



CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII CIM-005324

I. IDENTIFICATION

1. Proposed Work Site at: 51 CHAMBERS BLVD, BRICK, NJ 08723

2. Name of Owner in Fee: PARAMOUNT PLAZA & BRICK LLC
 Tel. (732) 961-8140 e-mail NA
 Address 1195 Route 70, LAKEWOOD, NJ 08701
street municipality zip code

3. Ownership in Fee: Public ☐ Private ☐

4. Principal Contractor: AAA PROTECTIVE SYSTEMS INC. Tel. (732) 673-0207
 Address 961 JULE KILMER AVE, NORTH BRUNSWICK, NJ 08902 e-mail NA
 License No. OR, if new home, Builder Reg. No. NA Exp. Date NA
 Home Improvement Contractor Registration No. or Exemption Reason (if applicable): NA
 Federal Emp. ID No. 34BF00010600 FAX: (732) 846-5272

5. Architect or Engineer: NA Contact NA
 Address NA e-mail NA
 Tel. (NA) NA FAX: (NA) NA

6. Responsible Person in Charge once Work has Begun: JIM MARRA ✓
 Tel. (732) 673-0207 FAX: (732) 846-5272

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$		
2. Electrical	\$	<u>150-2</u>	
3. Plumbing	\$	<u>116-2</u>	
4. Fire Protection	\$		
5. Elevator Devices	\$		
6. Subtotal	\$		
7. Less 20% for State Plan Review	\$		
8. Subtotal	\$		
9. State Permit Surcharge Fee	\$	<u>9-</u>	
10. Subtotal	\$		
11. Cert. of Occupancy	\$		
12. Other	\$	<u>215</u>	
13. TOTAL	\$		

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories		(office use only)
2. Height of Structure		
3. Area — Largest Floor		
4. New Building Area		
5. Volume of New Structure		
6. Max. Live Load		
7. Max. Occupancy Load		
8. If Industrialized Building: State Approved		
9. Total Land Area Disturbed		
10. Flood Hazard Zone		
11. Base Flood Elevation		
12. Wetlands	yes ☐ no ☐	

COMMERCIAL

IIa. PROPOSED WORK

☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition

☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction

☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

IIb. SUBCODES (Check all that apply)

☐ Building ☒ Electrical ☐ Plumbing ☒ Fire Protection ☐ Elevator

FOR OFFICE USE ONLY (Optional)

Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates	Re-viewer

TOTAL COST _____

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use: _____

2. Use Group, Proposed: _____

3. Change in Use Group, Indicate Present: _____

4. No. of dwelling units: Total Units Income-restricted

Gained, Sale _____
 Gained, Rental _____
 Lost, Sale _____
 Lost, Rental _____

B. NON-RESIDENTIAL (primary use)

1. State Specific Use: _____

2. Use Group, Proposed: _____

3. Change in Use Group, Indicate Present: _____

C. MIXED USE -List secondary use(s): _____

D. Construct. Classification: Present _____ Proposed _____

III. PLAN REVIEW (optional)

DO YOU WANT:

1. ☐ Partial Releases

2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/
Dumbwaiters/Moving Walks

2. ☐ High Pressure Boilers

3. ☐ Pressure Vessels

4. ☐ Refrigeration Systems

5. ☐ Cross-Connections/Backflow Preventers

6. ☐ Hazardous Uses/Places of Assembly

7. ☐ Sprinklers/Standpipes

8. ☐ Smoke Control Systems in Open Wells

9. ☐ Underground Storage Tanks

10. ☐ Swimming Pools, Spas and Hot Tubs

11. ☐ LPGas Tanks

12. ☐ Fire Alarm



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 1/26/2018
Control Number C-17-005324
Permit Number 17-4018
Permit Issue Date 12/11/2017
Certificate Number 17-4018

Certificate

Construction Code Division
(Certificate of Approval)

Identification

Work Site Location: 51 CHAMBERS BRIDGE RD Brick Township, NJ Block: 672 Lot: 8 Qual: _____
Owner in Fee: PARAMOUNT PLAZA AT BRICK LLC
Owner Address: 1195 ROUTE 70 LAKEWOOD NJ 08701
Telephone: (732) 961-8140
Contractor: AFA PROTECTIVE SYSTEMS INC
Address: 961 JOYCE KILMER AVE NORTH BRUNSWICK NJ 08902-
Telephone: (732) 846-4000 Fax: (732) 846-5272
License Number or Builders Registration Number: _____ Federal Emp. Number: 13-1805009

Home Warranty Number: _____

Type of Warranty Plan: ☐ State ☐ Private

Use Group: M Construction Classification: _____

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: ALARM SYSTEM (BURGLAR OR FIRE) ... CENTRAL STATION ALARM MONITORED BY LANDLORD

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

☐ Total removal of lead-based paint hazards in scope of work

☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

☐ Total removal of asbestos hazards in scope of work

☐ Partial or limited time period (years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

Construction Official

Fee: \$0.00

Check Number: _____

Collected By: _____



FIRE PROTECTION SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 672 Lot 8 Qualification Code _____
Work Site Location 51 CHAMBERS BRIDGE ROAD, BRICK, NJ 08723

Owner in Fee: PARAMOUNT PLAZA e BRICK LLC
Tel. (732) 961-0140 e-mail MA

Address 1195 Route 70, LAKEWOOD NJ 08701 zip code 08701

Contractor: APA PROTECTIVE SYSTEMS INC Tel. (732) 673-0207

Address 961 JOLYF KILMIST AVE, N.J. HUNTSVILLE, MA e-mail _____

Fire Protection Equipment, NJ Div of Fire Safety Permit No. _____

Fire Alarm Contractor No. 200495 Exp. Date 10/31/18

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____

Federal Emp. ID No. 349600010660 FAX: (732) 846-5212

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present _____ Proposed _____

Constr. Class: Present _____ Proposed _____

Heating System: [] New OR [] Existing [] HVAC

Type: [] Gas [] Oil [] Electric [] Solar

Location: [] Other _____

Fuel Storage Tank: _____

Fuel Type: [] Flammable OR [] Combustible Capacity _____

Total Cost of Fire Protection Work \$ 4,200.

Fire Alarm System: [] New OR [] Existing

Location of Panel: Shrinker Room

Fire Suppression System: (Landlord Alarm) Just to Jackson's Furniture

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent/owner) and am authorized to make this application.

Applicant's Signature/Contractor's Signature
[] Certified Contractor [] Exempt Applicant

D. TECHNICAL SITE DATA
DESCRIPTION OF WORK: COMM. STATION Monitoring of LANDLORD OWNED FIRE ALARM SYSTEM

Water Supply Source _____

Method of Alarm/Suppression System Supervision _____

Flammable/Combustible Tanks _____

Alarm Systems _____

[] System _____

[] 110v Interconnected _____

[] CO Detectors/110v _____

Alarm Devices (i.e., smoke, heat, pulls, water/flow) _____

Supervisory Devices (i.e., tampers, low/high air) _____

Signaling Devices (i.e., horn/strobes, bells) _____

Other Devices _____

TOTAL _____

Suppression Systems _____

Fire Pump _____ GPM Type _____

Dry Pipe/Alarm Valves _____

Pre-action Valves _____

Sprinkler Heads (Dry and Wet) _____

Standpipes _____

Pre-engineered Systems _____

Wet Chemical

Dry Chemical _____

CO₂ Suppression _____

Foam Suppression _____

FM200 Suppression _____

Other _____

Other Systems _____

Kitchen Hood Exhaust System _____

Smoke Control System _____

Fired Appliances [] Gas or [] Oil

Fireplace Venting/Metal Chimney _____

Other _____

Administrative Surcharge \$ _____

Minimum Fee \$ _____

State Permit Surcharge Fee \$ _____

TOTAL FEE \$ _____

2. Canary = Office Copy

4. Gold = Applicant Copy

JOB SUMMARY (Office Use Only)		INSPECTIONS		Dates (Month/Day)	
PLAN REVIEW	Type:	Failure	Approval	Initial	
[] No Plans Required	Alarm System				
Joint Plan Review Required:	Suppression Sys.				
[] Building [] Plumbing	Standpipe				
[] Electric [] Elevator	Fire Pump				
[] Fire Plans Approved	Pre-Eng. System				
Date: <u>12/14/18</u>	Mechanical				
Approved by: <u>[Signature]</u>	Smoke Control				
SUBCODE APPROVAL	TCO				
[] CO [] CCO [] CA	Flam/Combust Tanks				
Date: <u>12-1-18</u>	Fireplace Venting				
Approved by: <u>[Signature]</u>	Final				
	Other				



ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 612 Lot 8 Qualification Code MS 08723
Work Site Location 51 CHAMBERLAIN BLVD ROAD, BRICK, NJ 08723

Owner in Fee: PARAMOUNT PLAZA + BRICK LLC

Tel. 732 961-8140 e-mail NA

Address 1195 ROUTE 70, LAKEWOOD, NJ 08701

Contractor: AAA PROTECTIVE SYSTEMS INC Tel. 732 673-0207

Address 961 TYPE KILMILME e-mail NA

NORTH BRUNSWICK, NJ 08902

Contractor License No. NA Exp. Date NA

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): NA

Federal Emp. ID No. 348F00010600 FAX: 732 846-5877

B. ELECTRICAL CHARACTERISTICS Landlord's Alarm - Sprinkler room next to

Use Group Present Proposed NA

[] Pole/Pad # [] Temporary [] Other

Building Occupied as Utility Co.

