



CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII C18-001128

I. IDENTIFICATION

1. Proposed Work Site at: Home Depot #0912 1722 New Jersey 88 Brick NJ 08724

2. Name of Owner in Fee: Telgain Corp.
 Tel. (877) 835-4426 e-mail _____
 Address 1400 Sheldon Rd Plymouth MI 48170
street municipality zip code

3. Ownership in Fee: Public ☒ Private _____

4. Principal Contractor: MARCO Protection Systems LLC Tel. (610) 363-2233
 Address 288 Boot Rd e-mail david.lyons@marcofire.co
Downingtown Pa 19335

License No. OR, if new home, Builder Reg. No. P01505 Exp. Date 10/31/2018

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 81-102906 FAX: (610) 363-2886

5. Architect or Engineer _____ Contact _____
 Address _____ e-mail _____
 Tel. _____ FAX: _____

6. Responsible Person in Charge once Work has Begun David Lyons
 Tel. _____ FAX: (610) 363-2886

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ <u>15.8</u>	☒	
2. Electrical		☒	
3. Plumbing		☒	
4. Fire Protection		☒	
5. Elevator Devices			
6. Subtotal			
7. Less 20% for State Plan Review	\$ _____		
8. Subtotal	\$ _____		
9. State Permit Surcharge Fee	\$ _____		
10. Subtotal	\$ <u>15.8</u>		
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$ _____		

VI. BUILDING/SITE CHARACTERISTICS

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

IIa. PROPOSED WORK

- ☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition
- ☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction
- ☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

Alarms

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
	<i>[Signature]</i>			<u>4/2/18</u>	<i>[Signature]</i>		
	<i>[Signature]</i>			<u>4/2/18</u>	<i>[Signature]</i>		

TOTAL COST \$0

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group, Proposed: Select Group
3. Change in Use Group, Indicate Present: Select Group
4. No. of dwelling units: Total Units Income-restricted
- Gained, Sale _____
- Gained, Rental _____
- Lost, Sale _____
- Lost, Rental _____

B. NON-RESIDENTIAL (primary use)

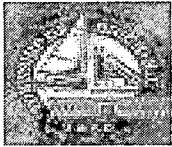
1. State Specific Use: _____
2. Use Group, Proposed: Select Group Select Group
3. Change in Use Group, Indicate Present
- C. MIXED USE -List secondary use(s): _____
- D. Construct. Classification: Present, _____ Proposed _____

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 3/20/2019
Control Number C-18-001128
Permit Number 19-0224
Permit Issue Date 1/25/2019
Certificate Number 19-0224

Certificate

Construction Code Division
(Certificate of Approval)

Identification

Work Site Location: 1722 ROUTE 88 Brick Township, NJ Block: 1170 Lot: 5 Qual: _____
Owner in Fee: JSM AT ROUTE 88 LLC
Owner Address: 1260 STELTON RD PISCATAWAY NJ 08854
Telephone: (877) 835-4426
Contractor: MARCO PROTECTION SYSTEMS LLC
Address: 288 BOOT ROAD DOWNINGTOWN PA 19335
Telephone: (610) 363-2233 Fax: (610) 363-2886
License Number or Builders Registration Number: _____ Federal Emp. Number: _____

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: ALTERATION - COMMERCIAL - - HOME DEPOT ...ALARMS

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: _____

LOT _____

QUALIFICATION CODE _____

ADDRESS (SITE) _____

PERMIT NO. _____



CONSTRUCTION PERMIT APPLICATION

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

I. IDENTIFICATION

1. Proposed Work Site at: Home Depot #0912 1722 New Jersey 88 Brick NJ 08724

2. Name of Owner in Fee: Telgain Corp.
 Tel. (877) 835-4426 e-mail _____
 Address 1400 Sheldon Rd Plymouth MI 48170
street municipality zip code

3. Ownership in Fee: Public ☒ Private _____

4. Principal Contractor: Marco Protection Systems LLC Tel. (610) 363-2233
 Address 288 Boot Rd e-mail david.lyons@marcofire.co
Downingtown Pa 19335

