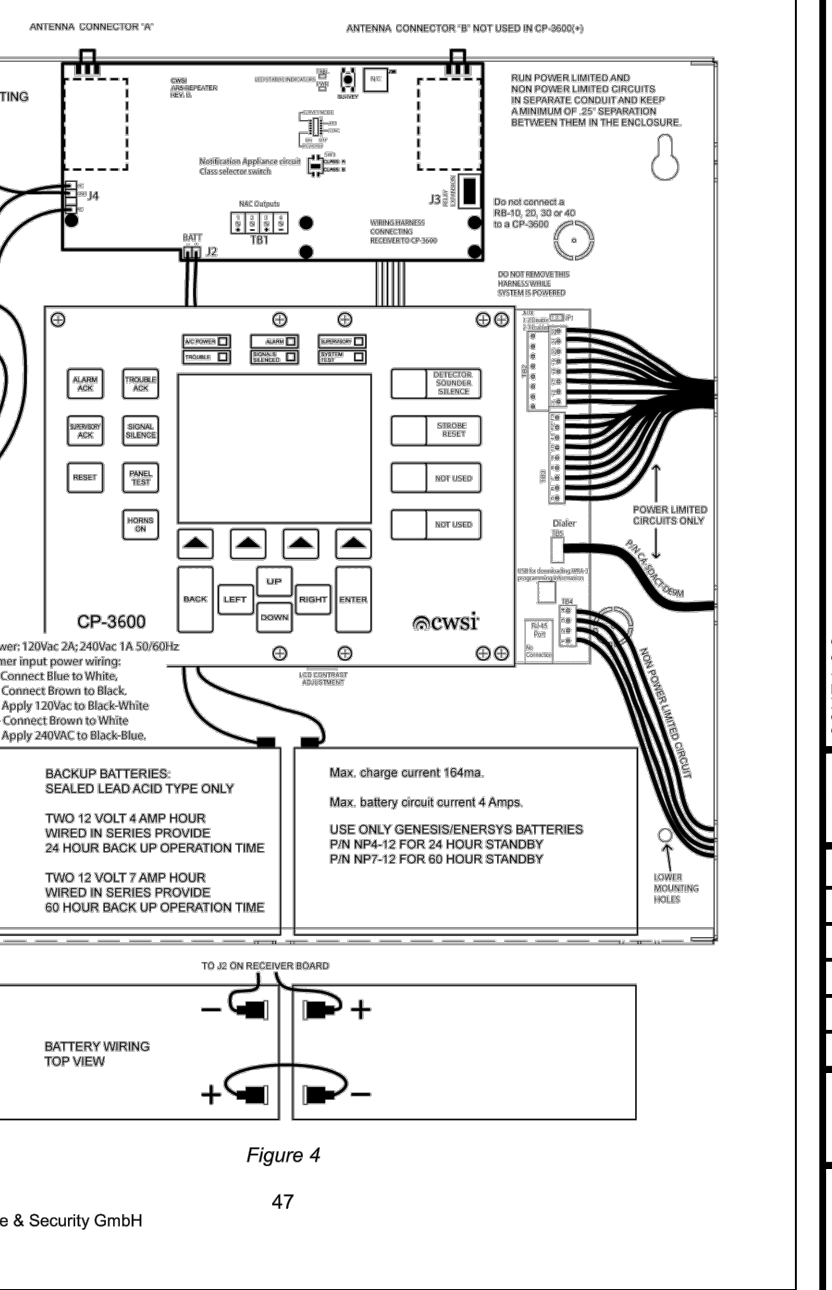
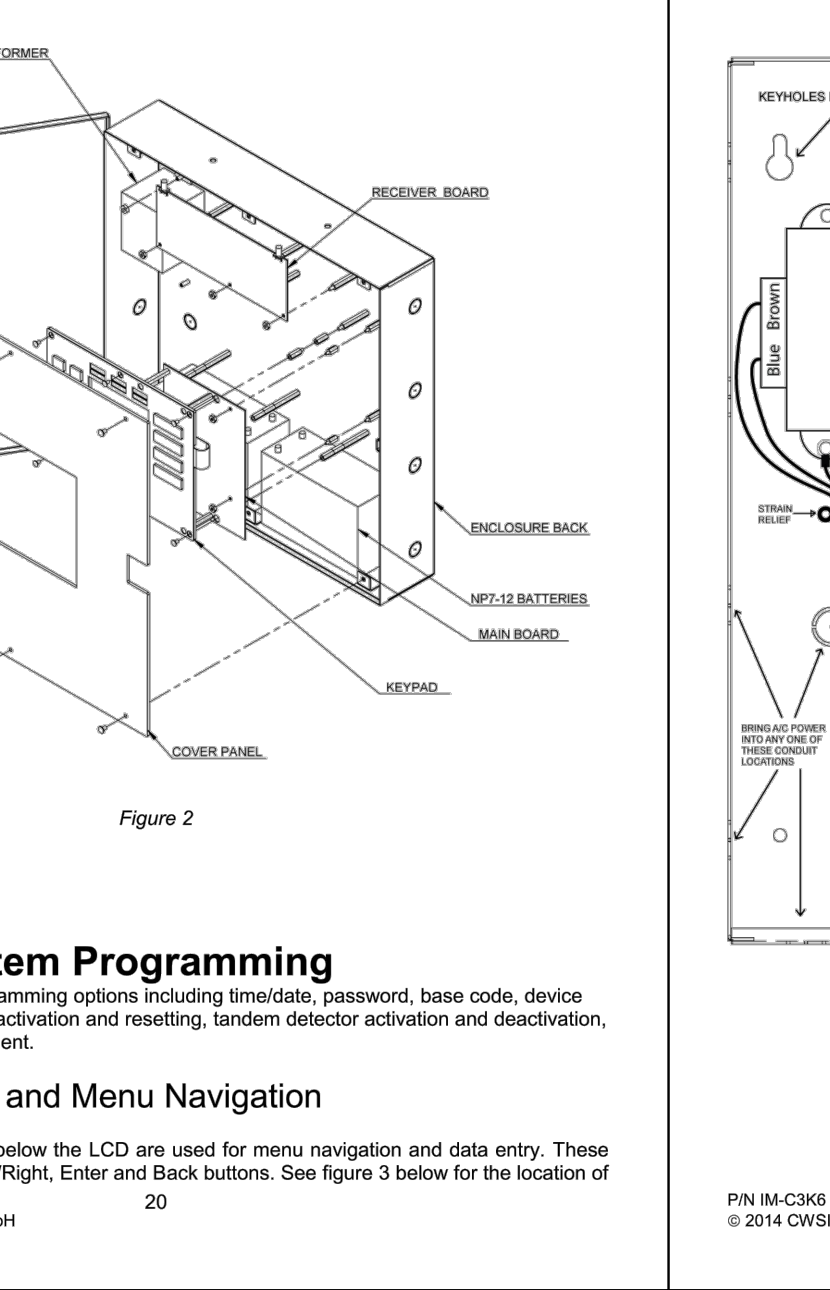
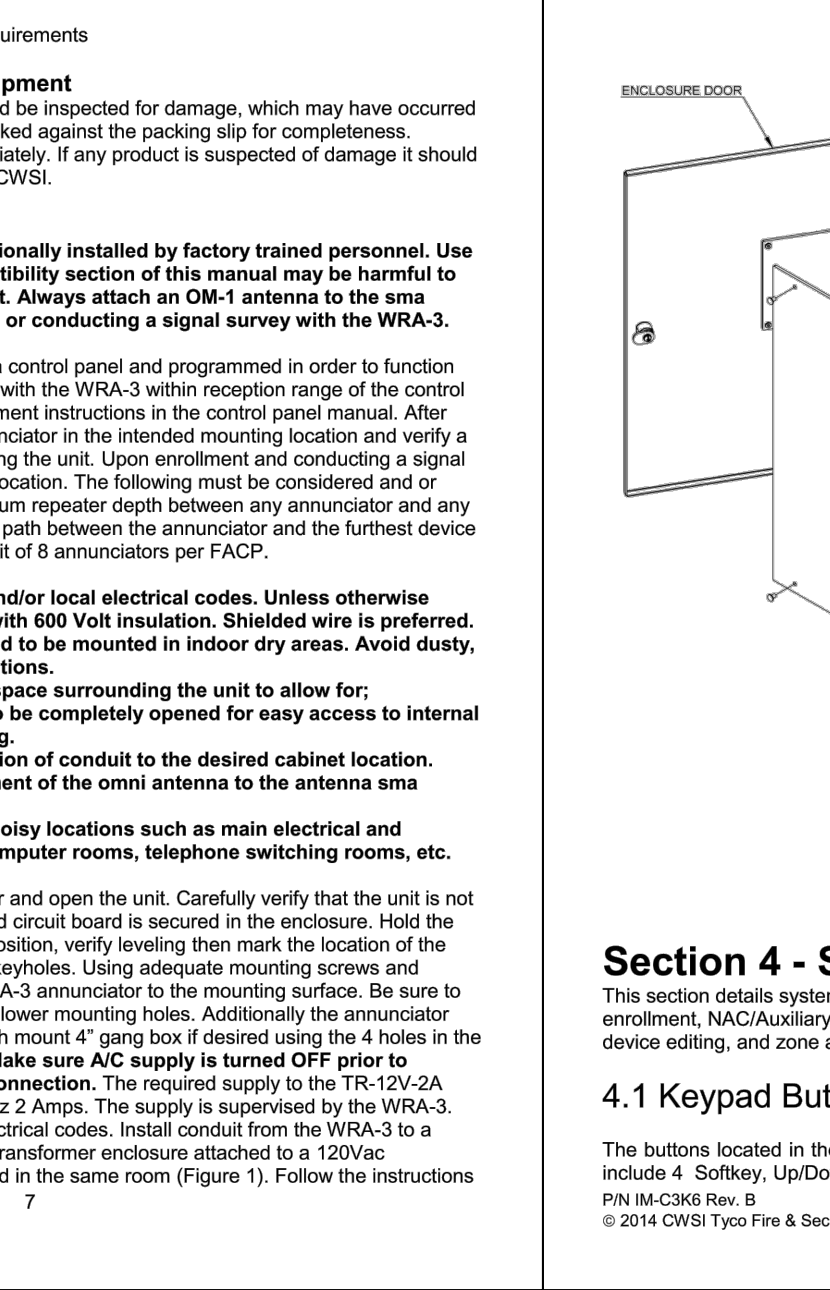
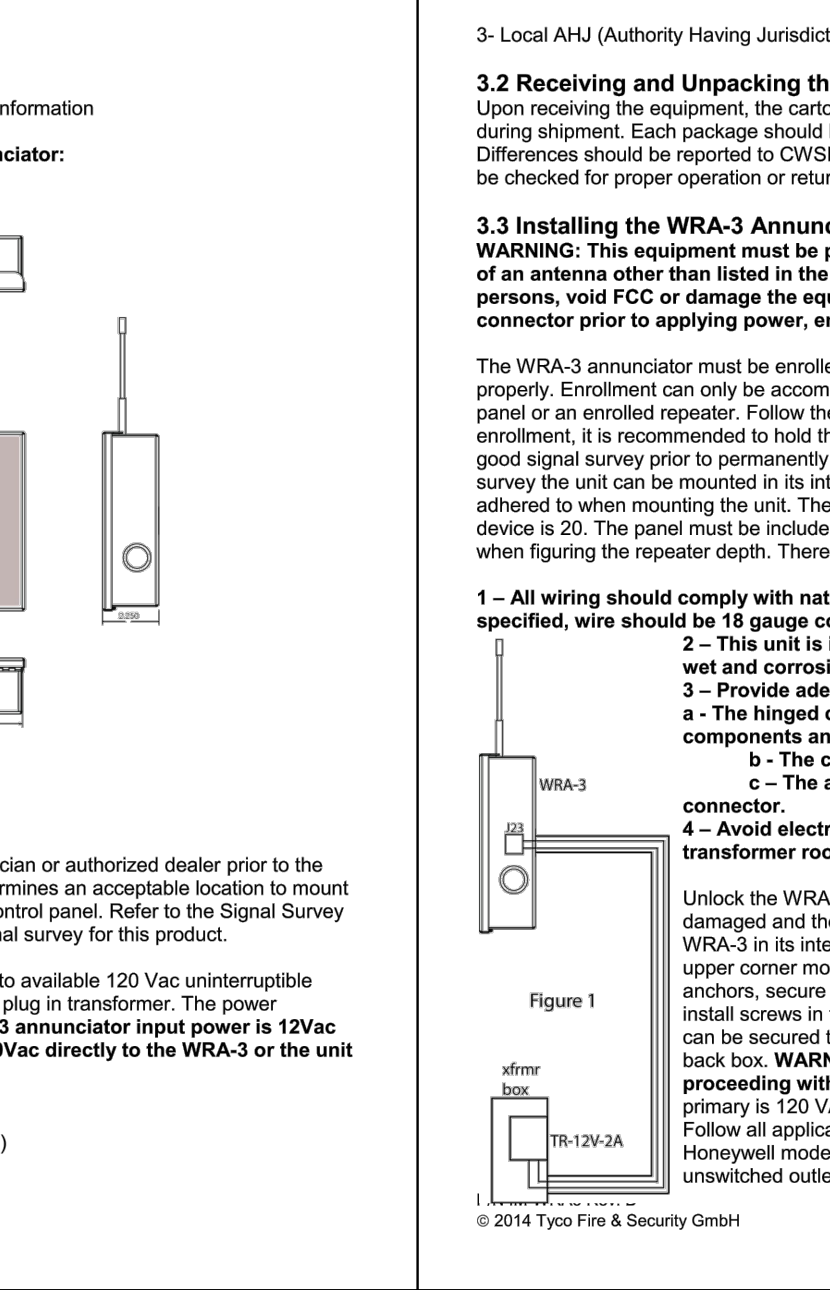