Est. Cost of Elec. Work \$ 300

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

[] Partial - Underslab Utilities Approved

Date: 12/6/17 Approved by: SPES.

[] Electric Plans Approved

Date: 12/6/17 Approved by: AK

Joint Plan Review Required:

[] Bldg. [] Plumb. [] Fire. [] Elev.

SUBCODE APPROVAL FOR PERMIT

Date: 12/6/17

Approved by: [Signature]

SUBCODE APPROVAL FOR CERTIFICATE

[] CO [] CCO CA

Date: 12/27/17

Approved by: [Signature]

INSPECTIONS

Type:

Rough

Barrier-Free

Trench

Temp. Serv.

Constr. Serv.

TCO

Other

Service

Final

Barrier-Free

Temp. Cut-in-Card Date Issued

Final Cut-in-Card Date Issued

Annual Pool Inspection

DATES (Month/Day)

Failure

Approval

Initial

12-27-17

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant sign/Contractor sign and seal here:

Print name here: STANLEY MARADAY

[] Licensed Elec. Contractor [] Certif'd Landscape Irrigation Contr' Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK: CENTRAL SPRINKLER MONITORING

LANDSCAPE OWNER FIVE ALARM SLY SITE

QTY. SIZE ITEMS

Lighting Fixtures

Receptacles

Switches

Detectors

Light Poles

Motors—Fract. HP

Emergency & Exit Lights

Communications Points

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with UW Lights

Storable Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Oven/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/+ HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elec. Sign/Outline Light

Administrative Surcharge \$
Minimum Fee \$
State Permit Surcharge Fee \$
TOTAL FEE \$



FIRE PROTECTION SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 1170 Lot 18 Qualification Code _____
Work Site Location 425 Jack Martin Blvd - 6 West

Owner in Fee: Ocean Medical Center

Tel. _____ e-mail _____

Address 425 Jack Martin Blvd.

Contractor: United Plumbing & Heating, Inc. Tel. 732-991-1704

Address 36 Parkway e-mail _____
Point Pleasant Beach, NJ 08742

Fire Protection Equipment, NJ Div of Fire Safety Permit No. _____

Fire Protection Equipment, NJ Div of Fire Safety Installer No. 11922

Fire Alarm Contractor No. _____ Exp. Date 6/19

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 31-1818409 FAX: _____

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present _____ Proposed _____
Constr. Class: Present _____ Proposed _____

Heating System: ☐ New OR ☐ Modification to Existing
OR ☐ Conversion OR ☐ Replacement

Fuel Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar
☐ Other _____

Location: _____

Total Cost of Fire Protection Work \$ 250.00

Fuel Storage Tank:

Fuel Type: ☐ Flammable OR ☐ Combustible
Capacity _____

Fire Alarm System: ☐ New OR ☐ Existing

Location of Panel: _____

Fire Suppression/Standpipe System:

☐ New OR ☐ Existing

Location of Main Control Valve: _____

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Applicant/Contractor sign here: _____

Print name here: Michael Casey

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK: Relocate (1) sprinkler head

Water Supply Source _____

Method of Alarm/Suppression System Supervision _____

	NUMBER	FEE (Office Use Only)
Flammable/Combustible Tanks	_____	\$ _____
Alarm Systems	_____	_____
☐ System	_____	_____
☐ 110v Interconnected	_____	_____
☐ CO Detectors/110v	_____	_____
Alarm Devices (i.e., smoke, heat, pulls, water/flow)	_____	_____
Supervisory Devices (i.e., tampers, low/high air)	_____	_____
Signaling Devices (i.e., horn/strobes, bells)	_____	_____
Other Devices	_____	_____
TOTAL	_____	_____
Suppression Systems	_____	_____
Fire Pump _____ GPM Type _____	_____	_____
Dry Pipe/Alarm Valves	_____	_____
Pre-action Valves	_____	_____
Sprinkler Heads (Dry and Wet)	_____	_____
Standpipes	_____	_____
Pre-engineered Systems	_____	_____
Wet Chemical	_____	_____
Dry Chemical	_____	_____
CO ₂ Suppression	_____	_____
Foam Suppression	_____	_____
FM200 Suppression	_____	_____
Other _____	_____	_____
Other Systems	_____	_____
Kitchen Hood Exhaust System	_____	_____
Smoke Control System	_____	_____
Fuel-Fired Appliances ☐ Gas ☐ Oil ☐ Solid	_____	_____
Fireplace Venting/Metal Chimney	_____	_____
Other _____	_____	_____

JOB SUMMARY (Office Use Only)		INSPECTIONS		Dates (Month/Day)	
PLAN REVIEW		Type:	Failure	Failure	Approval
☐ No Plans Required		Alarm System	_____	_____	_____
☐ Partial Underslab Utilities Approved		Suppression Sys	_____	_____	_____
Date: _____ Approved by: _____		Standpipe	_____	_____	_____
☒ Fire Protection Plans Approved		Fire Pump	_____	_____	_____
Date: <u>12/20/17</u> Approved by: <u>[Signature]</u>		Pre-Eng. System	_____	_____	_____
Joint Plan Review Required:		Mechanical	_____	_____	_____
☐ Bldg. ☐ Elec. ☐ Plumb. ☐ Elev.		Smoke Control	_____	_____	_____
SUBCODE APPROVAL for PERMIT		TCO	_____	_____	_____
Date: <u>12/20/17</u>		Flam/Combust Tanks	_____	_____	_____
Approved by: <u>[Signature]</u>		Fireplace Venting	_____	_____	_____
SUBCODE APPROVAL for CERTIFICATE		Final	_____	_____	_____
☐ CO ☐ CCO ☐ CA		Other	_____	_____	_____
Date: _____					
Approved by: _____					

Administrative Surcharge \$ _____
Minimum Fee \$ _____
State Permit Surcharge Fee \$ _____
TOTAL FEE \$ _____

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(f)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name APA Protective Systems Inc / Jim MAMRAY

Address 961 Joyce Kilmer Ave.

North Brunswick, NJ 08902

Telephone 732-673-0207

Signature [Signature]

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

- IV. ☐ HOME ELEVATION: Include Home Elevation Contractor Certification as per N.J.S.A. 52:27D-123.16.



AFA Protective Systems, Inc.

INSPECTION AND TESTING FORM

DATE: 12-27-17

TIME: 9:00

SERVICE ORGANIZATION

Name: AFA Protective Systems, Inc.

Address: 961 Joyce Kilmer Ave, N. Brunswick, NJ 08902

Representative: JOE SCHAEFER

License No.: P00495

Telephone: 732-846-4000

PROPERTY NAME (USER)

Name: PARAMOUNT PLAZA @ BRICK LLC

Address: 51 CHAMBERS BRIDGE ROAD

Owner Contact: BRICK NJ 08732

Telephone: _____

MONITORING ENTITY

Contact: AFA

Telephone: 1-917-232-1873

Monitoring Account Ref. No.: 68-5066

APPROVING AGENCY

Contact: _____

Telephone: _____

TYPE TRANSMISSION

- ☐ McCulloh
☐ Multiplex
☒ Digital
☐ Reverse Priority
☐ RF
☐ Other (Specify) _____

SERVICE

- ☐ Weekly
☐ Monthly
☐ Quarterly
☐ Semiannually
☐ Annually
☐ Other (Specify) _____

Control Unit Manufacturer: FIRELITE

Model No.: M59200UDLS

Circuit Styles: B

Number of Circuits: 1

Software Rev.: _____

Last Date System Had Any Service Performed: N/A

Last Date That Any Software or Configuration Was Revised: N/A

ALARM-INITIATING DEVICES AND CIRCUIT INFORMATION

Quantity of Devices Installed	Circuit Style	Quantity of Devices Tested
<u>1</u>	<u>B</u>	<u>1</u>
<u>3</u>	<u>B</u>	<u>3</u>
<u>5</u>	<u>B</u>	<u>5</u>

Manual Fire Alarm Boxes

Ion Detectors

Photo Detectors

Duct Detectors

Heat Detectors

Waterflow Switches

Supervisory Switches

Manual Fire Alarm Boxes

Manual Fire Alarm Boxes

Other (Specify): _____

Alarm verification feature is disabled ☒ enabled _____



AFA Protective Systems, Inc.

ALARM NOTIFICATION APPLIANCES AND CIRCUIT INFORMATION

Quantity of
Appliances Installed

Circuit Style

Quantity of
Appliances Tested

Bells

Horns

Chimes

Strobes

Speakers

Other (Specify):

110 BELL S

No. of alarm notification appliance circuits: _____

Are circuits monitored for integrity?

