

EXP-EXTRM-40FT-PKG-V4

C1D1 Explosion Proof Extraction Room Equipment Package - Designed for 40' Container

Extraction Rooms - CO2 Sensor

Product ID: 264606



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EXP-EXTRM-40FT-PKG-V4 Explosion Proof Extraction Room Package

EXP-EMG-EXT-LE6-1L Explosion Proof Exit Sign

Quantity: 1
Listing: United States & Canada
Lamp Type: LED
Dimensions: 14.8"L x 12"H x 8"
Voltage: 120-277V AC
Watts: 1.1
Lighting Configuration: Back Illuminated Sign Panel
Battery Backup Runtime: 3 Hours
Battery Backup: Nickel Cadmium Battery Pack
Faceplate Color: Copper Free Aluminum Housing
Materials: Red or Green
Mounting: Ceiling Mount, Pendant Mount or Wall Mount
Wiring: 3/4" NPT Wiring Hub

Exit Sign - Ratings/Approvals

Class I, Divisions 1 & 2, Groups A, B, C, D
Class I, Zones 1 & 2, Groups IIB+H2
Class II, Divisions 1 & 2, Groups E, F, G
Class III Divisions 1 & 2
3 Hour Emergency Runtime
Self-Testing Unit

EPO-20A Explosion Proof Power Outlet

Quantity: 4
Unit Dimensions: 3"W x 5.69"D x 6.13"H
Receptacle Current Rating: 20 Amp
Configuration: 3 Pole 2 Wire
Number of Poles: 3
Conduit Openings: 3/4"
Mating Plugs: ****[EPP-15A](#), [EPP-20-A](#)****
Grounding: Housing only
Unit Materials: Box- Iron /Receptacle- Copper Free Aluminum (4/10 of 1% max.)
Finish: Box-Triple Coat / Receptacle-Epoxy Powder Coat

Power Outlet - Ratings/Approvals

Certified to UL Standard: No.-
22.2,25,C22.2,30,C22.2,42,C22,159
Certified to UL E10784, E81751
Certified to CSA C22.2 No. 182.1
Certified to CSA 065179
NEMA 3, 3R, 7BCD, 9FG
Class I Divisions 1 & 2 Groups B*,C, D
Class II Divisions 1 & 2 Groups F and G
Class III

Insulating Blocks: Fiber Glass Reinforced Polyester

*Suitable for use in Class I, Division 1, Group B
when used with external seals.

EPF-HPSM-24-1HP Explosion Proof High Volume Ventilation Fan

Quantity: 4

Type: High Pressure High Volume Ventilation Fan

Propeller Dimensions: 24" Diameter

Propeller Material: Spark-Resistant Cast Aluminum

Weight: 47 lbs

Voltage: Multi-Voltage - 115-230V AC

Motor: 1 HP Fully Enclosed Explosion Proof

Full Load Amps: 13A @ 115V, 6.5A @ 230V

Rotations Per Minutes (RPM): 1750

Peak CFM (@ 0" SP): 7820

Max Sones @ 5': 35.4

Wiring: Hard-Wire

Mounting: Permanent Mount

Ventilation Fan - Ratings/Approvals

Listed for United States

Class I, Divisions 1 & 2, Group D

Class II, Divisions 1 & 2, Groups F & G

Spark-Resistant Propeller

Up To 7820 CFM Air Movement

Rated for Hazardous Environments

Includes (4) Manual Louvers

Made in the USA

EXP-SNR-TG-EC-ITS-ALG-HC200 Hydrocarbon Gas Sensor

Gas Type: Hydrocarbon (Methane, Butane, Propane, Pentane)