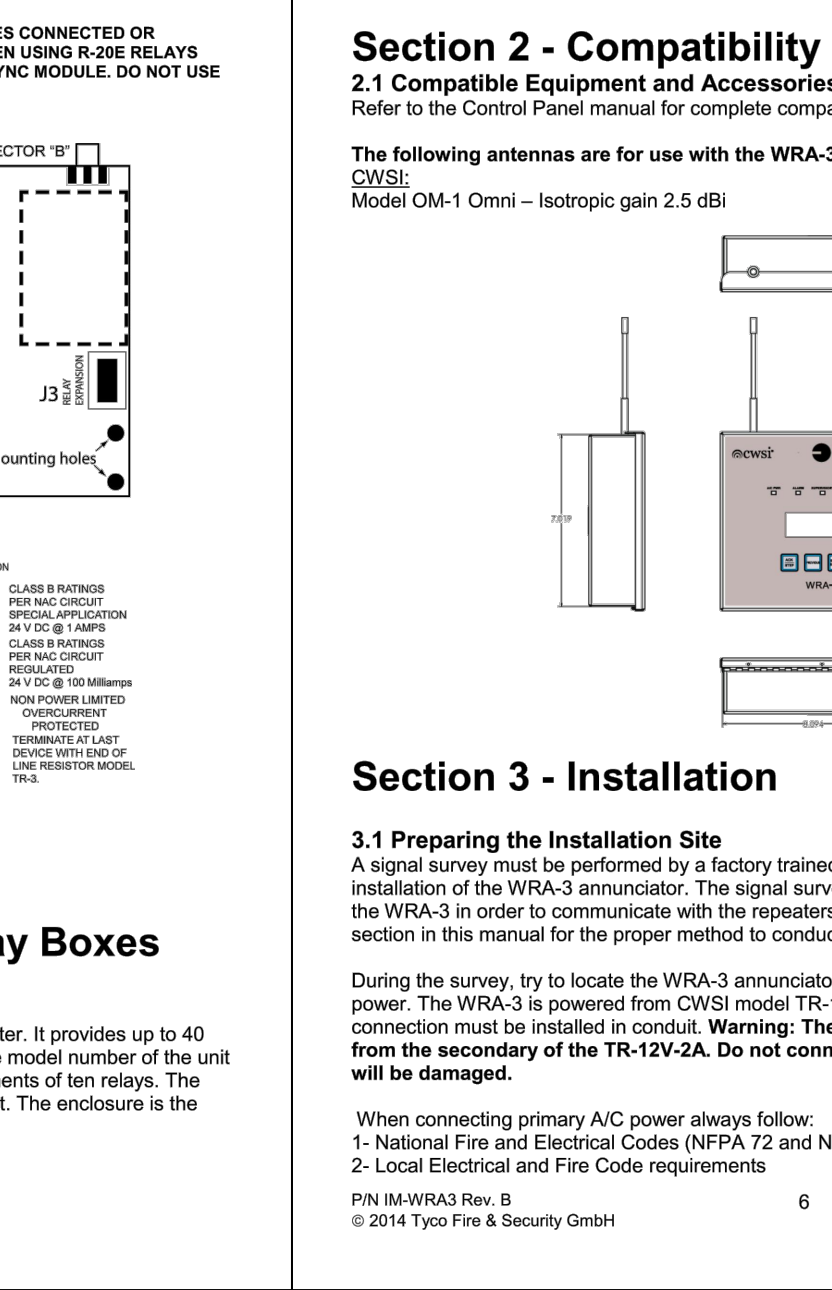
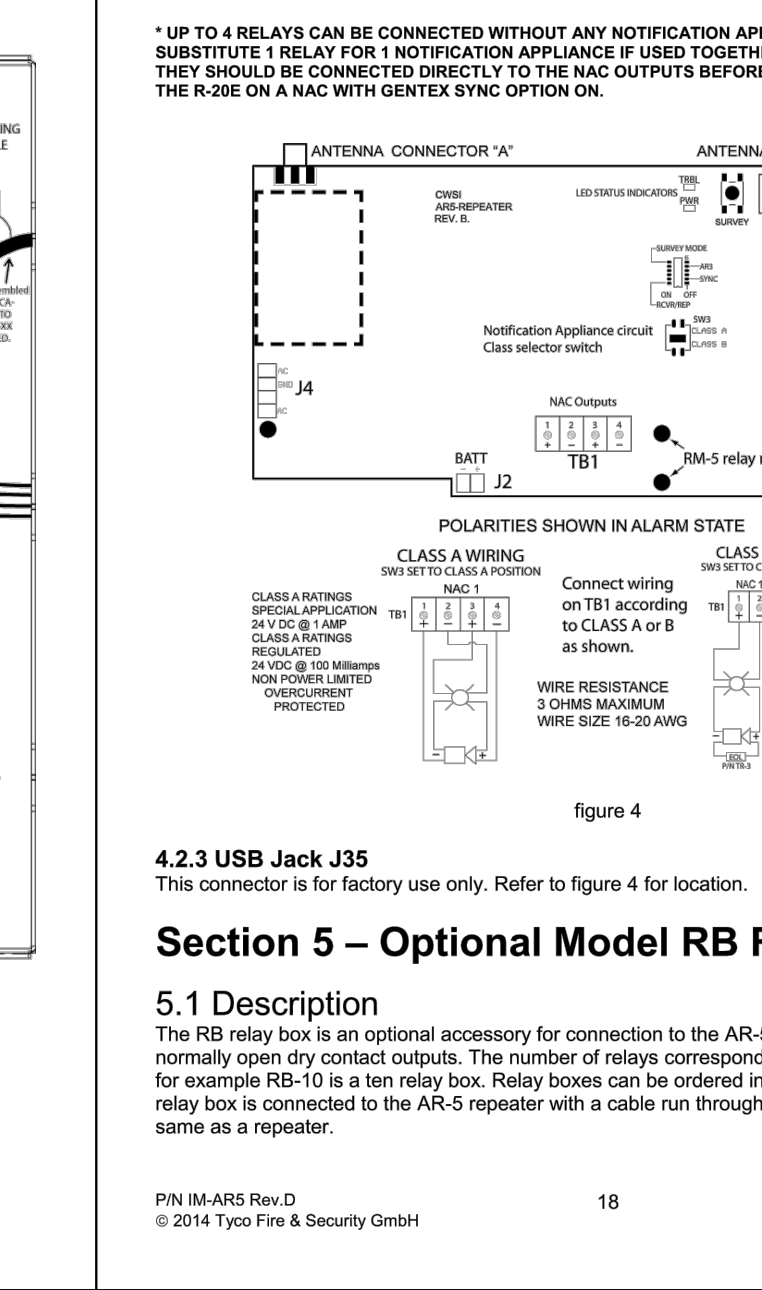
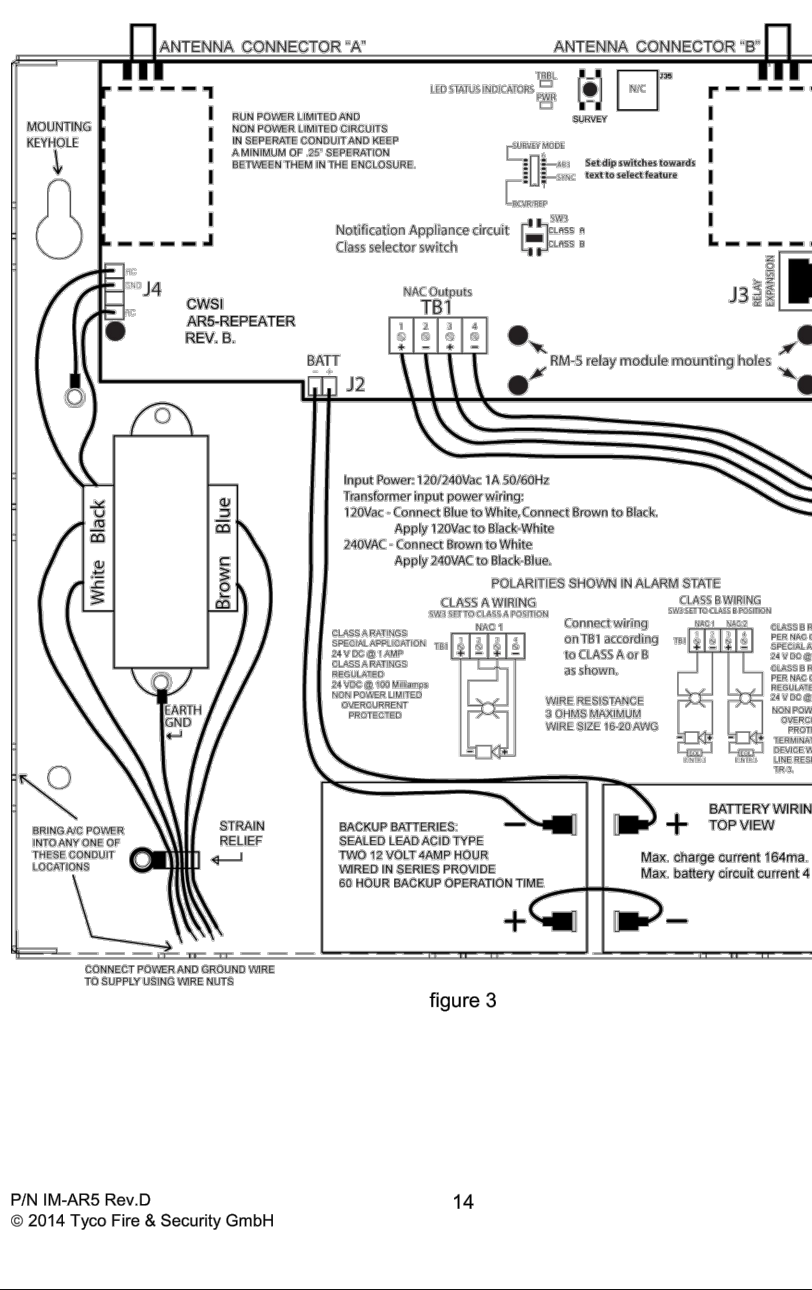
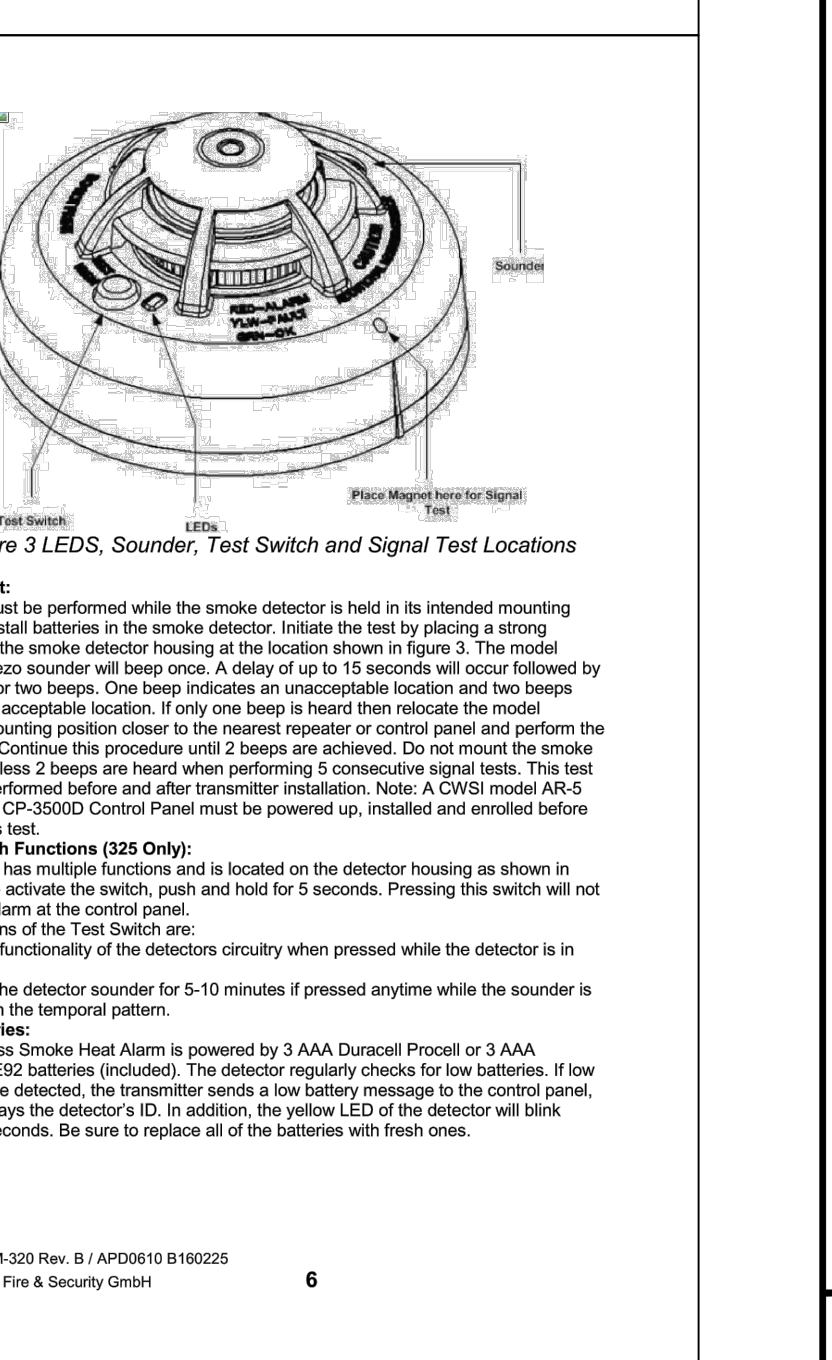