License No. OR, if new home, Builder Reg. No. P01505 Exp. Date 10/31/2018

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 81-102906 FAX: (610) 363-2886

5. Architect or Engineer _____ Contact _____
 Address _____ e-mail _____
 Tel. _____ FAX: _____

6. Responsible Person in Charge once Work has Begun David Lyons
 Tel. _____ FAX: (610) 363-2886

V. FEE SUMMARY (for office use only)

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

VI. BUILDING/SITE CHARACTERISTICS

(office use only)

1. Number of Stories _____ ft.

2. Height of Structure _____ ft.

3. Area — Largest Floor _____ sq. ft.

4. New Building Area _____ sq. ft.

5. Volume of New Structure _____ cu. ft.

6. Max. Live Load _____

7. Max. Occupancy Load _____

8. If Industrialized Building: State Approved _____ HUD _____

9. Total Land Area Disturbed _____ sq. ft.

10. Flood Hazard Zone _____

11. Base Flood Elevation _____ ft.

12. Wetlands yes _____ no _____

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 Approval	Rejection	Re-viewer

TOTAL COST \$0

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group, Proposed: Select Group _____
3. Change in Use Group, Indicate Present: Select Group _____
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: Select Group _____ Select Group _____
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

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, including such certification as the construction official may require, have been given or will be given prior to permit issuance.

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, including such certification as the construction official may require, have been given or will be given prior to permit issuance.

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.

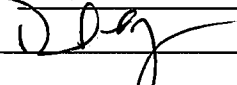
I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name Marco Protection Systems LLC

Address 288 Boot Rd. Downingtown PA 19335

Telephone (610) 363-2233

Signature 

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:23-2.15(b)4.

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



FIRE PROTECTION SUBCODE TECHNICAL SECTION



NW

Date Received
Control #

1/25/19

Date Issued
Permit #

19-0224

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

Block 1170 Lot 5 Qualification Code _____

Work Site Location Home Depot #0912
1722 New Jersey 88

Owner in Fee: Telgian

Tel. (877) 835-4426 e-mail _____

Address 1400 Sheldon Rd Plymouth MI 48170

Contractor: Marco Protection Systems LLC Tel. (610) 363-2233

Address 288 Boot Rd e-mail david.lyons@marcofire.com

Downingtown, PA 19335

Fire Protection Equipment, NJ Div of Fire Safety Permit No. P01505

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

Fire Alarm Contractor No. _____ Exp. Date 10/31/2018 4/30/20

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 81-102906 FAX: (610) 363-2233

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 \$ 7,000

Fuel Storage Tank:

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

Fire Alarm System: [] New OR ☒ Existing

Location of Panel: Data Room

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: David Lyons

D. TECHNICAL SITE DATA

☒ Certified Contractor [] Exempt Applicant

DESCRIPTION OF WORK:

Water Supply Source Insatll CO detectors

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)	<u>30</u>	
Supervisory Devices (i.e., tampers, low/high air)		
Signaling Devices (i.e., horn/strobes/bells)		
Other Devices		
TOTAL	<u>31</u>	
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 _____		

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

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

[] Partial - Underslab Utilities Approved

Date: _____ Approved by: _____

[] Fire Protection Plans Approved

Date: _____ Approved by: _____

Joint Plan Review Required:

[] Bldg. [] Elec. [] Plumb. [] Elev.

SUBCODE APPROVAL for PERMIT

Date: 4-3-18

Approved by: [Signature]

SUBCODE APPROVAL for CERTIFICATE

[] CO [] CCO [] CA

Date: 3-27-18

Approved by: [Signature]

INSPECTIONS

Type:	Failure	Failure	Approval	Initial
Alarm System			<u>3/13/18</u>	<u>PA</u>
Suppression Sys.				
Standpipe				
Fire Pump				
Pre-Eng. System				
Mechanical				
Smoke Control				
TCO				
Flam/Combust. Tanks				
Fireplace Venting				
Final			<u>3/13/18</u>	<u>PA</u>
Other				