Transmitter Type: Electrochemical Without Arms

Sensor Holder: Integral Holder

Output: Analog

PPM Detection Range: 0-200 ppm

Sensor Sensitivity: 120 Lm/W

Operational Temp Range: >-25° to +55°C

Operational RH Range: 0-95% Non-condensing

Housing: Cast Aluminum

Output Range: Scalable 4-20 mA

Hydrocarbon Gas Sensor - Features/Ratings

Class I, Divisions 1 & 2, Groups B, C, D

HC Sensor

LCD Graphic Display

Non-Intrusive Magnetic Operation

Internal Data Logger

EXP-SNR-TG-EC-ITS-ALG-CD200 Carbon Dioxide Sensor

Gas Type: Carbon Dioxide

Transmitter Type: Electrochemical Without Arms

Sensor Holder: Integral Holder

Output: Analog

PPM Detection Range: 0-200 ppm

Sensor Sensitivity: 120 Lm/W

Operational Temp Range: >-25° to +55°C

Operational RH Range: 0-95% Non-condensing

Housing: Cast Aluminum

Output Range: Scalable 4-20 mA

Voltage: 120-240V AC Stepped down to 24V DC

Carbon Dioxide Sensor - Features/Ratings

Class I, Divisions 1 & 2, Groups B, C, D

LCD Graphic Display

Non-Intrusive Magnetic Operation, Internal Data Logger

Special Orders - Special Requirements

Contact us for special requirements

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Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The EXP-EXTRM-40FT-PKG-V4 from Larson Electronics is an Explosion Proof Extraction Room Package that includes everything needed to convert a forty foot container into a Class I Division 1 explosion proof extraction room. The EXP-EXTRM-40FT-PKG-V4 includes one C1D1 exit sign, four C1D1 3/4" feed through, 125 V rated explosion proof outlets, four 24" C1D1 exhaust fans, four 24" manual fan louvers and one C1D1 carbon dioxide sensor that can be used to operate one of the included exhaust fans.

The EXP-EXTRM-40FT-PKG-V4 includes everything needed to outfit a 40' container with all of the necessary equipment to make the container an explosion proof extraction room. For more information on extraction rooms and explosion proof safety, please click [here](#).

PLEASE NOTE: This extraction room explosion proof equipment package does NOT include conduit, junction boxes, seal offs, unions, or flex couplers that may be needed for installation due to potential differences in layouts. Larson Electronics can provide all of those things at an additional cost.

C1D1 Exit Sign Information: The EXP-EXTRM-40FT-PKG-V4 includes (1) [EXP-EMG-EXT-LE6-1L](#) C1D1 explosion proof exit sign. The EXP-EMG-EXT-LE6-1L Explosion Proof LED Exit Sign with emergency battery back up from Larson Electronics is Class I, Divisions 1 & 2, Groups A, B, C, D, Class I, Zones 1 & 2, Groups IIB+H2, IIA, Class II, Divisions 1 & 2, Groups E, F, G and Class III

Divisions 1 & 2 rated for hazardous areas. Equipped with a 1.1 watt LED lamp, a 3 hour runtime and self diagnostic system, this failsafe exit sign helps show workers within hazardous environments where the exit is during power failures. This single sided exit sign is an ideal emergency exit marking solution for hazardous locations where failsafe reliability is a must.

The EXP-EMG-EXT-LE6-1L is an effective option for operators who wish to ensure their hazardous workspaces employ the most up to date and reliable means of marking emergency exit-ways available. Under normal conditions this emergency exit lamp uses normal external power to illuminate its 1 watt LED array. In the case of power outages or in any situation where power is interrupted, this unit automatically switches to a battery backup which will power the unit for three hours or until power is restored. This fixture has three mounting options and is multi-voltage capable.

Exit Sign Features: The EXP-EMG-EXT-LE6-1L features a backlit LED array that each contain eight LEDs, drawing a total of 1.1 watts. This explosion proof emergency LED fixture features brown-out, short circuit and voltage surge protection and has a low voltage disconnect which prevents damage to the battery caused by a deep discharge. This self-testing LED fixture will run for a minimum of 3 hours after a power failure thanks to the maintenance-free 3.6 volt NiCad battery. After emergency use, the battery takes 24 hours to completely recharge.



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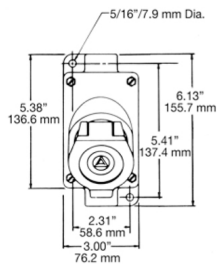
This emergency exit marking fixture is explosion proof and carries an integral battery backup power supply. When external power is cut due to outages or accidents this lamp automatically switches to its battery backup which will power the lamp for three hours, longer than the requirements specified in the NFPA 101. The EXP-EMG-EXT-LE6-1L sign panel is back illuminated by LEDs and as a result draws only 1.1 watt of power and has an extreme LED luminary lifespan rated at 15 years. This fixture is approved for outdoor use and is resistant to saltwater making it suitable for use in marine environments.

Exit Sign Emergency Operation: The EXP-EMG-EXT-LE6-1L features a backup battery that will run the fixture for at least 90 minutes following a power outage or any other loss of power. The included emergency backup battery is a 3.6 volt NiCad rechargeable unit. These batteries are maintenance-free and have a life expectancy of 15 years while being able to operate in a wide variety of conditions including in temperatures ranging from 0°C to +40°C. This unit also features a low voltage disconnect. This means that if the fixture detects that the battery's terminal voltage has fallen below a certain level, the low voltage circuit will disconnect the emergency lighting load until normal power is restored. This prevents the battery from experiencing a deep discharge and becoming damaged.