☐ Yes ☐ No

SUPERVISORY SIGNAL-INITIATING DEVICES AND CIRCUIT INFORMATION

Quantity of
Devices Installed

Circuit Style

Quantity of
Devices Tested

Building Temp

Site Water Temp

Site Water Level

Fire Pump Power

Fire Pump Running

Fire Pump Auto Position

Fire Pump or Pump Controller Trouble

Fire Pump Running

Generator in Auto Position

Generator or Controller Trouble

Switch Transfer

Generator Engine Running

Other: _____

SIGNALING LINE CIRCUITS

Quantity and style of signaling line circuits connected to system (see NFPA 72, Table 6.6.1):

Quantity

Style(s)

1

B

SYSTEM POWER SUPPLIES

(a) Primary (Main):

Nominal Voltage

110

Amps

20

Overcurrent Protection: Type

BREXEL

Amps

20

Location (of Primary Supply Panelboard):

HSE PNL L

BREXEL 3

Disconnecting Means Location:

(b) Secondary (Standby):

2-12VDC

Storage Battery: Amp-Hr Rating

2 x 7AMPS

Calculated capacity in

14

Amp-Hrs to operate system for

29

hours

Engine-driven generator dedicated to fire alarm system:

Location of fuel storage:

TYPE BATTERY

☐ Dry Cell

☐ Lead-Acid

☐ Nickel-Cadmium

☐ Other (Specify):

☒ Sealed Lead-Acid

(c) Emergency or standby system used as a backup to primary power supply, instead of using a secondary power supply:

Emergency system described in NFPA 70, Article 700

Legally required standby described in NFPA 70, Article 701

Optional standby system described in NFPA 70, Article 702, which also meets the performance requirements of Article 700 or 701



AFA Protective Systems, Inc.

PRIOR TO ANY TESTING

NOTIFICATIONS ARE MADE

Monitoring Entity ☒ Yes ☐ No
Building Occupants ☒ Yes ☐ No
Building Management ☒ Yes ☐ No
Other (Specify) ☐ Yes ☐ No
AHJ Notified of Any Impairments ☐ Yes ☐ No

Who *ACT/MT AFA* Time *8:00*
STACP *8:00*
M & NT *8:00*

SYSTEM TESTS AND INSPECTIONS

TYPE	Visual	Functional	Comments
Control Unit	☒	☒	
Interface Equipment	☒	☒	
Lamps/LEDs	☒	☒	
Fuses	☒	☒	
Primary Power Supply	☒	☒	
Trouble Signals	☒	☒	
Disconnect Switches	☒	☒	
Ground-Fault Monitoring	☒	☒	

SECONDARY POWER

TYPE	Visual	Functional	Comments
Battery Condition	☒		
Load Voltage		☐	
Discharge Test		☐	
Charger Test		☐	
Specific Gravity		☐	

TRANSIENT SUPPRESSORS

☐

REMOTE ANNUNCIATORS

☐

NOTIFICATION APPLIANCES

	Visual	Functional	Comments
Audible	☒	☒	
Visible	☐	☐	
Speakers	☐	☐	
Voice Clarity		☐	

INITIATING AND SUPERVISORY DEVICE TESTS AND INSPECTIONS

Loc. & S/N	Device Type	Visual Check	Functional Test	Factory Setting	Measured Setting	Pass	Fail
<i>SPRINKLER RM</i>	<i>WF (3)</i>	☒	☒			☒	☐
<i>OUTSIDE SPRINKLER</i>	<i>PIV (3)</i>	☒	☒			☒	☐
<i>SPRINKLER RM</i>	<i>GV (2)</i>	☒	☒			☒	☐
<i>SMK PANEL</i>	<i>SMK</i>	☒	☒			☒	☐
		☐	☐			☒	☐
		☐	☐			☐	☐

(Additional Devices Listed on Supplementary Form Attached)

Comments: _____



AFA Protective Systems, Inc.

EMERGENCY COMMUNICATIONS EQUIPMENT

Phone Set

Phone Jacks

Off Hook Indicator

Amplifier(s)

Tone Generator(s)

Call-in Signal

System Performance

Visual

Functional

Comments

COMBINATION SYSTEMS

Fire Extinguisher Monitoring Device/System

Carbon Monoxide Detector/System

(Specify) _____

INTERFACE EQUIPMENT

(Specify) _____

(Specify) _____

(Specify) _____

SPECIAL HAZARD SYSTEMS

(Specify) _____

(Specify) _____

(Specify) _____

Special Procedures: _____

Comments: _____

SUPERVISING STATION MONITORING

Alarm Signal

Alarm Restoration

Trouble Signal

Trouble Signal Restoration

Supervisory Signal

Supervisory Restoration

NOTIFICATIONS THAT TESTING IS COMPLETE

Building Management

Monitoring Agency

Building Occupants

Other (Specify) _____

Yes

No

Time

Comments

Yes

No

Who

Time

The following did not operate correctly: _____

System restored to normal operation: Date: _____ Time: _____

THIS TESTING WAS PERFORMED IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.

Name of Inspector: SCOTT SCHAEFER Date: 12-27-17 Time: _____

Signature: _____

Name of Owner or Representative: _____ Date: _____ Time: _____

Signature: _____



CONSTRUCTION PERMIT

12/11/17
Date Issued
Control # C-17-005324
Permit # 17-4018

IDENTIFICATION Block: 672 Lot: 8 Qualifier
Work Site Location: 51 CHAMBERS BRIDGE RD. Brick Township, NJ Contractor AFA PROTECTIVE SYSTEMS INC
Address 961 JOYCE KILMER AVE. NORTH BRUNSWICK NJ
Owner in Fee PARAMOUNT PLAZA AT BRICK LLC
1195 ROUTE 70 LAKEWOOD NJ 08701 Address 08902-
Telephone: (732) 961-8140 Telephone: (732) 846-4000 / (732) 673-0207
Lic. No. or Bldrs. Reg. No. 34BF00010600 34BF00010600
Federal Employee No. 13-1803009

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☒ ELECTRICAL ☒ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

ALARM SYSTEM (BURGLAR OR FIRE) ... CENTRAL STATION ALARM MONITORED BY
LANDLORD

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$4,500

Construction Official

Date

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$150
Plumbing	\$0
Fire Protection	\$116
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$9
CO Fee	
Other	\$0
Total	\$275
Check No.	2700
Cash	\$0
Credit	\$0
Collected By	

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

- The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
- Foundations and all walls up to grade level prior to back filling.
- All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and/or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
- Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

12/11/17
#4013
\$150.00
\$116.00
\$9.00
\$275.00
*10 SERV.010



State of New Jersey
Department of Community Affairs
Division of Fire Safety



Hereby Issues To

AFA PROTECTIVE SYSTEMS INC
Fire Protection Equipment Contractor Business Permit
In The Following Fire Protection Areas:
Fire Alarm System

STATE OF NEW JERSEY
DIVISION OF FIRE SAFETY

This is to certify that a Fire Protection Equipment Contractor Business Permit has been issued to:

AFA PROTECTIVE SYSTEMS INC

And is authorized to provide services on the following systems: FAS

09/10/2015 to 10/31/2018

Date Issued Lapse Date

P00495
Permit ID

P00495 09/10/2015 to 10/31/2018
Permit ID Date Issued Lapse Date

Charles A. Richman
Commissioner

Fire Protection System Abbreviation Key:
AFPS-All Fire Protection Equipment Systems
FSS-Fire Sprinkler System
SHFSS-Special Hazard Fire Suppression System
FAS-Fire Alarm System
PFE-Portable Fire Extinguisher
KFSS-Kitchen Fire Suppression System

PLEASE DETACH HERE

Dear Contractor:

Congratulations on receiving a business permit as a Fire Protection Equipment Contractor. The business identified above is authorized by the New Jersey Department of Community Affairs to install, service, repair, inspect and maintain fire protection equipment on the systems/services identified on the permit. The services authorized by this permit are restricted to the Fire Protection Equipment services identified on the business permit application, and may be limited within each permit classification.

Let me commend you on your professional attitude and desire to provide a valuable service to the citizens of New Jersey. The business permit will be valid for a period of three years. At least one employee of the business must be certified within "each" specialty listed on the permit. An individual certified as a "All Fire Protection Equipment Systems" contractor is permitted to work on all fire protection equipment systems authorized by Public Law P.L. 2001, c. 289.

Please do not hesitate to contact our office if we may further assist you. Our mailing address is: Division of Fire Safety, Contractor Certification and Emblems Unit, P.O. Box 809, Trenton, New Jersey 08625-0809, or phone us at (609) 984-7860.

Sincerely,

Charles A. Richman
Commissioner

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Fire Alarm, Burglar Alarm & Locksmith Adv Comm

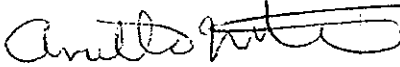
HAS REGISTERED

AFA PROTECTIVE SYSTEMS INC
Aniello Montuori
961 Joyce Kilmer Ave
North Brunswick NJ 08902

FOR PRACTICE IN NEW JERSEY AS A(N): BA and FA Business

01/18/2017 TO 01/31/2020
VALID

34BF00010600
LICENSE/REGISTRATION/CERTIFICATION #



Signature of Licensee/Registrant/Certificate Holder



DIRECTOR

New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Fire Alarm, Burglar Alarm & Locksmith Adv Comm
HAS REGISTERED
AFA PROTECTIVE SYSTEMS INC
BA and FA Business

01/18/2017 TO 01/31/2020
VALID

34BF00010600
License/Registration/Certificate #

SIGNATURE

DIRECTOR

PLEASE DETACH HERE
IF YOUR LICENSE/REGISTRATION/
CERTIFICATE ID CARD IS LOST
PLEASE NOTIFY:
Fire Alarm, Burglar Alarm & Locksm
P.O. Box 45006
Newark, NJ 07101

PLEASE DETACH HERE

MS-9200UDLS(E) Rev 3

**Intelligent Addressable FACP
with Built-In Communicator**

Fire-Lite Alarms
by Honeywell

Addressable Fire Alarm Control Panel

General

The Fire-Lite MS-9200UDLS Rev 3 with Version 5.0 firmware is a combination FACP (Fire Alarm Control Panel) and DACT (Digital Alarm Communicator/Transmitter) all on one circuit board. This compact intelligent addressable control panel has an extensive list of powerful features.