Carbon Monoxide Detection
The Home Depot
Brick, NJ
Store # 0912

TELGIAN ENGINEERING & CONSULTING

ENGINEERS • CONSULTANTS • ANALYSTS • ASSESSORS

EMERGENCY MANAGEMENT & OPERATIONS CONTINUITY • ENGINEERING, DESIGN & CONSTRUCTION

ENVIRONMENTAL, HEALTH & SAFETY • FIRE PROTECTION ENGINEERING • RISK MANAGEMENT & LOSS CONTROL • SECURITY RISK CONSULTING

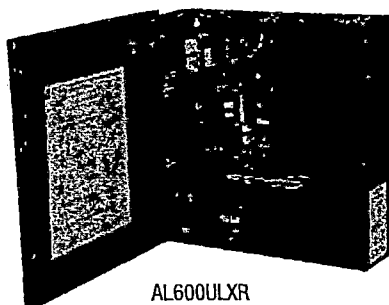
14500 Sheldon Road, Suite 120, Plymouth MI 48170

www.telgian.com



AL600ULXR Power Supply/Charger

Rev. DSAL600ULXR_04232015



AL600ULXR

Overview

AL600ULXR is a power supply/charger that converts a 115VAC/60Hz input into a single 12VDC or 24VDC non power-limited output.

Specifications

Input:

- Input 115VAC, 60Hz, 3.5 amp.

Output:

- 12VDC or 24VDC selectable output.
- 6 amp continuous supply current.
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.

Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switch over to stand-by battery when AC fails.
- Maximum charge current 0.7 amp.

Supervision:

- AC fail supervision (form "C" contacts).
 - Notification trigger is selectable for 30 seconds (factory set) or 6 hours.

Supervision (cont'd):

- Low battery supervision (form "C" contacts).
- Battery presence supervision (form "C" contacts).

Visual Indicators:

- AC input and DC output LED indicators.

Electrical:

- Operating temperature: 0° C to 49° C ambient.
- 36.85 or 73.70 BTU/Hr.
- System AC input VA requirement: 402.5VA.

Mechanical:

- Enclosure Dimensions (H x W x D approx.):
 - 13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm)
 - Accommodates up to two (2) 12VDC/7AH batteries.
- Product weight (approx.): 7.6 lbs. (3.45 kg).
- Shipping weight (approx.): 8.5 lbs. (3.86 kg).

Agency Approvals



UL 294 UL Listed for Access Control
System Units.
UL 1481 UL Listed Standard for Safety for
Fire Protective Signaling Systems.



General Signaling Equipment
Evaluated to CSA Standard C22.2
No.205-M1983

MEA
Approved

MEA - NYC Department of
Buildings Approved.



CSFM - California State Fire
Marshal Approved.

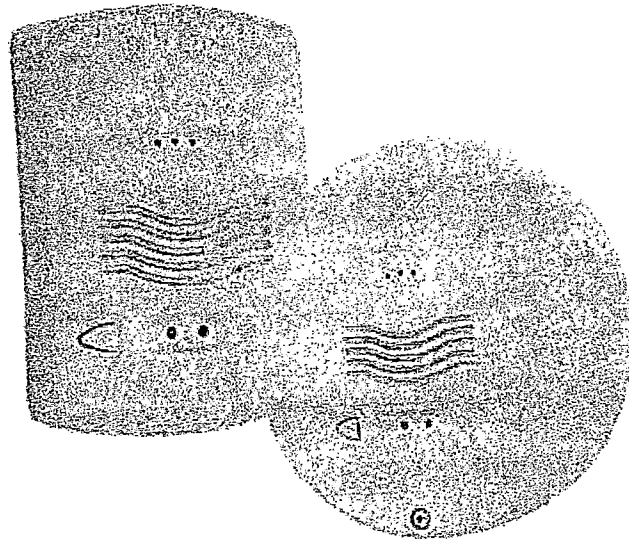


CO1224T and CO1224TR Carbon Monoxide Detectors with RealTest® Technology

*The System Sensor CO1224T and CO1224TR (round)
Carbon Monoxide (CO) Detectors use a highly accurate
and reliable electrochemical sensing cell to provide early
warning of dangerous CO levels.*