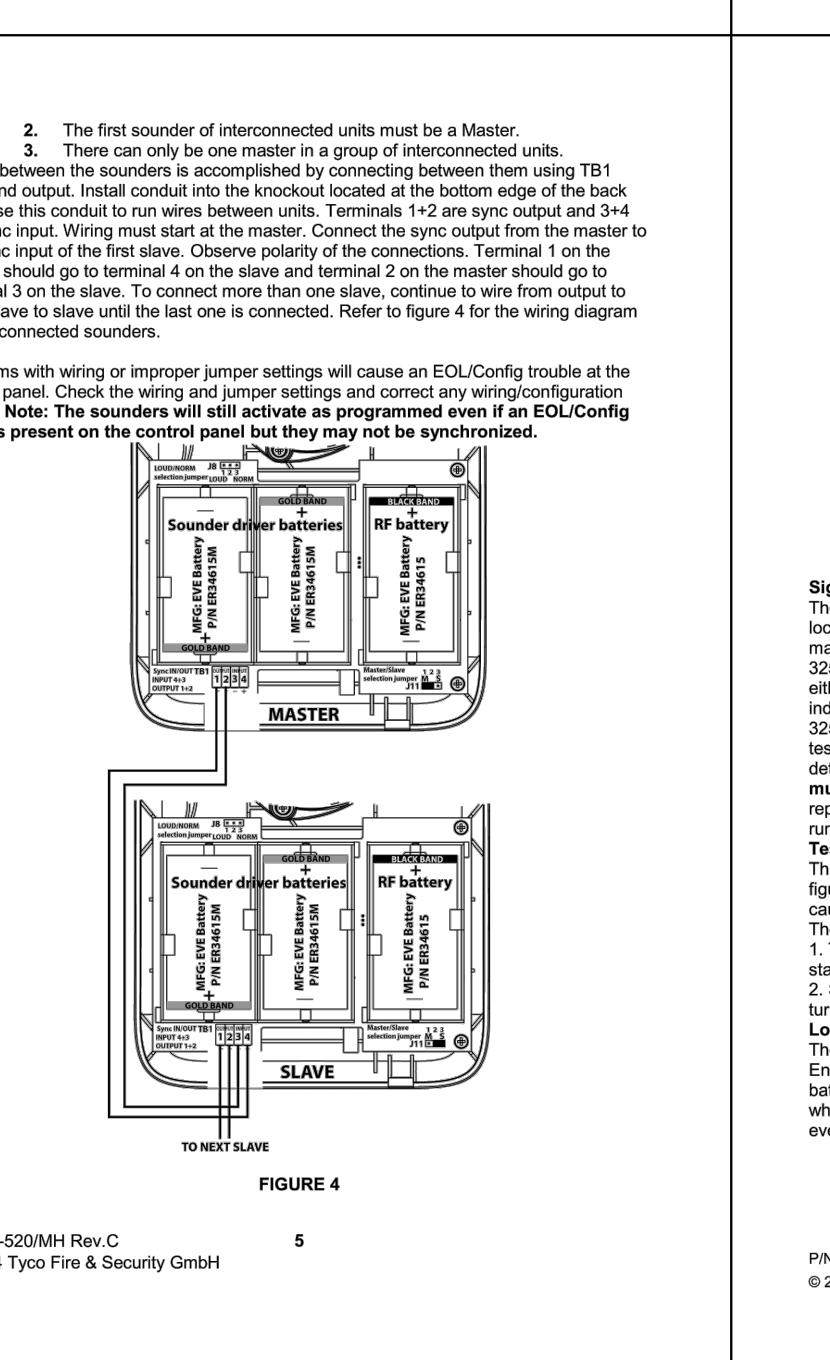
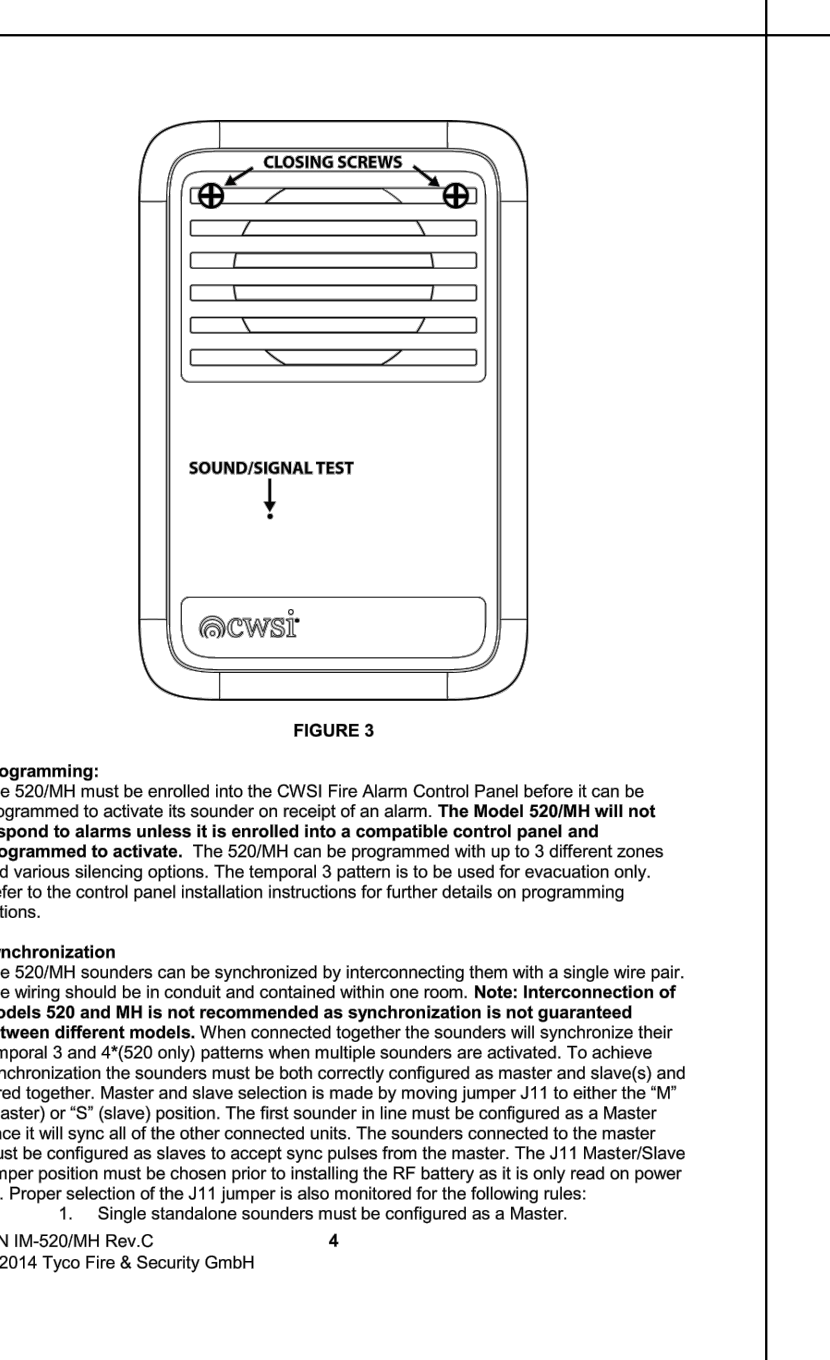
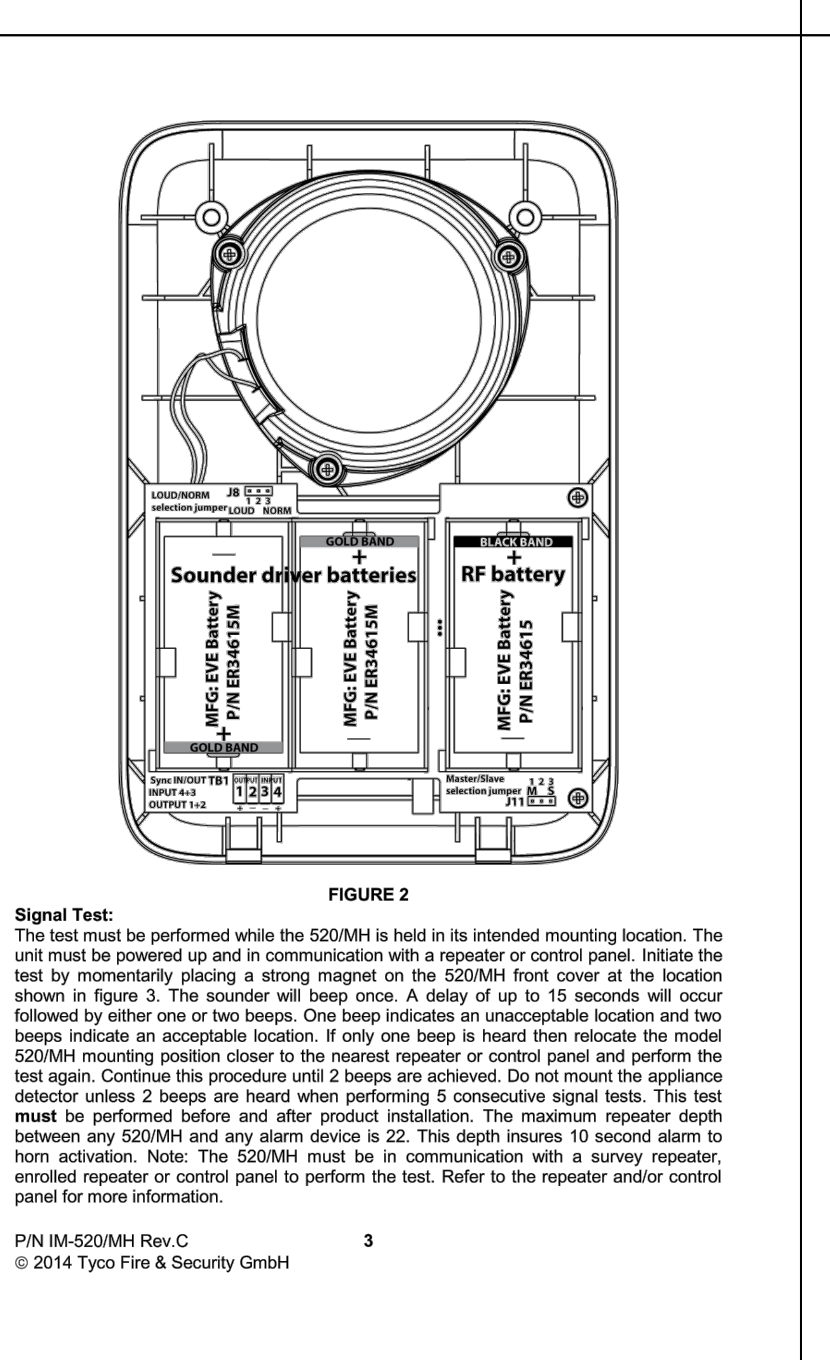
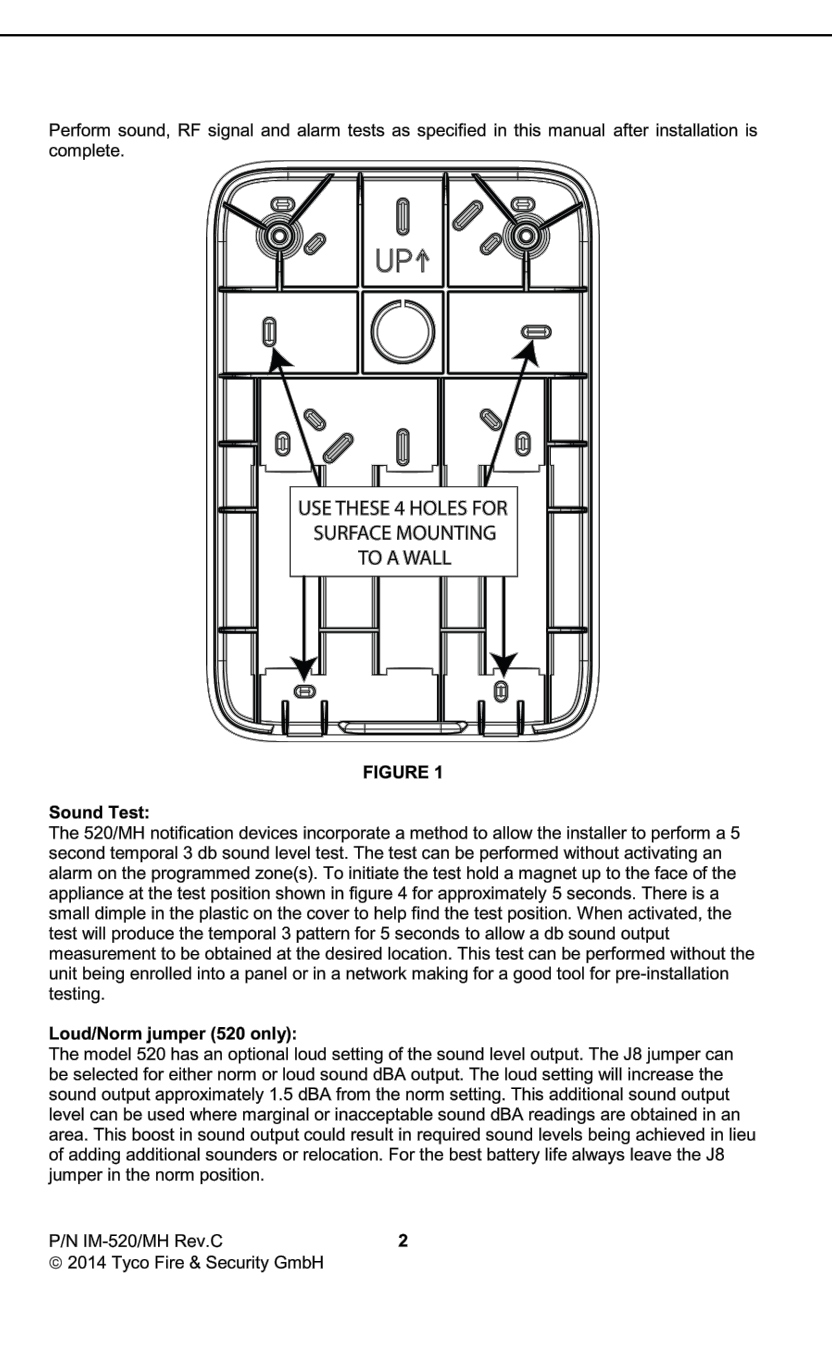