While the MS-9200UDLS Rev 3 may be used with an SLC configured in the CLIP (Classic Loop Interface Protocol) mode, it can also operate in LiteSpeed™ mode—Fire-Lite's latest polling technology—for a quicker device response time. LiteSpeed's patented technology polls 10 devices at a time. This improvement allows a fully-loaded panel with up to 198 devices to report an incident and activate the notification circuits in under 10 seconds. With Litespeed polling, devices can be wired on standard twisted, unshielded wire up to a distance of 10,000 feet.

The MS-9200UDLS Rev 3's quick-remove chassis protects the electronics during construction. The backbox can be installed allowing field wiring to be pulled. When construction is completed, the electronics can be quickly installed with just two bolts.

New features for Rev 3 with Version 5.0 firmware include removable terminal blocks, improved transient protection, additional secondary ANN-BUS, and increased power for the resettable and remote sync outputs.

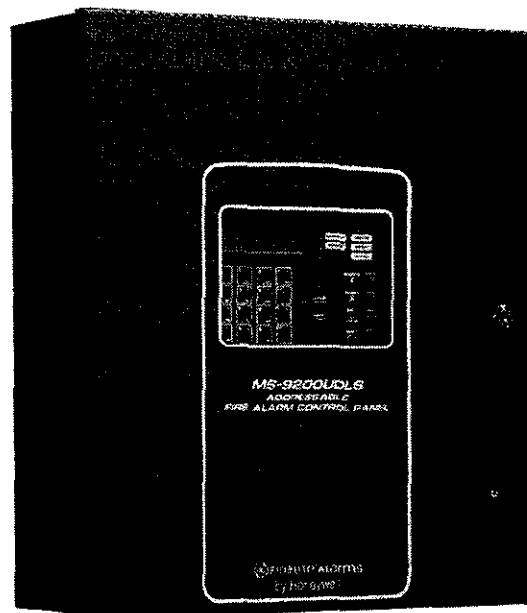
Available accessories include ANN-BUS devices as well as ACS LED, graphic and LCD annunciators, and reverse polarity/city box transmitter.

The integral DACT transmits system status (alarms, supervisorys, troubles, AC loss, etc.) to a Central Station via the public switched telephone network. It also allows remote and local programming of the control panel using the PS-Tools Upload/Download utility. In addition, the control panel may be programmed or interrogated off-site via the public switched telephone network. Any personal computer with Windows® XP or greater, a compatible modem, and PS-Tools—the Fire-Lite Upload/Download software kit—may serve as a Service Terminal. This allows download of the entire program or upload of the entire program, history file, walktest data, current status and system voltages. The panel can also be programmed through the FACP's keypad or via a standard PS-2 computer keyboard, which can be plugged directly into the printed circuit board. This permits easy typing of address labels and other programming information.

Version 5.0 firmware supports the following: Primary and Secondary ANN-bus devices, AD355 (LiteSpeed), USB port, NAC circuit diagnostics, a new report has been added to the walktest that lists untested devices, new device types added: audio telephone type code for ACC 25/50ZST, Photo Supervisory and auto-resettable Drill (non-latching).

The FireWatch Series internet monitoring modules IPDACT-2 and IPDACT-2UD permit monitoring of alarm signals over the Internet saving the monthly cost of two dedicated business telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line.

NOTE: Unless otherwise specified, the term MS-9200UDLS is used in this document to refer to both the MS-9200UDLS and the MS-9200UDLS(E) FACP's (Fire Alarm Control Panels).



Features

- Listed to UL standard 864, 9th edition.
- On-board DACT.
- Remote site or local USB port upload/download, using PS-Tools.
- Four (4) Style Y (Class B) NAC circuits, which can be converted to four (4) Style Z (Class A) circuits with optional ZNAC-92 converter module. (Up to 6.0 amps total NAC power when using optional XRM-24B.)
- Selectable strobe synchronization for System Sensor, Wheelock, and Gentex devices.
- Remote Acknowledge, Silence, Reset and Drill via addressable monitor modules or LCD-80F, ANN-80 or Legacy ACS Annunciators.
- ANN-BUS for connection to following optional modules (cannot be used if ACS annunciators are used):
 - ANN-80(-W) Remote LCD Annunciator
 - ANN-I/O LED Driver
 - ANN-S/PG Printer Module
 - ANN-RLY Relay Module
 - ANN-LED Annunciator Module
 - ANN-RLED Annunciator Module alarms only
 - ROME Relay Option Module Enclosure
- ACS/TERM:
 - ACS Annunciators: Up to 32 Legacy ACM Series annunciators (ACM-16AT or ACM-32 series). Cannot be used if ANN-BUS devices are used.
 - Terminal-mode Annunciators: Up to 32 Legacy LCD-80F remote annunciators.

- EIA-232 printer/PC interface (variable baud rate) on main circuit board, for use with optional UL-listed printer PRN-6F.
- Integral 80-character LCD display with backlighting.
- Real-time clock/calendar with automatic daylight savings control.
- Detector sensitivity test capability (NFPA 72 compliant).
- History file with 1,000-event capacity.
- Maintenance alert warns when smoke detector dust accumulation is excessive.
- Automatic device type-code verification.
- One person audible or silent walk test with walk-test log and printout.
- Point trouble identification.
- Waterflow (nonsilenceable) selection per monitor point.
- System alarm verification selection per detector point.
- PAS (Positive Alarm Sequence) and presignal delay per point (NFPA 72 compliant).

NOTE: Only detectors may participate in PAS.

SLC LOOP:

- SLC can be configured for NFPA Style 4, 6, or 7 operation.
- SLC supports up to 198 addressable devices per loop (99 detectors and 99 monitor, control, or relay modules).
- SLC loop maximum length 10,000 ft. (3,000 m.).
See installation manual for wire tables.

NOTIFICATION APPLIANCE CIRCUITS (NACS):

- Four onboard NACs with additional NAC capability using output control modules (CMF-300 or CMF-300-6). The four Class B NACs can be converted to four Class A NACs with optional ZNAC-92 converter module.
- Silence Inhibit and Auto Silence timer options.
- Continuous, March Time, Temporal or California code for main circuit board NACs with two-stage capability.
- Selectable strobe synchronization per NAC.
- 2.5 amps maximum per each NAC circuit.

NOTE: Maximum 24VDC system power output is shared among all NAC circuits and 24VDC special-application auxiliary power outputs. Total available output is 3.0 amps. Using the optional XRM-24B transformer increases 24VDC output to 6.0 amps.

PROGRAMMING AND SOFTWARE:

- Autoprogram (learn mode) reduces installation time.
- Custom English labels (per point) may be manually entered or selected from an internal library file.
- Three Form-C relay outputs (two programmable).
- 99 software zones.
- Continuous fire protection during online programming at the front panel.
- Program Check automatically catches common errors not linked to any zone or input point.
- **OFFLINE PROGRAMMING:** Create the entire program in your office using a Windows®-based software package (order programming kit PS-Tools, separately). Upload/download system programming locally to the MS-9200UDLS Rev 3 in less than one minute.
- USB upload/download programming with standard Male-A to Male-B cable.

User Interface

LED INDICATORS

- AC Power (green)
- Fire Alarm (red)

- Supervisory (yellow)
- Alarm Silenced (yellow)
- System Trouble (yellow)
- Maintenance/Presignal (yellow)
- Disabled (yellow)
- Battery Fault (yellow)
- Ground Fault (yellow)

KEYPAD CONTROLS

- Acknowledge/Step
- Alarm Silence
- Drill
- System Reset (lamp test)
- 16-key alpha-numeric pad (similar to telephone keypad)
- 4 cursor keys
- Enter

Product Line Information

MS-9200UDLS: 198-point addressable Fire Alarm Control Panel, one SLC loop. Includes 80-character LCD display, single printed circuit board mounted on chassis, and cabinet. 120 VAC operation.

MS-9200UDLSE: Same as **MS-9200UDLS**, except with 240 VAC operation.

4XTMF Reverse Polarity Transmitter Module: Provides supervised output for local energy municipal box transmitter, alarm, and trouble.

ZNAC-92: Optional converter module which converts four (4) Style Y (Class B) NAC circuits to four (4) Style Z (Class A) circuits.

PK-CD Programming software for Windows®-based PC computer (cable not included), available on www.firelite.com.

DP-9692: Optional dress panel for MS-9200UDLS Rev 3.

TR-CE: Optional trim Ring for semi-flush mounting.

BB-26: Battery backbox, holds up to two 25 AH batteries and CHG-75.

BB-55F: Battery box, houses two 55 AH batteries.

CHG-75: Battery charger for lead-acid batteries with a rating of 25 to 75 AH.

CHG-120F: Remote battery charging system for lead-acid batteries with a rating of 55 to 120 AH. Requires additional BB-55F for mounting.

BAT Series: Batteries, see data sheet DF-52397.