Features

- RealTest® enables a functional test using canned CO
- Full compliance with UL 2075
- A code-required trouble relay
- Wiring supervision with SEMS terminals
- A six-year end-of-life timer
- 12/24 VDC
- A low current draw of 20 mA in standby and 40 mA in alarm
- Versatile mounting for wall and ceiling
- Accurate and reliable electrochemical sensing technology
- Optional CO-PLATE CO Detector Replacement Plate to upgrade previously installed competitor detectors to the CO1224T



With RealTest® technology, the CO gas sensing cell used in the CO1224T and CO1224TR CO detectors can be tested using a CO gas agent, fully meeting the requirements of NFPA 720: 2009. Simply put the detector into RealTest mode, spray a small amount of CO into the detector per the installation instructions, and within seconds the detector will alarm, indicating successful gas entry. (See the reverse page or the user manual for complete instructions.)

When dangerous amounts of CO are detected, the CO1224T and CO1224TR detectors alert residents by sounding and flashing a temp 4 signal alarm. With 24/7 central station monitoring, residents are guaranteed protection whether they are away from home, sleeping, or already suffering from the effects of CO.

The CO1224T and CO1224TR are designed for system operation. These detectors are fully listed to UL 2075 and offer a code-required trouble relay to send a sensor failure or end-of-life signal to the control panel and the central station. The CO1224T and CO1224TR also use SEMS-type terminal Philips head screws for quicker and more positive wiring connections and code-required wiring supervision. With a low current draw, these detectors enable more devices to be connected to the panel, limiting the need to purchase extra power supplies or more expensive panels. As 12/24 VDC detectors, the CO1224T and CO1224TR will operate on most industry security and fire alarm control panels.

Agency Listings





**SILENT
KNIGHT**

by Honeywell

SD500-AIM & SD500-MIM Addressable Input Modules

IntelliKnight's addressable contact monitor modules combine fast response with pinpoint location ID. A combination that saves lives and property.

The SD500-AIM and SD500-MIM are addressable input modules for use with Silent Knight IntelliKnight fire alarm control panels (FACP). The SD500-AIM and SD500-MIM are designed to be used with pull stations, water flow switches, and other applications requiring dry contact alarm initiation devices.

The SD500-AIM addressable input module mounts to a 4"-square box. The SD500-MIM mini input module fits inside a single gang box. The modules are supervised, single input contact monitors. Using an EOL resistor, they monitor for alarm contact closures and for open circuit wiring fault conditions.

The SD500-AIM and SD500-MIM offer a compact design for adaptability and pleasing aesthetics as well as easy installation and stable operation—a flexible solution for all your fire protection needs.

For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-328-0103.

Description

The SD500-AIM and SD500-MIM are addressable input modules for use with the IntelliKnight fire alarm control panels (FACPs). The SD500-AIM addressable input module mounts to a 4"-square box. The SD500-MIM mini input module fits inside a single gang box. Both input modules are designed to be used with pull stations, water flow switches, and other applications requiring dry contact alarm initiation devices.

These modules are supervised, single input contact monitors. Using an EOL resistor, they monitor for alarm contact closures and for open circuit wiring fault conditions. If a fault occurs in the wiring, the module alerts the FACP. Each addressable input module is programmed with a unique signal line circuit (SLC) loop address.

Features

- Single contact monitor
- SD500-AIM supports Class A (Style D) or Class B (Style B) contact monitor wiring
- SD500-MIM support for Class B (Style B) contact monitor wiring
- Attractive ivory cover plate with the SD500-AIM
- Small and lightweight size allows for flexible mounting options with the SD500-MIM

- DIP switch programmable for fast installation
- Up to 2500 ft wiring distance from either input module to contact
- Use up to 14 gauge wire
- UL listed

Electrical Specifications

Standby Current: 0.55 mA

Alarm Current: 23 mA max for one device; 46 mA max for two devices; 0.55 mA for each additional device