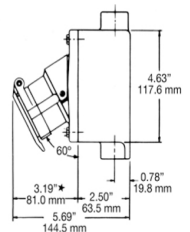
Exit Sign Wiring: The EXP-EMG-EXT-LE6-1L explosion proof emergency self-testing LED fixture is **NOT** a factory sealed fixture. Operators will bring their own wiring to a junction box and complete their connects. The operator will also provide their own seal off for this fixture. The EXP-EMG-EXT-LE6-1L operates on 120/277V AC at 60Hz.

Exit Sign Mounting: The EXP-EMG-2L-LE6 is designed to be surface mounted to flat surfaces such as walls. The unions connecting the upper lamps to the lower indicator light enclosure allow for both horizontal and vertical adjustment. This gives operators the ability to adjust the light to their specific mounting location for ideal light coverage during a power failure or power outage.

C1D1 Explosion Proof Outlet Features: The EXP-EXTRM-40FT-PKG-V4 includes (4) [EPO-20A](#) 3/4" feed through 125V C1D1 outlets. This 20 amp rated power receptacle is ideal for operators seeking a high quality, wet area rated power receptacle suitable for use in industrial and manufacturing applications. This unit's power receptacle is constructed of copper free aluminum and the housing is malleable iron. The unit is factory sealed and any arcing is safely contained with the interior of the receptacle. The receptacle contacts are deep recessed to avoid accidental contact and will not be energized by non explosion proof plugs to preserve explosion proof protection in hazardous environments. Ordinary location plugs will **NOT** activate this explosion proof receptacle.



[Click Photo to Enlarge](#)



* Malleable iron receptacle: 3.38"/85.6 mm

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The iron housing is finished in a triple-coat zinc electroplate, chromate and epoxy powder coat while the receptacle is finished with an epoxy powder coat. This unit is designed to withstand wet and corrosive conditions such as those found in docks and shipyards and comes with a spring loaded receptacle door to prevent ingress of water and contaminants when the unit is not in use.

The EPO-20A power receptacle is constructed of non sparking aluminum and finished with an epoxy powder coating while the housing is constructed of triple coated malleable iron for durability and added corrosion resistance. The internal receptacle plug contacts are constructed of brass and designed to maintain constant pressure along their entire length for superior connectivity. The plug receptacle is deeply recessed to prevent accidental contacts and designed for twist lock plug insertion to provide secure connections. A neoprene seal fitted inside the connector receptacle seals against the plug when inserted to provide positive sealing against water ingress. A spring loaded receptacle door provides an automatic weather-tight seal when the plug is removed. In standard installations within the hazardous location area, threaded rigid pipe is brought to the outlet and the outlet is affixed to a mounting surface.

This outlet is a mate for the Larson Electronics [EPP-15A](#) and [EPP-20-A](#) explosion proof plugs and is compatible with all the Larson Electronics explosion proof lights we make with an explosion proof plug.



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C1D1 Switch Circuit Breaking Protection: This unit's receptacle is designed to safely contain any arcs between the internal contacts that may be created within the receptacle housing.

C1D1 Switch Inter-Compatibility: These units are compatible with Crouse Hind™ plugs under catalogue number ""ENP5151" and Hubble-Killark Acceptor®

plugs under catalogue number "UGP-20231,UGP-20232 ". Due to possible manufacturer changes we cannot guarantee interchangeability although we have made every effort to ensure cross compatibility correctness.

C1D1 Exhaust Fan Features: The EXP-EXTRM-40FT-PKG-V4 includes (4) [EPF-HPSM-24-1HP](#) 24" C1D1 ventilation fans. One of the included fans is intended to be operated with an alcohol sensor that is also included. When the sensor detects too high of a concentration of butane or propane, it powers on the second fan. Four manual fan louvers (one for each included fan) are also included for ventilation purposes.

The EPF-HPSM-24-1HP from Larson Electronics is a high pressure, high volume explosion proof ventilation fan that operates on 115-230V AC voltage. This high volume explosion proof ventilation fan features a 24" diameter spark resistant cast aluminum blade that moves air at a rate of up to 7820 cubic feet per minute (CFM) for superior ventilation and air movement. The EPF-HPSM-24-1HP is powered by a fully enclosed and explosion proof 1 horsepower motor.