XRM-24B(E): Optional transformer. Increases system power output to 6.0 amps. Use XRM-24BE with MS-9200UDLS Rev 3(E).

PRT/PK-CABLE: Cable printer/personal computer interface cable; required for printer or for local upload/download programming and updating panel firmware.

PRN-6F: UL listed compatible event printer. Uses tractor-fed paper.

IPDACT-2/2UD, IPDACT Internet Monitoring Module: Mounts in bottom of enclosure with optional mounting kit (PN IPBRKT). Connects to primary and secondary DACT telephone output ports for internet communications over customer provided ethernet internet connection. Requires compatible Teldat VisorALARM Central Station Receiver. Can use DHCP or static IP. (See data sheet DF-60407 or DF-52424 for more information.)

IPBRKT: Mounting kit for IPDACT-2/2UD in common enclosure.

IPSPLT: Y-adaptor option allows connection of both panel dialer outputs to one IPDACT-2/2UD cable input.

COMPATIBLE ANNUNCIATORS

ANN-80(-W): LCD Annunciator is a remote LCD annunciator that mimics the information displayed on the FACP LCD display. Recommended wire type is un-shielded. (Basic model is red; order -W version for white; see DF-52417.)

ANN-LED: Annunciator Module provides three LEDs for each zone: Alarm, Trouble and Supervisory. Ships with red enclosure (see DF-60241).

ANN-RLED: Provides alarm (red) indicators for up to 30 input zones or addressable points. (See DF-60241).

ANN-RLY: Relay Module, which can be mounted inside the cabinet, provides 10 programmable Form-C relays. (See DF-52431.)

ROME: Relay Option Module Enclosure. Provides one **ANN-RLY** Relay Module already installed. The ROME Series provides mounting space for one additional Relay Module or one addressable Multi-module. (See *Installation Sheet PN 53530*.)

ANN-S/PG: Serial/Parallel Printer Gateway module provides a connection for a serial or parallel printer. (See DF-52429.)

ANN-I/O: LED Driver Module provides connections to a user supplied graphic annunciator. (See DF-52430.)

ACM-8RF: Relay module provides 8 Form-C 5.0 amp relays.

ACS-LED Zone Series: LED-type fire annunciators capable of providing up to 99 software zones of annunciation. Available in increments of 16 or 32 points to meet a variety of applications.

LDM Graphic Series: Lamp Driver Module series for use with custom graphic annunciators.

LCD-80F (Liquid Crystal Display) point annunciator: 80-character, backlit LCD-type fire annunciators capable of displaying English-language text.

NOTE: For more information on Compatible Annunciators for use with the MS-9200UDLS Rev 3, see the following data sheets (document numbers) **ACM-8RF** (DF-51555), **ACS/ACM Series** (DF-52378), **LDM Series** (DF-51384), **LCD-80F** (DF-52185).

LITESPEED COMPATIBLE ADDRESSABLE DEVICES

All feature a polling LED and rotary switches for addressing.

CP355: Addressable low-profile ionization smoke detector.

SD355: Addressable low-profile photoelectric smoke detector.

SD355T: Addressable low-profile photoelectric smoke detector with thermal sensor.

SD355R: Addressable remote test capable detector for use with D355PL or DNR(W) duct smoke detector housings.

H355: Fast-response, low-profile heat detector.

H355R: Fast-response, low-profile heat detector with rate-of-rise option.

H355HT: Fixed high-temperature detector that activates at 190F/88C.

AD355(A): Low-profile, intelligent, "Adapt" multi-sensor detector (B350LP base included).

BEAM355: Intelligent beam smoke detector.

BEAM355S: Intelligent beam smoke detector with integral sensitivity test.

D355PL: Innovair Flex low-flow non-relay duct-detector housing. SD355R included.

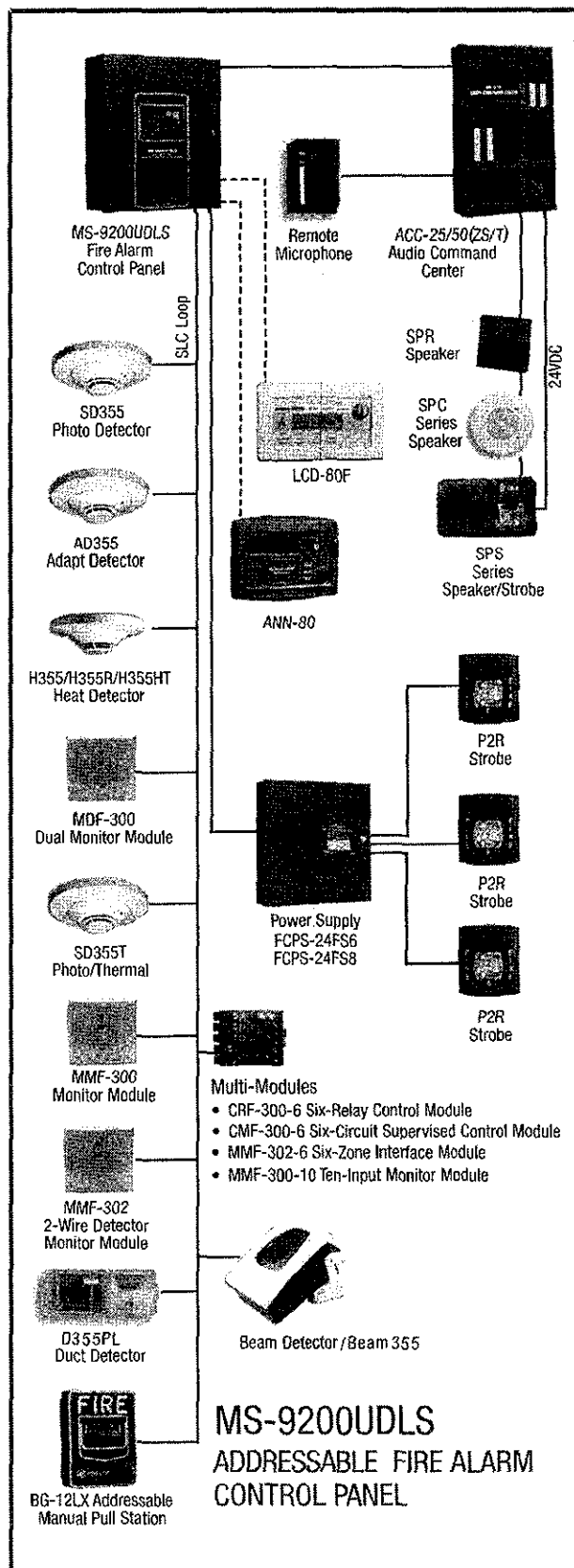
DNRW: Innovair Flex low-flow non-relay duct-detector housing, with NEMA-4 rating. Watertight. (Order SD355R separately.)

MMF-300: Addressable Monitor Module for one zone of normally-open dry-contact initiating devices. Mounts in standard 4.0" (10.16 cm.) box. Includes plastic cover plate and end-of-line resistor. Module may be configured for either a Style B (Class B) or Style D (Class A) IDC.

MDF-300: Dual Monitor Module. Same as MMF-300 except it provides two Style B (Class B) only IDCs.

MMF-301: Miniature version of MMF-300. Excludes LED and Style D option. Connects with wire pigtails. May mount in device backbox.

MMF-302: Similar to MMF-300, but may monitor up to 20 conventional two-wire detectors. Requires resettable 24 VDC power. Consult factory for compatible smoke detectors.



CMF-300: Addressable Control Module for one Style Y/Z (Class B/A) zone of supervised polarized Notification Appliances. Mounts directly to a 4.0" (10.16 cm.) electrical box. Notification Appliance Circuit option requires external 24 VDC to power notification appliances.

CRF-300: Addressable relay module containing two isolated sets of Form-C contacts, which operate as a DPDT switch. Mounts directly to a 4.0" (10.16 cm.) box, surface mount using the SMB500.

BG-12LX: Addressable manual pull station with interface module mounted inside.

I300: Fault Isolator Module. This module isolates the SLC loop from short circuit conditions (required for Style 6 or 7 operation).

SMB500: Used to mount all modules except the MMF-301 and M301.

MMF-300-10: Ten-input monitor module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

MMF-302-6: Six-zone interface module for compatible conventional two-wire detectors. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

CMF-300-6: Six-circuit supervised control module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

CRF-300-6: Six Form-C relay control module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

NOTE: 1) For more information on Compatible Addressable Devices for use with the MS-9200UDLS Rev 3, see the following data sheets (document numbers): AD355 (DF-52324), BG-12LX (DF-52013), CMF-300-6 (DF-52365), CRF-300-6 (DF-60379), CMF/CRF Series (DF-52130), CP355 (DF-52383), D355PL (DF-52398), H355 Series (DF-52385), I300 (DF-52389), MMF-300 Series/MDF-300 (DF-52121), MMF-300-10 (DF-52347), MMF-302-6 (DF-52356), SD355/SD355T (DF-52384). 2) Legacy 300 Series detection devices such as the CP300/CP350, SD300(T)/SD350(T) and older modules such as the M300, M301, M302, C304, and BG-10LX are **not compatible** with LiteSpeed polling. If the SLC contains one of these devices, polling must be set for standard LiteSpeed protocol. Please consult factory for further information on previous 300 Series devices.