Line Resistance: 50 Ω max

Mechanical Specifications

SD500-AIM Physical Description

Dimensions:
4.9" W x 4.9" H x 1" D
(12.4 W x 12.4 H x 2.5 D cm)
Weight: 3.6 oz (120.1 g)
Color: Ivory cover plate

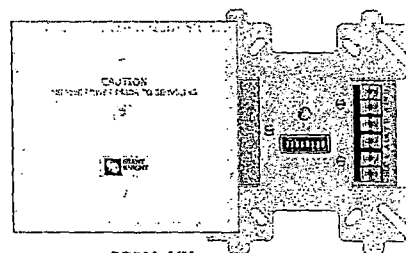
SD500-MIM Physical Description

Dimensions:
1.5" W x 2.5" H x 0.7" D
(3.8 W x 6.4 H x 1.8 D cm)
Weight: 1.6 oz (45.4 g)

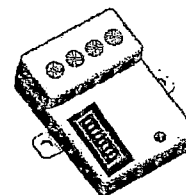
Environmental

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

Humidity:
10% – 93% non-condensing



SD500-AIM

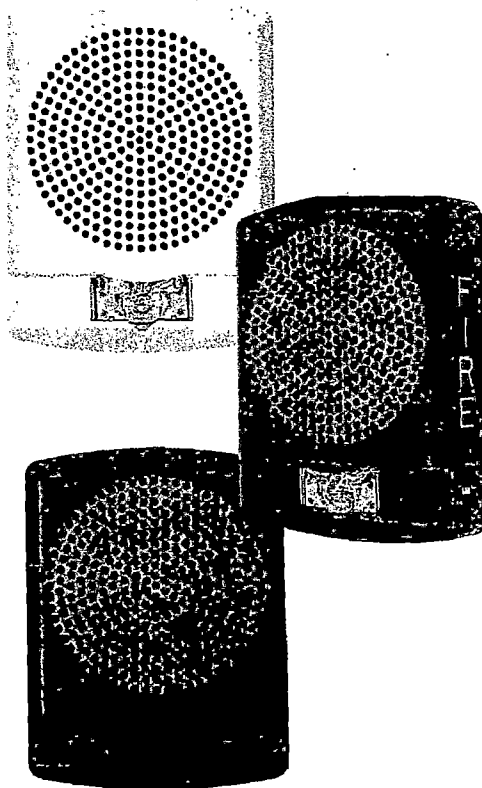


SD500-MIM

Approvals

NFPA 71 & NFPA 72
UL 864
CSFM 7300-0559: 132
MEA 429-92-E Vol. IX
FM Approved for use with the 5820XL

Exceder LED Low Frequency Sounder Strobes and Sounders



Description

Eaton's Cooper Notification business has developed the Wheelock Exceder LED Low Frequency Sounder Strobes and Sounders to meet the new National Fire Protection Association (NFPA) low frequency sounder requirements for sleeping rooms - NFPA 72 for fire alarm and NFPA 720 for Carbon Monoxide (CO) alarm. In a single device, the Exceder LED Low Frequency Sounders can provide alarm signals for dual applications-T3 (Fire) and T4 (CO) tones. It is the first product in the industry to be listed to the audibility requirements of UL 2034 and UL 2075 for CO applications.

The Exceder LED Low Frequency Sounder Strobes and Sounders feature multiple 520 Hz modes of operation: T3 (fire), T4 (CO), Continuous, T3/T4 Sync Control.

The 520 tone is generated within the appliance itself. When the selector switch is set for T3 or T4, the sound pattern is also generated within the appliance. When the selection switch is set to continuous, the product is listed for coded operations. The T3/T4 pattern or other pattern must be generated by the FACP according to the alarm condition sensed by the panel (fire or CO alarm).

When the device is set to T3/T4, the appliance can switch from T3 to T4 based upon the condition sensed by the FACP and passed to the Wheelock DSM module.

Like the entire Wheelock Exceder LED product line, the Low Frequency Sounder Strobes will utilize Light Emitting Diode (LED) as the light source—a breakthrough optical design, resulting in best-in-class efficiency that enables material and system cost savings, allowing for a greater number of appliances on the notification appliance circuit and fewer power supplies. All LLFHS strobe models include a 110 candela setting.