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The EPF-HPSM-24-1HP explosion proof fan is rated for Class I Group D and Class II Groups F & G hazardous environments. The 24" diameter propeller on this explosion proof high pressure ventilation fan is constructed from cast aluminum to resist sparking further increasing the safety of the hazardous environment in which the fan is being utilized. This single phase explosion proof ventilation fan has a 1 horsepower fully enclosed motor that can spin the propeller at a rate of 1750 RPM.

C1D1 Ventilation Fan Voltage: The EPF-HPSM-24-1HP explosion proof ventilation fan is multi-voltage capable and can operate on voltages ranging from 115-230V AC.

C1D1 Ventilation Fan Wiring: The EPF-HPSM-24-1HP is a hard-wired ventilation fan that should be installed according to national, state and local electrical and mechanical codes.

C1D1 Hydrocarbon Sensor Features: The EXP-EXTRM-20FT-PKG-V1 includes (1) [EXP-SNR-TG-EC-ITS-ALG-HC200](#) C1D1 alcohol sensor. This sensor is intended to be paired with one of the included ventilation fans to turn the fan on when a high concentration of butane or propane is detected within the extraction room. This hydrocarbon sensor can be set to either detect butane or propane. It CANNOT detect both at once. The operator selects their choice on the unit itself.

The EXP-SNR-TG-EC-ITS-ALG-HC200 Explosion Proof Alcohol Sensor from Larson Electronics is a toxic gas sensor that is configured to detect hydrocarbon vapors of Methane, Butane, Propane, or Pentane within a 0-200ppm (parts per million) concentration, and includes an electrochemical transmitter, an integral sensor holder and non-digital output. An LCD graphics display shows gas concentrations in large, easy to read numbers and also provides operators with alarm indication and menus to set up operating parameters. A backlight is available for use when 3-wire mode is used. This sensor also includes an internal data logger which stores measured gas values at intervals chosen by the user, which can be pulled up on the LCD screen at any point, or downloaded using an interface. This hydrocarbon sensor has non-intrusive operation, allowing operators to calibrate, view data, set up alarms and complete other tasks with a magnetic tool, eliminating the need to open the sensor's enclosure. All program settings are password protected. Also included with this sensor is a scalable 4-20 mA

programmable output range, three internal alarm relays transmitter, and analog output set to user defined values for loop testing without needing to apply gas to the sensor.

The EXP-SNR-TG-EC-ITS-ALG-HC200 is fitted with a hydrocarbon gas sensor, which plugs directly to the transmitter. This gas sensor is used to detect a wide variety of hydrocarbon gases, which can be calibrated by the user based on application. This gas detector contains a sensor, amplifier and memory module in one unit, allowing it to be calibrated independently and plugged into any detector for immediate use with no adjustments needed.



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C1D1 Carbon Dioxide Sensor Features: The EXP-EXTRM-40FT-PKG-V4 includes (1) EXP-SNR-TG-EC-ITS-ALG-CD200 C1D1 carbon dioxide sensor. This sensor is intended to be paired with one of the included ventilation fans to turn the fan on when a high concentration of carbon dioxide is detected within the extraction room.

The EXP-SNR-TG-EC-ITS-ALG-CD200 Explosion Proof Sensor from Larson Electronics is a toxic gas sensor that is configured to detect carbon dioxide within a 0-200ppm (parts per million) concentration, and includes an electrochemical transmitter, an integral sensor holder and non-digital output. An LCD graphics display shows gas concentrations in large, easy to read numbers and also provides operators with alarm indication and menus to set up operating parameters. A backlight is available for use when 3-wire mode is used. This sensor also includes an internal data logger which stores measured carbon dioxide values at intervals chosen by the user, which can be pulled up on the LCD screen at any point, or downloaded using an interface. This sensor has non-intrusive operation, allowing operators to calibrate, view data, set up alarms and complete other tasks with a magnetic tool, eliminating the need to open the sensor's enclosure. All program settings are password protected. Also included with this sensor is a scalable 4-20 mA programmable output range, three internal alarm relays transmitter, and analog output set to user defined values for loop testing without needing to apply gas to the sensor.

The EXP-SNR-TG-EC-ITS-ALG-CD200 is fitted with a carbon dioxide sensor, which plugs directly to the transmitter. This gas sensor is used to detect a wide variety of hydrocarbon gases, which can be calibrated by the user based on application. This carbon dioxide detector contains a sensor, amplifier and memory module in one unit, allowing it to be calibrated independently and plugged into any detector for immediate use with no adjustments needed.



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At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

Frequently Asked Questions (FAQ)