Wiring Requirements

While shielded wire is not required, it is recommended that all SLC wiring be twisted-pair to minimize the effects of electrical interference. Wire size should be no smaller than 18 AWG (0.78 mm²) and no larger than 12 AWG (3.1 mm²). The wire size depends on the length of the SLC circuit. Refer to the panel manual for wiring details.

SYSTEM SPECIFICATIONS

System Capacity

- Intelligent Signalling Line Circuits..... 1
- Addressable device capacity 198
- Programmable software zones 99
- ACS Annunciators 32
- ANN-bus devices..... 16

Electrical Specifications

AC Power: MS-9200UDLS Rev 3: 120 VAC, 60 Hz, 3.0 amps.
MS-9200UDLS Rev 3E: 240 VAC, 50 Hz, 1.5 amps. Wire size:
minimum 14 AWG (2.00 mm²) with 600 V insulation.

Battery charger capacity: 7 AH - 18 AH batteries. Up to two 18 AH batteries can be housed in the FACP cabinet. Larger batteries require an external battery charger such as the CHG-75 or CHG-120, and a separate battery cabinet such as the BB-26 or NFS-LBB.

Communication Loop: Supervised and power-limited.

Notification Appliance Circuits: Each terminal block provides connections for two Style Y (Class B) for a total of four Style Y (Class B) or with an optional ZNAC-92 module converts to four Style Z (Class A) NACs. Maximum signaling current per circuit: 2.5 amps. End-of-Line Resistor: 4.7K ohm, 1/2 watt (P/N 71252 UL listed) for Style Y (Class B) NAC. Refer to panel documentation and *Fire-Lite Device Compatibility Document* for listed compatible devices.

Two Programmable Relays and One Fixed Trouble Relay:
Contact rating: 2.0 amps @ 30 VDC (resistive), 0.5 amps @ 30 VAC (resistive). Form-C relays.

Special Application Non-resettable Power (24 VDC Nominal): Jumper selectable (JP4) for conversion to resettable power output. Up to 1.0 amp total DC current available from each output. Power-limited.

Special Application Resettable Power (24 VDC nominal): Jumper selectable (JP6) for conversion to non-resettable power. Up to 1.0 amp total DC current available. Refer to the *Fire-Lite Device Compatibility Document* for listed compatible devices.

Remote Sync Output: Remote power supply synchronization output. Nominal special application power: 24 VDC. Maximum current: 300 mA. End-of-Line Resistor: 4.7K ohm. Output linked to NAC 1 control. Supervised and power-limited.

Telephone Interface: Unless used with Teldat VISORALARM, requires dedicated business telephone number with a minimum of 5 volts DC (off-hook voltage). Obtain dedicated phone line directly from your local phone company. Do not use shared phone lines or PBX (digital) type phone line extensions.

Cabinet Specifications

Door: 19.26" (48.92 cm.) high x 16.82" (42.73 cm.) wide x 0.12" (.30 cm.) deep. **Backbox:** 19.00" (48.26 cm.) high x

16.65" (42.29 cm.) wide x 5.20" (13.34 cm.) deep. **Trim Ring (TR-CE):** 22.00" (55.88 cm.) high x 19.65" (49.91 cm.) wide.

Shipping Specifications

Weight: 26.9 lbs. (12.20 kg.) **Dimensions:** 20.00" (50.80 cm.) high x 22.5" (57.15 cm.) wide x 8.5" (21.59 cm.) deep.

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

NFPA Standards

The MS-9200UDLS Rev 3 complies with the following NFPA 72 Fire Alarm Systems requirements:

- **LOCAL** (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- **AUXILIARY** (Automatic, Manual and Waterflow) (requires 4XTMF).
- **REMOTE STATION** (Automatic, Manual, Waterflow and Sprinkler Supervisory) (Where a DACT is not accepted, the alarm, trouble and supervisory relays may be connected to UL 864 listed transmitters. For reverse polarity signaling of alarm and trouble, 4XTMF is required.)
- **PROPRIETARY** (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- **CENTRAL STATION** (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- **OT, PSDN** (Other Technologies, Packet-switched Data Network)

Agency Listings and Approvals

The listings and approvals below apply to the basic MS-9200UDLS Rev 3 control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S624
- **FM approved**
- **CSFM:** 7165-0075:0208
- **MEA:** 120-06-E

For ULC-listed version, see DF-60599.

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For more information, contact Fire-Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105.
www.firelite.com



IPGSM-4G

IP Internet & GSM (4G/3G/2G) Dual Path Communicator

General

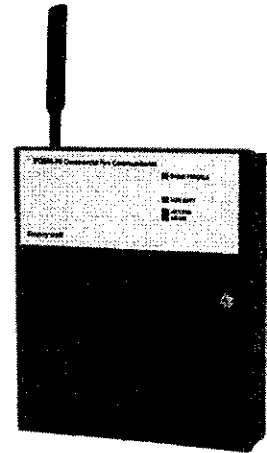
The IPGSM-4G is a 4G fire alarm communicator that offers contact ID reporting with any Fire Alarm Control Panel (FACP) that has a built-in dialer. This easy to install, dual path communicator connects directly to the primary and secondary communication ports of a Fire panel's Digital Alarm Communicator Transmitter (DACT). It offers three selectable reporting paths which include: (Cellular only), (IP only), or (IP primary/cellular backup). In the event of an off-normal condition, the fire panel sends contact ID formatted information to the IPGSM-4G communicator panel. The IPGSM-4G then reformats the data into highly encrypted Ethernet packets for transmission to the AlarmNet receiver via customer-provided Internet/Intranet connection or the GSM network.

Alternative communication methods are critical in the marketplace due to VoIP (Voice over IP), migration from POTS (Plain Old Telephone Service) and growth of digital radio networks. The IPGSM-4G's exclusive dual-path communications solution combines Internet service with GSM for added reliability and an extra level of security. All signals from the IPGSM-4G communicator panel are delivered to Honeywell's AlarmNet Network Control Center, which routes the information to the appropriate central station. The state of the art AlarmNet network control center is fully redundant and monitored 24/7. AlarmNet has the ability to route messages using AlarmNet-i and 800 PLUS services, providing true redundancy and multi-path message delivery.

The IPGSM-4G is designed to operate over the most common GSM networks including 2G, 3G and 4G. Its multi-GSM platform technology automatically chooses the best available cellular signal in the area based on signal strength and seamlessly self-adjusts to maintain critical life safety communication.

Features

- Saves the cost of two dedicated phone lines.
- Dual path communications. Can communicate to central station using Internet or cellular technology.
- Requires no change to the existing Fire Alarm Control Panel configuration. The IPGSM-4G connects directly to the primary and secondary telephone ports.
- Multi-GSM platform compatibility for 2G, 3G and 4G.
- Operates over the following communication protocols: HSPA+ (4G) HSPA (HSDPA & HSUPA) (3G) EDGE (2G) GPRS (2G).
- Works over any type of customer provided Ethernet 10/100
- Base network connection (LAN or WAN), DSL modem or cable modem.
- Data transmits over standard contact-ID protocol but is secured with the industry's advanced encryption standard (AES 256 bit).
- Supports both dynamic (DHCP) or Public and Private Static IP addressing.
- Built-In Power Supply module: On board charging circuit design accommodates back-up battery. Includes primary power and battery supervision.
- Diagnostic LEDs: Signal strength and status indications.



- Reliable connection: IP and GSM connection tested every day.
- QOS: Quality of Service diagnostics via AlarmNet conveys vital communicator information including when message was received, signal strength, and message path used.
- 7720P Hand-held programmer for easy setup.

Operation

When an event occurs, the Fire Alarm Control Panel goes off hook to dial the central station. The IPGSM-4G Dialer Capture Module detects the off-hook condition and provides the fire panel with a dial tone. When the fire panel detects the dial tone, it begins dialing the central station. After the dialing is completed, the Dialer Capture Module returns a handshake to the fire panel. The fire panel then sends the contact ID reports to the Dialer Capture Module, which in turn sends a kiss-off after the report is successfully received from the fire panel. The Dialer Capture Module sends the contact ID reports to the IPGSM communications module. When all the reports are sent, the fire panel goes on-hook. The IPGSM communications module then transmits the messages to the central station either over the GSM network or the Internet (dependent on configuration).

Easy to Program

The IPGSM-4G communicator can be pre-programmed using the 7720P programmer to enter all central-station information. This is saved to the IPGSM-4G communicator panel memory. When the IPGSM-4G communicator is installed at the site and connected to the Internet/Intranet, it registers itself with the AlarmNet receiver.

For most installations, the only required parameters are:

- Primary City ID (two digits) obtained from your monitoring station.
- Primary Central Station ID (two digits) obtained from your monitoring station.
- Primary Subscriber ID (four digits) obtained from your monitoring station.
- Communication Module's MAC ID, and MAC CRC number located on outside of box, and inside of the module.

All of these parameters are assigned by the monitoring station.

NOTE: Some assembly is required. See *Installation and Setup Guide #800-12454* for full details.

Panel Capabilities

The IPGSM-4G is compatible with fire panels that use the Contact ID communications format as described in the SIA DC-05 standard.