Providing a sleek aesthetic appearance, the Exceder LLFHS and LLFHN models feature one of the industry's smallest footprints and a sleek, modern, low-profile design. Installers will benefit from its comprehensive feature list, multiple 520 Hz modes of operation, lowest current draw, no tools needed for setting changes, and convenient mounting options. These products are suitable for indoor wall-mount applications. The Sounder and Sounder Strobe models are for 24V operation.

Exceder LED Sounder Strobes may be synchronized when used in conjunction with the DSM Sync Modules, Wheelock Power Supplies or other manufacturers panels incorporating the Wheelock Patented Sync Protocol. Wheelock synchronized strobes offer an easy way to comply with ADA recommendations concerning photosensitive epilepsy.

The Exceder LED Low Frequency Sounders and Sounder Strobes are UL Listed for indoor use under Standard 1971 and 464 and ULC under S525 and S526. The appliances are Restriction of Hazardous Substances (RoHS) compliant and contain no mercury or other hazardous substances.

EAT•N

Powering Business Worldwide

Table 3. Sound Output (SPL) - UL

LLFHS/LLFHN 24V Reverberant dBA per UL 464			
Description	16.0V	24.0V	33.0V
Continuous	80	80	80
Code 3	76	76	76
Code 4 ^b	85	85	85
Code 3/Code 4	76	76	76

Table 4. Sound Output (SPL) - ULC

LLFHS/LLFHN dBA per ULC S525-07 ^c			
Description	16.0V	24.0V	33.0V
Continuous	80	80	80
Code 3	80	80	80
Code 4	80	80	80
Code 3/Code 4	80	80	80

Table 5. Specification & Ordering Information

Model	Strobe Candela	Red	White	Lettering	Sync w/ DSM or Wheelock Power Supplies
Sounder Strobes					
LLFHSR	110	X		FIRE	X
LLFHSW	110		X	FIRE	X
LLFHSR-AL	110	X		ALERT	X
LLFHSW-AL	110		X	ALERT	X
LLFHSR-CO	110	X		CO	X
LLFHSW-CO	110		X	CO	X
LLFHSR-N	110	X		No Lettering	X
LLFHSW-N	110		X	No Lettering	X
Sounders					
LLFHNR-AL		X		ALERT	X
LLFHNW-AL			X	ALERT	X
LLFHNR-CO		X		CO	X
LLFHNW-CO			X	CO	X
LLFHNR-N		X		No Lettering	X
LLFHNW-N			X	No Lettering	X
Accessories					
LSPKBB-R	0756	Description		Red	White
LSPKBB-W	0757	Exceder LED Backbox		X	
		Exceder LED Backbox			X

Table 6. Specifications

Physical	
Material	Red or white textured UV stabilized, colored impregnated engineered plastic. Exceeds 94V-0 UL flammability rating
Weight	1.10 lbs.
Lens	Light Emitting Diode (LED) in a rugged Lexan lens
Dimensions	6.1" H x 4.56" W x 1.4" D
Operating Temperature	Indoor: 33.8°F to 120.2°F (0°C to 49°C) and maximum humidity of 85%
Mounting & Wire Connections	
Mounting (indoor only)	Wall-mount applications for sounder strobe (LLFHS); Wall and ceiling-mount applications for the sounder only model (LLFHN). Exceder LSPKBB backboxes or to 4" square backboxes
Wire Connections	#12 through #18 AWG
Power & General	
Operating voltage	24 VDC: 16- 33 VDC
Strobe Output Rating	UL 1971: 110 candela output
Strobe Flash Rate	Strobes are designed to flash at 1 flash per second
Synchronization Models	Strobes can be synchronized with Wheelock's DSM Sync Modules, PS-6/8 Power Supplies, using Wheelock patented sync protocol
Temporal Audible Pattern	Continuous, Code 3, Code 4 or Code 3/Code 4 Sync Control. The Code 3 temporal pattern (1/2 second on, 1/2 second off, 1/2 second on, 1/2 second off, 1/2 second on, 1-1/2 off and repeat) is specified by ANSI and NFPA 72 for standard emergency evacuation signaling. The Code 4 temporal pattern (four cycles of 100 milliseconds ± 10 percent "on" and 100 milliseconds ± 10 percent "off," followed by 5 seconds ± 10 percent "off") is specified by NFPA 720.