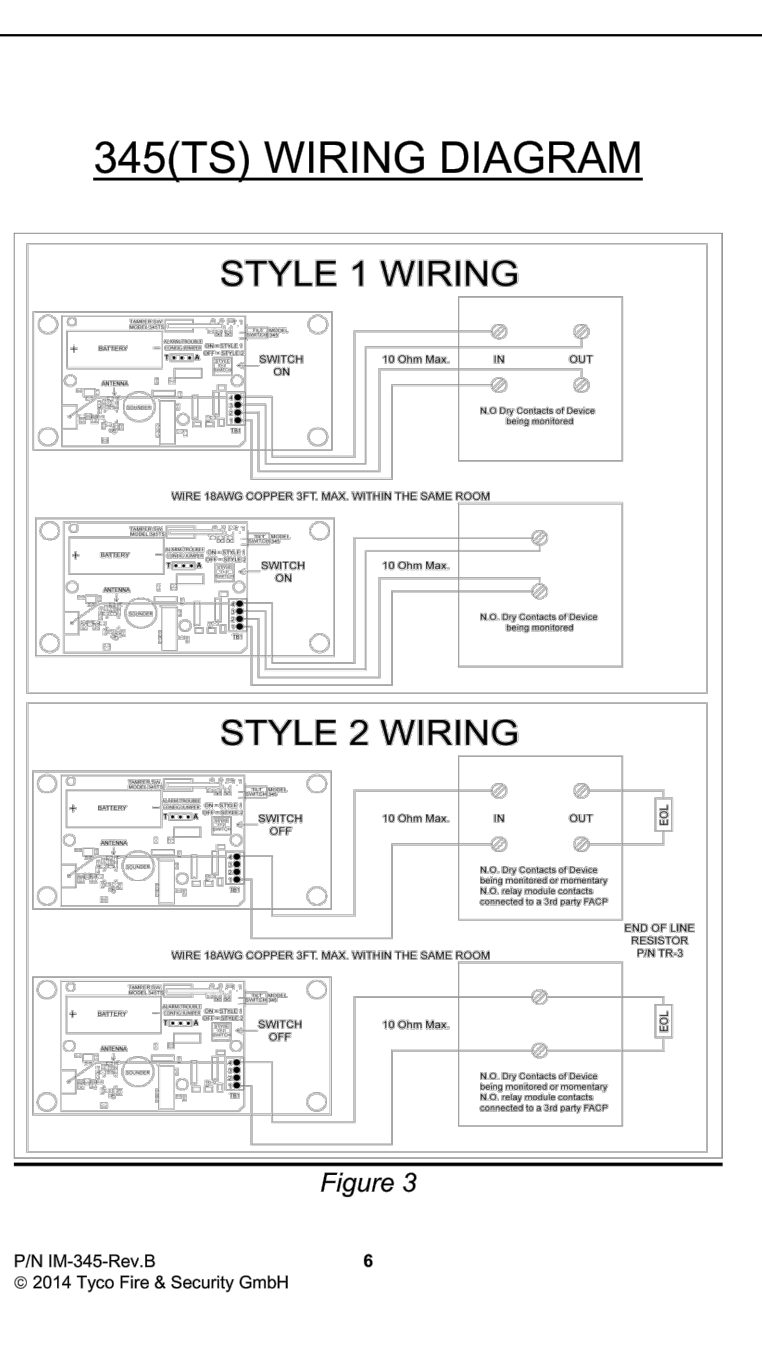
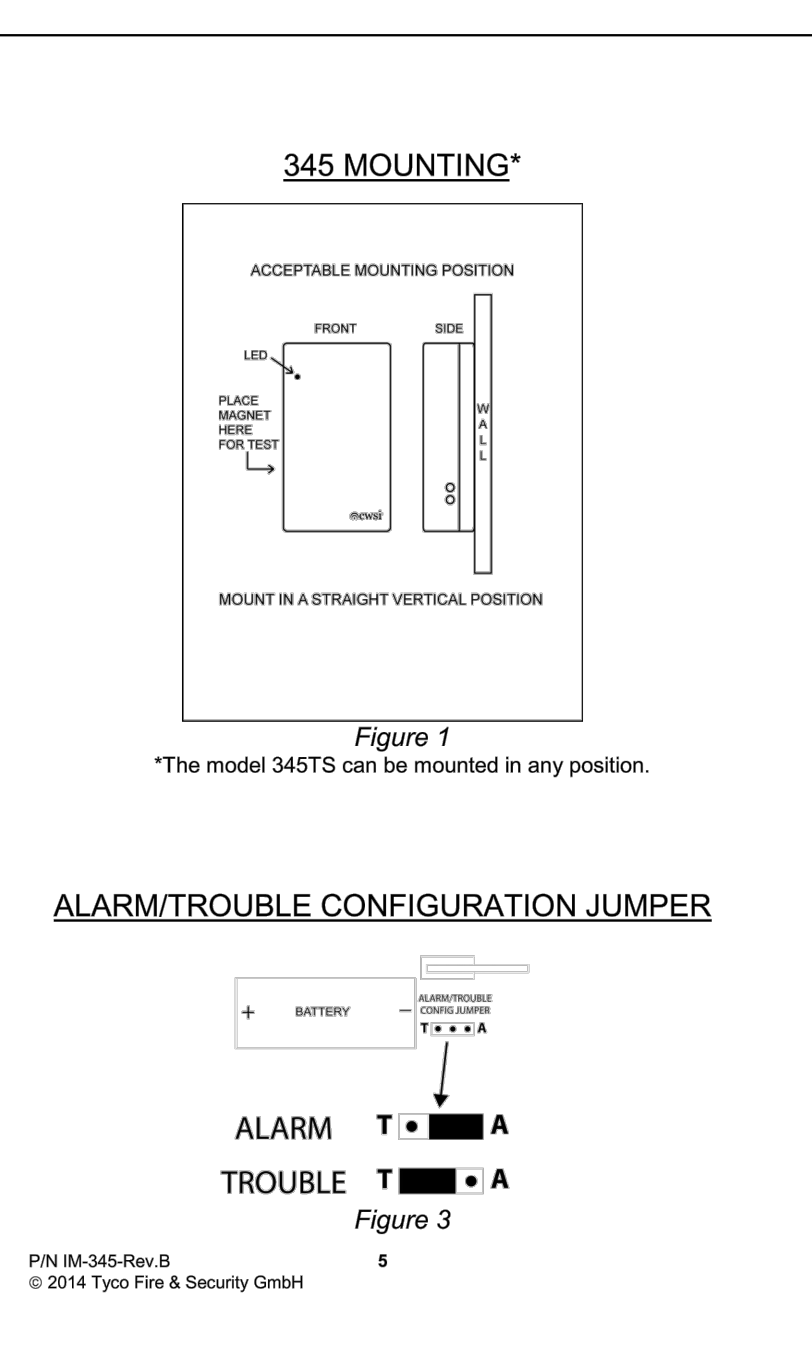
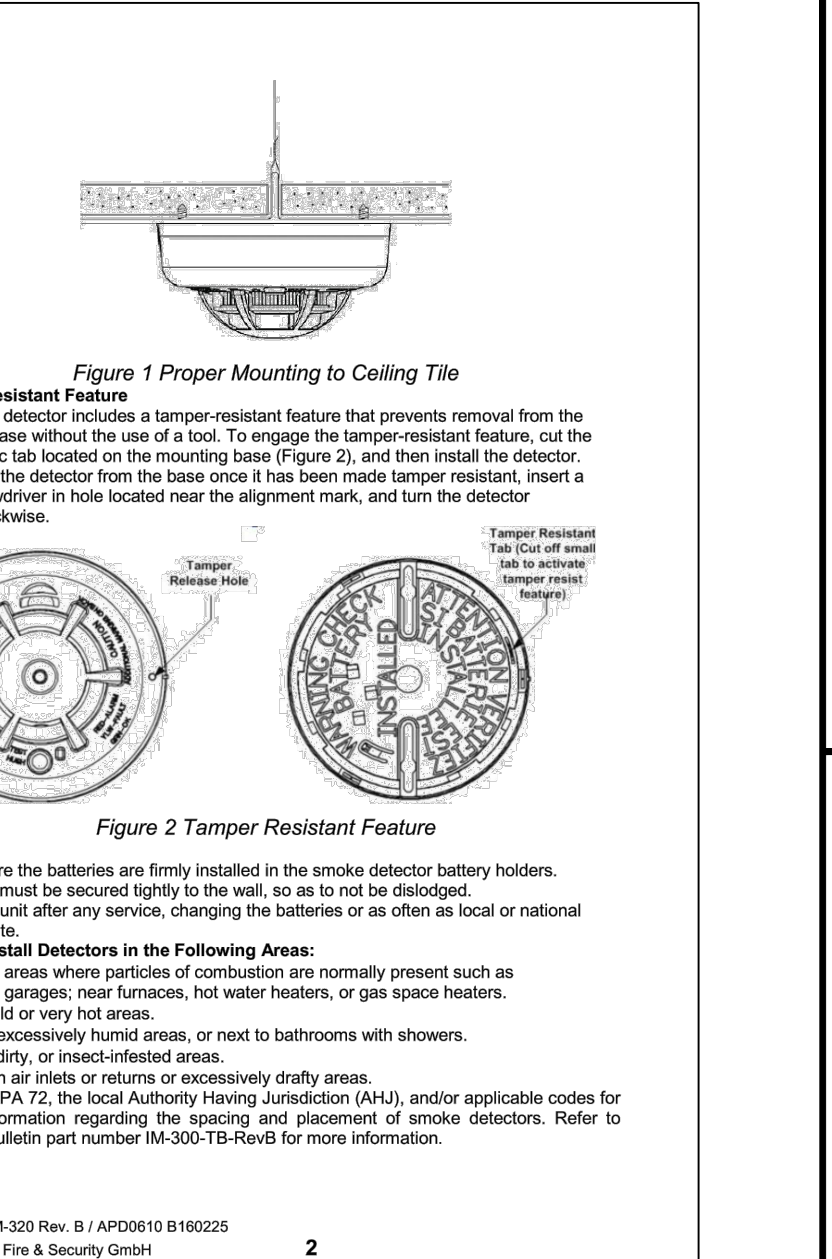
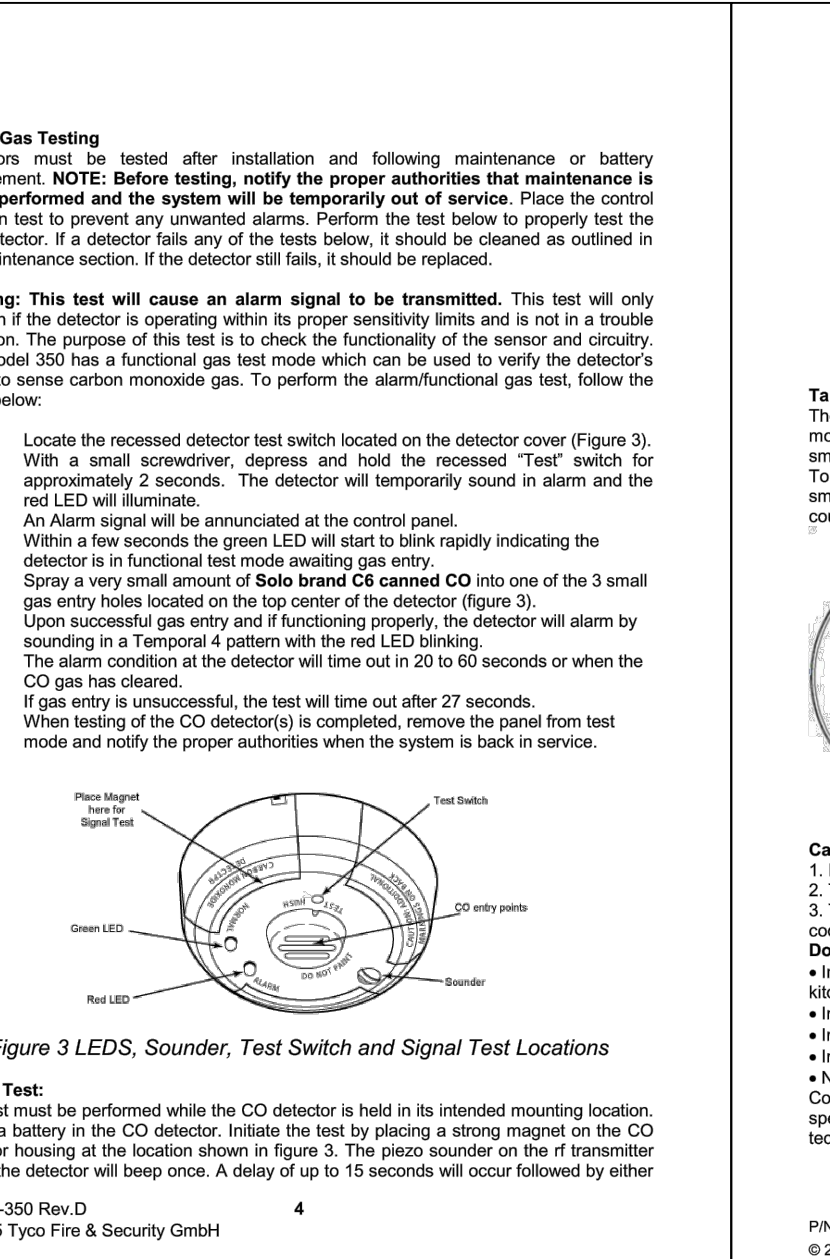