AlarmNet

Honeywell's AlarmNet has been the nationwide leader in alarm communications technology since 1986. A reliable alternative for the transmission of alarm signals, our radio network provides extensive coverage in the United States and Canada. AlarmNet Network Control center processes signals from powerful servers in multiple locations equipped with 24/7 infrastructure support. The AlarmNet network consist of redundant hardware servers, hot back-up databases and generators with battery back-up at all locations to ensure continuity of service. Signals from Alarm-Net are transmitted to the central station's receivers using multiple communications paths consisting of the Internet, radio network or toll-free POTS service.

Installation Requirements

UL COMPLIANCE

To meet UL864/NFPA, ensure the following:

- IPGSM-4G must be installed in accordance with NFPA (National Fire Protection Association) standards 70 and 72.
- IPGSM-4G must be mounted in the same room and within 20 feet of the fire panel.
- IPGSM-4G, and all equipment used for the IP connection (such as the router, hub, modem, etc.) shall be listed, must be powered from an un-switched branch circuit, and be provided with appropriate standby power.
- IPGSM-4G must use the 7AH battery (not supplied) to provide 24-hour backup capability.

Electrical Specifications

Transformer:

- Primary 120VAC, 60Hz, 0.5A.
- Secondary: 18VDC, 50VA.

Battery:

- One 12 V 7.0 AH lead-acid battery (not supplied).
- Battery charging current: 1 Amp maximum.
- Battery discharge current: Standby 230mA, Active 950mA.

Cabinet Specifications

Dimensions: 14.875" H x 12.75" W x 3.0" D (37.8 cm H x 32.4 cm W x 7.6 cm D).

Color: Red.

Shipping Specifications

Weight: 5.3 lbs. (6.94 kg).

Dimensions: 15.625" H x 13.79" W x 9.25" D (39.7 cm H x 34.9 cm W x 23.9 cm D)

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 - 49°C/32 - 120°F and at a relative humidity 93% ± 2% RH (non condensing at 32°C ± 2°C (90°F ± 3°F)). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 - 27°C/60 - 80°F.

Product Line Information

IPGSM-4G: Internet and Digital Cellular Fire Alarm Communicator Panel. Includes red cabinet with ademco key and lock, wall outlet box, Dialer Capture Module, iGSM Communications Module, antenna & mounting adapter, PowerBoost1 power supply, LED display board, transformer, manual, & required screws, cables, etc.

GSM-ANT3DB: 3db gain external/remote antenna.

7626-50HC: 50 ft. antenna cable, low loss.

7626-25HC: 25 ft. antenna cable, low loss.

WA7626-CA: SNA to N Adapter.

7720P: IPGSM-4G hand held programmer.

HPTCOVER: Plug in transformer box for IPGSM communicator.

BAT-1270: Battery 12 Volts, 7 AH, sealed.

Agency Listings and Approvals

The listings and approvals below apply to the basic IPGSM-4G communicator panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process.

Consult factory for latest listing status.

UL Listed: S789.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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DH-60769:A

April 2013

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QUALITY SYSTEMS

Honeywell



www.firelite.com

July 14, 2004

DF-52384 • E-160

SD355(A)/ SD355T(A) Addressable Photoelectric Smoke Detectors

Section: Addressable Devices

GENERAL

The Fire-Lite Alarms **SD355** and **SD355T** addressable, low-profile plug-in photoelectric detectors use a state-of-the-art photoelectric sensing chamber with communications to provide open area protection and are used exclusively with Fire-Lite's **MS-9200**, **MS-9200UD**, and **MS-9600** Addressable Fire Alarm Control Panels (FACPs). The **SD355T** adds thermal sensors that will alarm at a fixed temperature of 135°F (57°C). Since these detectors are addressable, they will help emergency personnel quickly locate a fire during its early stages, potentially saving precious rescue time while also reducing property damage. Two LEDs on each sensor light to provide a local, visible sensor indication. Remote LED annunciator capability is available as an optional accessory (P/N **RA400Z**).

FEATURES

SLC loop:

- Two-wire loop connection.
- Unit uses base for wiring, detector head plugs-in.

Addressing:

- Addressable by device.
- Direct Decade 01 – 99 (**MS-9200**, **MS-9200UD**) and 01 – 159 (**MS-9600**) entry of address.

Architecture:

- Unique single-source, dual-chamber design to respond quickly and dependably to a broad range of fires.
- Sleek, low-profile design.
- Integral communications and built-in type identification.
- Built-in tamper-resistant feature.
- Removable cover and insect-resistant screen for simple field cleaning.

Operation:

- Withstands air velocities up to 1,500 feet-per-minute (7.6 m/sec.) without triggering a false alarm.
- Factory preset at 1.5% nominal sensitivity for panel alarm threshold level.
- Visible LED "blinks" when the unit is addressed (communicating with the fire panel) and latches on in alarm.

Mechanicals:

- Sealed against back pressure.
- Direct surface mounting or electrical box mounting.
- Mounts to: single-gang box, 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box, or 4.0" (10.16 cm) square electrical box (using a plaster ring — included).



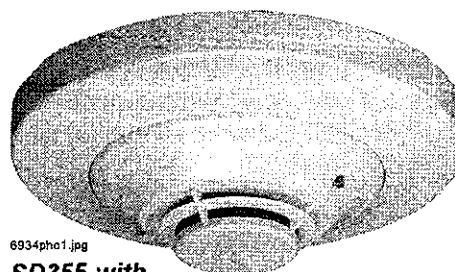
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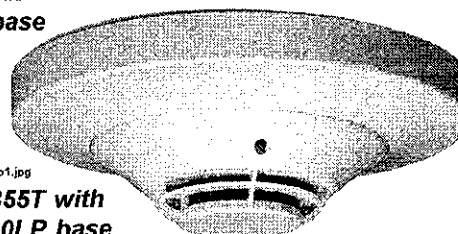


California
State Fire
Marshal
7272-0075:194



6934pho1.jpg

**SD355 with
B350LP base**



6935pho1.jpg

**SD355T with
B350LP base**

Other system features:

- Fully coated circuit boards and superior RF/transient protection.
- 94-V0 plastic flammability rating.
- Low standby current.

Options:

- Remote LED output connection (P/N **RA400Z**).

APPLICATIONS

Use photoelectric detectors in life-safety applications to provide a broad range of fire-sensing capability, especially where smoldering fires are anticipated. Ionization detectors are often better than photoelectric detectors at sensing fast, flaming fires.

Fire-Lite® Alarms is a Honeywell company.

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For more information, contact Fire-Lite Alarms, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll-Free FAX: (877) 699-4105.

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QUALITY SYSTEMS

CONSTRUCTION

These detectors are constructed of off-white LEXAN®. SD355(T) plug-in, low-profile smoke detectors are designed to commercial standards and offer an attractive appearance.

LEXAN® is a registered trademark of GE Plastics, a subsidiary of General Electric Company.

INSTALLATION

SD350(T) plug-in detectors use a detachable mounting base to simplify installation, service and maintenance. Mount base on box which is at least 1.5 inches (3.81 cm) deep. Suitable boxes include:

- 4.0" (10.16 cm) square box with plaster ring.
- 4.0" (10.16 cm) octagonal box.
- 3.5" (8.89 cm) octagonal box.
- Single-gang box.

NOTE: Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class B) wiring only.

OPERATION

Each SD355(T) uses one of 99 possible addresses on the MS-9200 and MS-9200UD Signaling Line Circuit (SLC), or up to 318 (159 on each loop) on the MS-9600 SLC. It responds to regular polls from the system and reports its type and status.

The SD355(T) addressable photoelectric sensor's unique unipolar chamber responds quickly and uniformly to a broad range of smoke conditions and can withstand wind gusts up to 1,500 feet-per-minute (7.6 m/sec.) without sending an alarm level signal. Because of its unipolar chamber, the SD355(T) is approximately two times more responsive than most photoelectric sensors. This makes it a more stable detector.

DETECTOR SENSITIVITY TEST

Each detector can have their sensitivity tested (required per NFPA 72, Chapter 7 on *Inspection, Testing and Maintenance*) when installed/connected to an MS-9200, MS-9200UD, or MS-9600 addressable fire alarm control panel. The results of the sensitivity test can be printed off the MS-9200, MS-9200UD, or MS-9600 for record keeping.

SPECIFICATIONS

Voltage range: 15 – 32 VDC (peak).

Standby current: 300 µA @ 24 VDC.

LED current: 6.5 mA @ 24 VDC (latched "ON").

Air velocity: 1,500 ft./min. (7.6 m/sec.) maximum.

Diameter: 6.1" (15.5 cm) installed in B350LP base.

Height: 2.1" (5.33 cm) installed in B350LP base.

Weight: 3.6 oz. (102 g).

Operating temperature range: for SD355: 0°C to 49°C (32°F to 120°F) SD350; for SD355T: 0°C to 38°C (32°F to 100°F).

Temperature: 0°C – 49°C (32°F – 120°F).

Relative humidity: 10% – 93%, non-condensing.

PRODUCT LINE INFORMATION

NOTE: "A" suffix indicates ULC-Listed model.