^a RMS current ratings are per UL maximum RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33V). For strobes the UL max current is usually at the minimum listed voltage. For audibles the max current is usually at the maximum listed voltage. For unfiltered FWR ratings, see installation instructions.

^b Code 4 setting rated per UL 2075, UL 2034.

^c For dwelling use only.



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 1170 Lot 5 Qualification Code _____

Work Site Location Home Depot #0912
1722 New Jersey 88 Brick NJ 08724

Owner in Fee: Telgian

Tel. (877) 835-4426 e-mail _____

Address 33300 5 Mile Rd Livonia MI 48154

Contractor: Marco Protection Systems Tel. (610) 363-2233

Address 288 Boot Rd e-mail david.lyons@marcofire.com

Downingtown, PA 19335

Contractor License No. P01505 Exp. Date 10/31/2018

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 81-102906 FAX: _____

B. ELECTRICAL CHARACTERISTICS

Use Group Present _____ Proposed _____

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

Building Occupied as _____ Utility Co. _____

Est. Cost of Elec. Work \$ 3,000

JOB SUMMARY (Office Use Only)		INSPECTIONS		Dates (Month/Day)	
PLAN REVIEW		Type	Failure	Failure	Approval Initial
[] No Plans Required		Rough			
[] Partial - Underslab Utilities Approved		Barrier-Free			
Date: _____ Approved by: _____		Trench			
[] Electric Plans Approved		Temp. Serv.			
Date: <u>4/2/18</u> Approved by: <u>AX</u>		Constr. Serv.			
Joint Plan Review Required:		TCO			
[] Bldg. [] Plumb. [] Fire. [] Elev.		Other			
SUBCODE APPROVAL for PERMIT		Service			
Date: <u>4/2/18</u>		Final			
Approved by: <u>[Signature]</u>		Barrier-Free			
SUBCODE APPROVAL for CERTIFICATE		Temp. Cut-in-Card	Date Issued		
[] CO [] CCO [] CA		Final Cut-in-Card	Date Issued		
Date: <u>3/14/19</u>		Annual Pool Inspection			
Approved by: <u>[Signature]</u>		Date of Grounding and Bonding			
		Certification			

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: [Signature]

Print name here: David Lyons

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

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:
Wiring for CO detectors

QTY.	SIZE	ITEMS	FEE (Office Use Only)
_____	_____	Lighting Fixtures	_____
_____	_____	Receptacles	_____
_____	_____	Switches	_____
<u>30</u>	_____	Detectors	_____
_____	_____	Light Poles	_____
_____	_____	Motors—Fract. HP	_____
_____	_____	Emergency & Exit Lights	_____
_____	_____	Communications Points	_____
<u>1</u>	_____	Alarm Devices/F.A.O. Panel	_____
<u>1</u>	_____	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	\$ _____



CONSTRUCTION PERMIT

Date Issued 1/25/19
Control # C-18-001128
Permit # 19 0224

IDENTIFICATION Block: 1170 Lot: 5 Qualifier _____
Work Site Location: 1722 ROUTE 88 Brick Township, NJ Contractor MARCO PROTECTION SYSTEMS LLC
Address 288 BOOT ROAD DOWNINGTOWN PA 19335
Owner in Fee JSM AT ROUTE 88 LLC Telephone: (610) 363-2233
1260 STELTON RD PISCATAWAY NJ 08854 Lic. No. or Bldrs. Reg. No. _____
Telephone: (877) 835-4426 Federal Employee No. _____

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:

ALTERATION - COMMERCIAL - HOME DEPOT ALARMS

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 \$10,000

D. Hausman Jr. Inc
Construction Official

4/16/18
Date

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

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

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:

1. 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.
2. Foundations and all walls up to grade level prior to back filling.
3. 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.
4. 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.