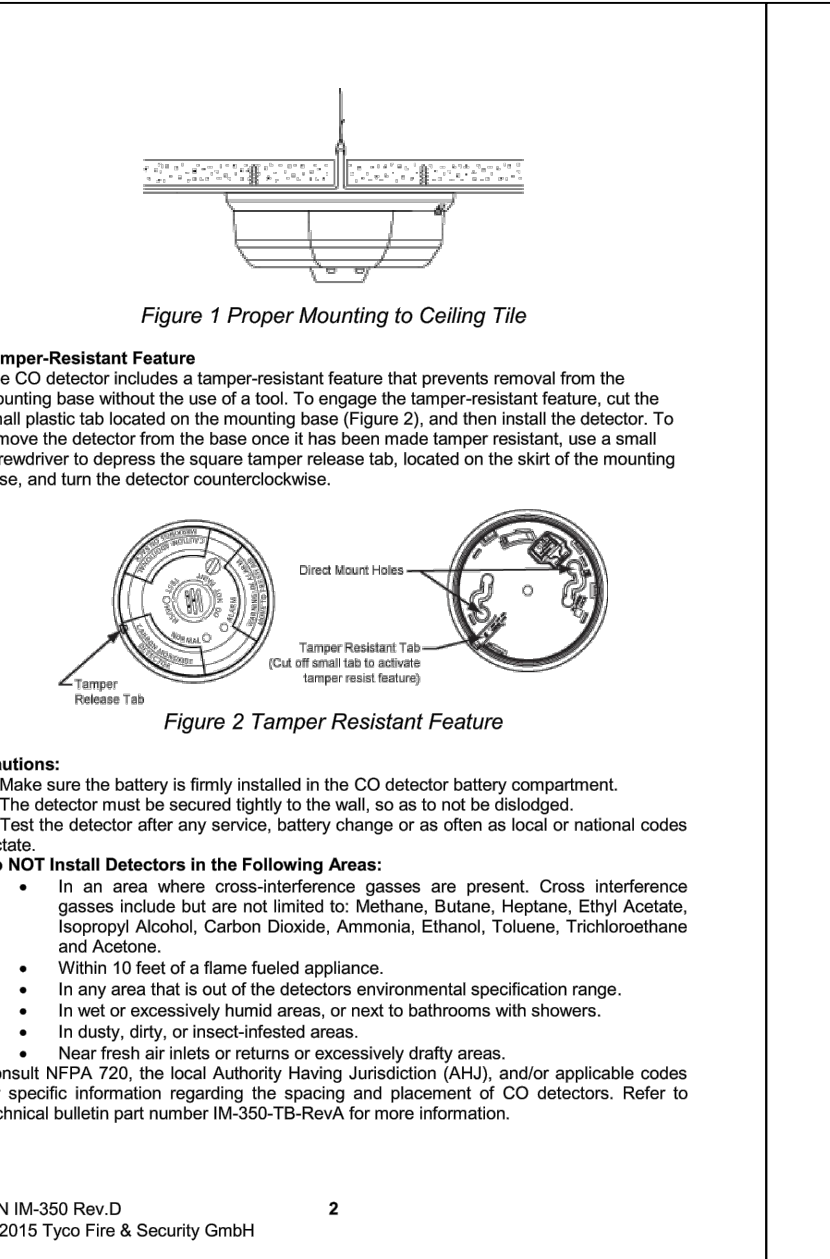
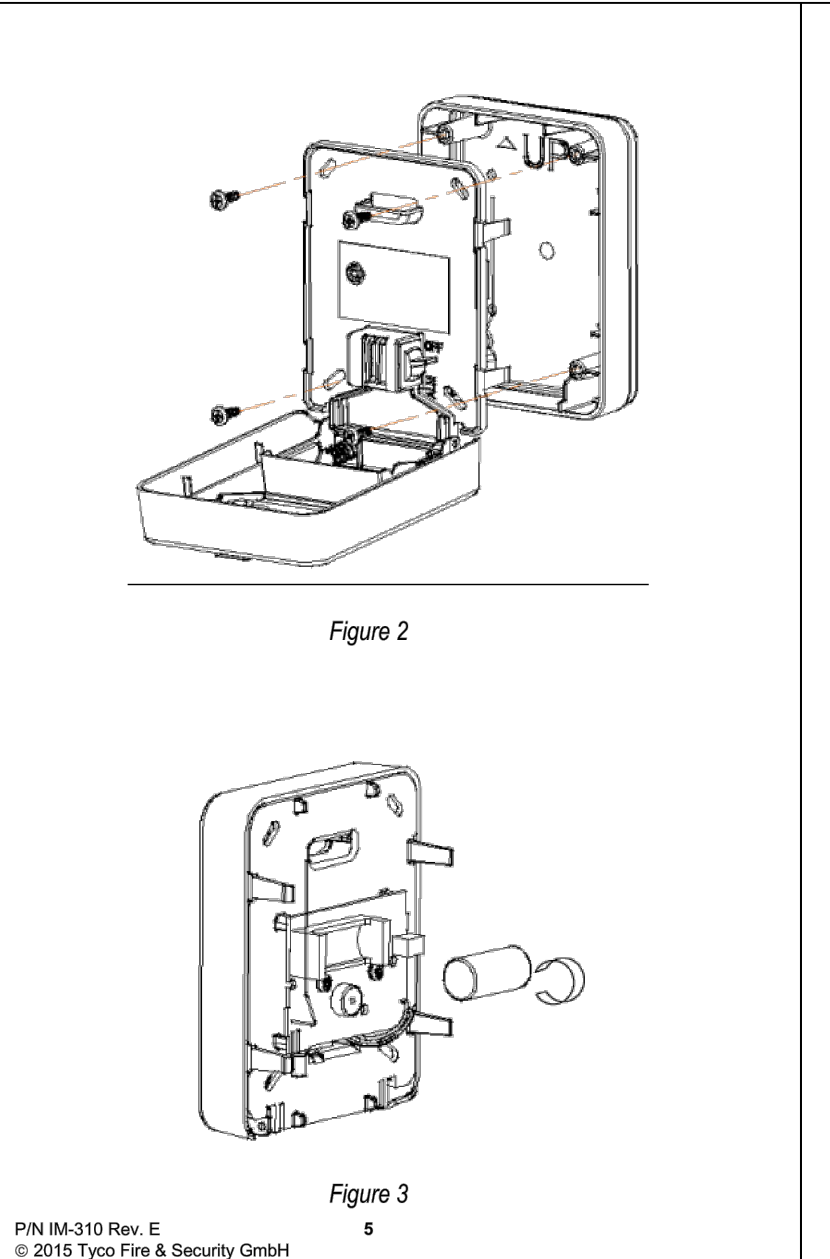
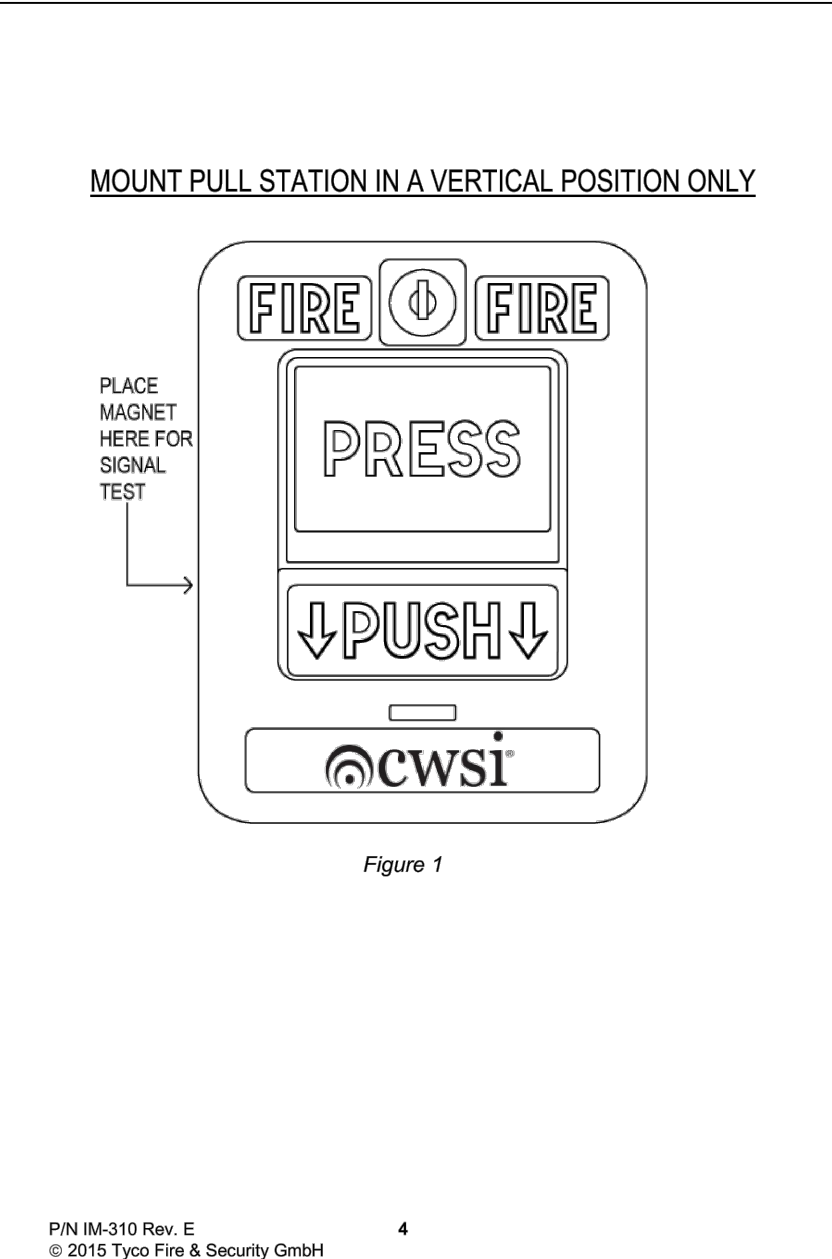
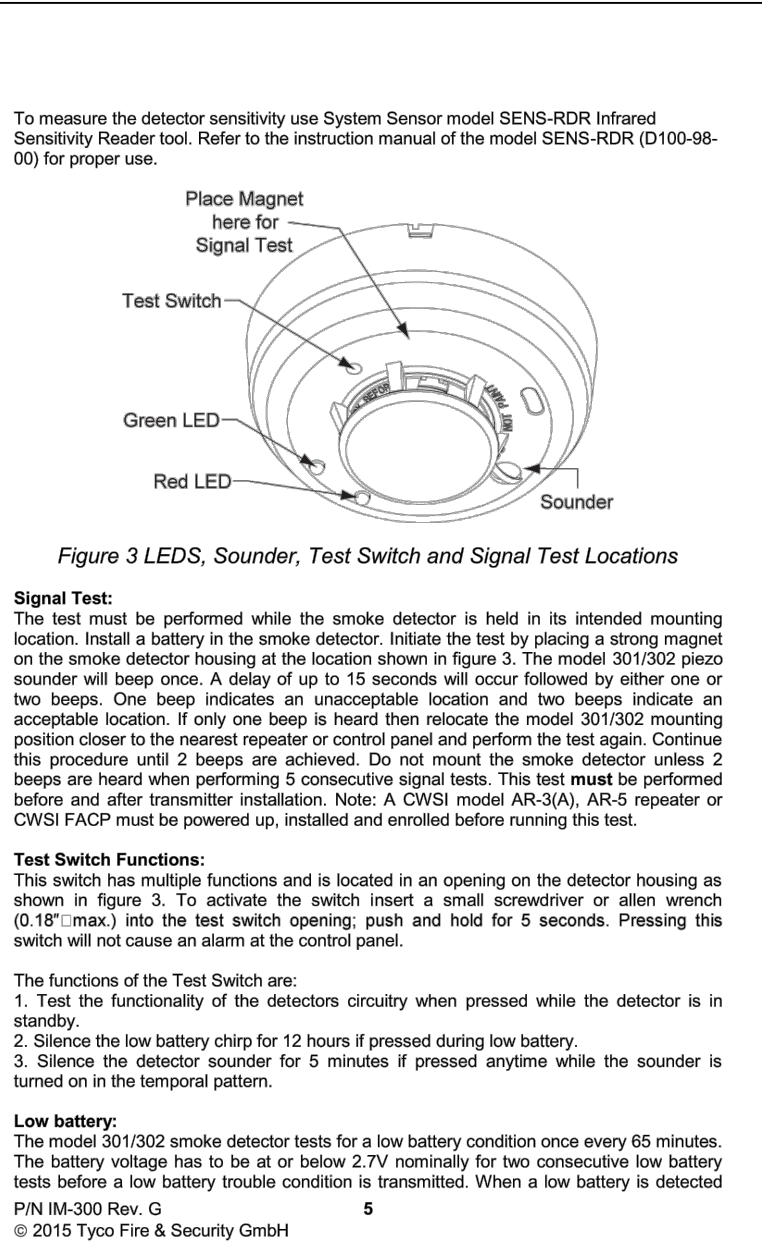