- SD355** Addressable photoelectric detector (B350LP base included).
- SD355A** Same as SD355 with ULC Listing (B350LPA base included).
- SD355T** Same as SD355 but with **thermal** element (B350LP base included).
- SD355TA** Same as SD355T with ULC Listing (B350LPA base included).
- RA400Z(A)** Remote LED. Mounts to a single-gang box.
- B350LP(A)** Plug-in detector base (included). **Dimensions:** 6.1" (15.5 cm). **Mounting:** 4.0" (10.16 cm) square box with or without plastic ring, 4.0" (10.16 cm) octagonal box, 3.5" (8.89 cm) octagonal box, or single-gang box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).
- B224RB(A)** Plug-in System Sensor **relay** detector base. **Diameter:** 6.2" (15.75 cm). **Mounting:** 4.0" (10.16 cm) square box with or without plastic ring, 4.0" (10.16 cm) octagonal box, or 3.5" (8.89 cm) octagonal box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).
- B224BI(A)** Intelligent isolator base, isolator SLC from shorts on the loop.
- B501BH(A)** Plug-in System Sensor **sounder** detector base. **Diameter:** 6.0" (15.24 cm). **Mounting:** 4.0" (10.16 cm) square box with or without plastic ring. Mounting box has a minimum depth of 1.5" (3.81 cm).
- B501BHT(A)** Same as B501BBH(A), but includes temporal sounder.

Accessories:

- RA400Z(A)** Remote LED annunciator. 3 – 32 VDC. Fits U.S. single-gang electrical box. *For use with B501(A) and B350LP(A) bases only.*
- SMK400** Surface mounting kit provides for entry of surface wiring conduit. *For use with B501(A) base only.*
- RMK400** Recessed mounting kit. *For use with B501(A) base only.*
- M02-04-01** Test magnet.
- XR-2** Detector removal tool. Allows installation and/or removal of detector heads from bases in high ceiling applications.
- XP-4** Extension pole for XR-2. Comes in three 5-ft. (1.524 m) sections.



www.firelite.com

July 14, 2004

DF-52384 - E-160

SD355(A)/ SD355T(A) Addressable Photoelectric Smoke Detectors

Section: Addressable Devices

GENERAL

The Fire-Lite Alarms SD355 and SD355T addressable, low-profile plug-in photoelectric detectors use a state-of-the-art photoelectric sensing chamber with communications to provide open area protection and are used exclusively with Fire-Lite's MS-9200, MS-9200UD, and MS-9600 Addressable Fire Alarm Control Panels (FACPs). The SD355T adds thermal sensors that will alarm at a fixed temperature of 135°F (57°C). Since these detectors are addressable, they will help emergency personnel quickly locate a fire during its early stages, potentially saving precious rescue time while also reducing property damage. Two LEDs on each sensor light to provide a local, visible sensor indication. Remote LED annunciator capability is available as an optional accessory (P/N RA400Z).

FEATURES

SLC loop:

- Two-wire loop connection.
- Unit uses base for wiring, detector head plugs-in.

Addressing:

- Addressable by device.
- Direct Decade 01 – 99 (MS-9200, MS-9200UD) and 01 – 159 (MS-9600) entry of address.

Architecture:

- Unique single-source, dual-chamber design to respond quickly and dependably to a broad range of fires.
- Sleek, low-profile design.
- Integral communications and built-in type identification.
- Built-in tamper-resistant feature.
- Removable cover and insect-resistant screen for simple field cleaning.

Operation:

- Withstands air velocities up to 1,500 feet-per-minute (7.6 m/sec.) without triggering a false alarm.
- Factory preset at 1.5% nominal sensitivity for panel alarm threshold level.
- Visible LED "blinks" when the unit is addressed (communicating with the fire panel) and latches on in alarm.

Mechanicals:

- Sealed against back pressure.
- Direct surface mounting or electrical box mounting.
- Mounts to: single-gang box, 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box, or 4.0" (10.16 cm) square electrical box (using a plaster ring — included).



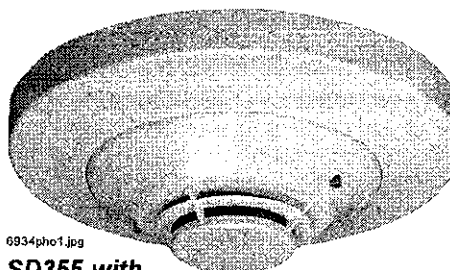
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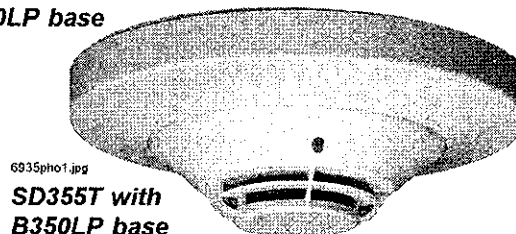


California
State Fire
Marshal
7272-0075:194



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SD355 with
B350LP base



6935photo1.jpg

SD355T with
B350LP base

Other system features:

- Fully coated circuit boards and superior RF/transient protection.
- 94-V0 plastic flammability rating.
- Low standby current.

Options:

- Remote LED output connection (P/N RA400Z).

APPLICATIONS

Use photoelectric detectors in life-safety applications to provide a broad range of fire-sensing capability, especially where smoldering fires are anticipated. Ionization detectors are often better than photoelectric detectors at sensing fast, flaming fires.

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CONSTRUCTION

These detectors are constructed of off-white LEXAN®. SD355(T) plug-in, low-profile smoke detectors are designed to commercial standards and offer an attractive appearance.

LEXAN® is a registered trademark of GE Plastics, a subsidiary of General Electric Company.

INSTALLATION

SD350(T) plug-in detectors use a detachable mounting base to simplify installation, service and maintenance. Mount base on box which is at least 1.5 inches (3.81 cm) deep. Suitable boxes include:

- 4.0" (10.16 cm) square box with plaster ring.
- 4.0" (10.16 cm) octagonal box.
- 3.5" (8.89 cm) octagonal box.
- Single-gang box.

NOTE: Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class B) wiring only.

OPERATION

Each SD355(T) uses one of 99 possible addresses on the MS-9200 and MS-9200UD Signaling Line Circuit (SLC), or up to 318 (159 on each loop) on the MS-9600 SLC. It responds to regular polls from the system and reports its type and status.

The SD355(T) addressable photoelectric sensor's unique unipolar chamber responds quickly and uniformly to a broad range of smoke conditions and can withstand wind gusts up to 1,500 feet-per-minute (7.6 m/sec.) without sending an alarm level signal. Because of its unipolar chamber, the SD355(T) is approximately two times more responsive than most photoelectric sensors. This makes it a more stable detector.

DETECTOR SENSITIVITY TEST

Each detector can have their sensitivity tested (required per NFPA 72, Chapter 7 on *Inspection, Testing and Maintenance*) when installed/connected to an MS-9200, MS-9200UD, or MS-9600 addressable fire alarm control panel. The results of the sensitivity test can be printed off the MS-9200, MS-9200UD, or MS-9600 for record keeping.

SPECIFICATIONS

Voltage range: 15 – 32 VDC (peak).

Standby current: 300 µA @ 24 VDC.

LED current: 6.5 mA @ 24 VDC (latched "ON").

Air velocity: 1,500 ft./min. (7.6 m/sec.) maximum.

Diameter: 6.1" (15.5 cm) installed in B350LP base.

Height: 2.1" (5.33 cm) installed in B350LP base.

Weight: 3.6 oz. (102 g).

Operating temperature range: for SD355: 0°C to 49°C (32°F to 120°F) SD350; for SD355T: 0°C to 38°C (32°F to 100°F).

Temperature: 0°C – 49°C (32°F – 120°F).

Relative humidity: 10% – 93%, non-condensing.

PRODUCT LINE INFORMATION

NOTE: "A" suffix indicates ULC-Listed model.

- SD355** Addressable photoelectric detector (B350LP base included).
- SD355A** Same as SD355 with ULC Listing (B350LPA base included).
- SD355T** Same as SD355 but with **thermal** element (B350LP base included).
- SD355TA** Same as SD355T with ULC Listing (B350LPA base included).
- RA400Z(A)** Remote LED. Mounts to a single-gang box.
- B350LP(A)** Plug-in detector base (included). **Dimensions:** 6.1" (15.5 cm). **Mounting:** 4.0" (10.16 cm) square box with or without plastic ring, 4.0" (10.16 cm) octagonal box, 3.5" (8.89 cm) octagonal box, or single-gang box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).
- B224RB(A)** Plug-in System Sensor **relay** detector base. **Diameter:** 6.2" (15.75 cm). **Mounting:** 4.0" (10.16 cm) square box with or without plastic ring, 4.0" (10.16 cm) octagonal box, or 3.5" (8.89 cm) octagonal box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).
- B224BI(A)** Intelligent isolator base, isolator SLC from shorts on the loop.
- B501BH(A)** Plug-in System Sensor **sounder** detector base. **Diameter:** 6.0" (15.24 cm). **Mounting:** 4.0" (10.16 cm) square box with or without plastic ring. Mounting box has a minimum depth of 1.5" (3.81 cm).
- B501BHT(A)** Same as B501BBH(A), but includes temporal sounder.

Accessories:

- RA400Z(A)** Remote LED annunciator. 3 – 32 VDC. Fits U.S. single-gang electrical box. *For use with B501(A) and B350LP(A) bases only.*
- SMK400** Surface mounting kit provides for entry of surface wiring conduit. *For use with B501(A) base only.*
- RMK400** Recessed mounting kit. *For use with B501(A) base only.*
- M02-04-01** Test magnet.
- XR-2** Detector removal tool. Allows installation and/or removal of detector heads from bases in high ceiling applications.
- XP-4** Extension pole for XR-2. Comes in three 5-ft. (1.524 m) sections.