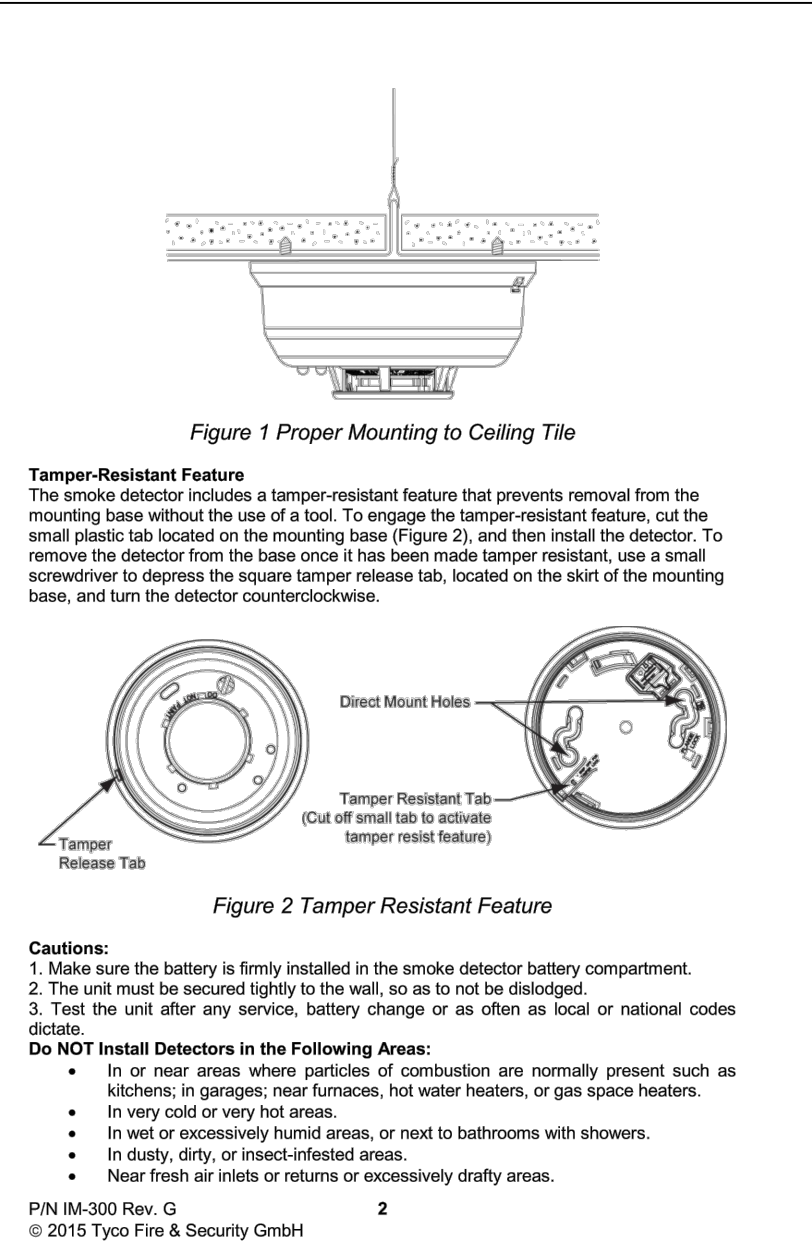
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CALCULATIONS AND SCHEDULES

FA-601

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ISSUE NO:	DATE:	CAD:	DESCRIPTION:
DRAWN BY: DZONA	CHECKED BY: SKALAFARSKI	ISSUE DATE: 1/13/17	JOB #: 147-14726849
PROJECT #: 147-14726849			
SIMPLEXGRINNELL © 2017			
SYSTEM: FIRE ALARM SYSTEM			
SHEET: WIRING TYPICALS			
FA-701			

tyco SimplexGrinnell

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