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EXP-SNR-TG-EC-ITS-ALG-HC200

Explosion Proof Hydrocarbon Gas Sensor - 0-200 ppm - Methane, Propane, Butane - Analog

Product ID: 149210



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

Listing: NRTL Listed for United States and Canada

Dimensions: 7.12" x 5.43" x 5.11"

Weight: 4 lbs

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

Transmitter Type: Electrochemical Without Arms

Voltage: 12V DC to 30V DC

Amps: 250mA @ 24V DC Maximum, 3-wire Mode

Sensor Holder: Integral Holder

Output: Analog

PPM Detection Range: 0-200 ppm

Sensor Sensitivity: 120 Lm/W

Response Time: T90 < 30 Seconds

Accuracy/Repeatability: ±2%LEL (0.1%VOL) Methane

Zero/Span Drift: ±1%LEL (0.05%VOL) Methane, per month

AO Range: 4mA is 0%LEL, 20mA is 100%LEL (Programmable Down to 50%LEL)

Alarm Relays: (3) SPST

Contact Rating: 5A @ 250V AC, Resistive Load

Relay Coils: Normally Energized or De-energized, Programmable

Controls: Non-intrusive (4 Magnetic Switches on Front of Transmitter)

Serial Interface: HART 1200 Baud Modem Interface, Registered DDL File or Modbus 1200-600,14.4k,28.8k, RS232/RS485 or ASCII Text Output for Printing Data Log

Output Range: Scalable 4-20 mA

Operational Temp Range: >-25º to +55ºC

Features/Ratings

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

HC Sensor

LCD Graphic Display

Non-Intrusive Magnetic Operation

Internal Data Logger

Special Orders - Special Requirements

Contact us for special requirements

Operational RH Range: 0-95% Non-condensing

Housing: Cast Aluminum

Mounting: Surface (2) 5/16"-D Openings

Hub Size: 3/4" NPT Threaded

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The EXP-SNR-TG-EC-ITS-ALG-HC200 Hydrocarbon Gas Sensor, is a Class 1 Division 1 explosion proof toxic gas transmitter fitted with a sensor, that offers users a unique sensor response testing system, reliable in hazardous locations. This testing system verifies response checks with real gas sample generated on demand, and features an easy to see LCD graphics display, internal data logger, alarms and may additional features that simplify installation, operation and maintenance. This explosion proof gas sensor is Class I, Divisions 1 & 2 certified and is fitted with a hydrocarbon sensor that detects 0-200 ppm. The EXP-SNR-TG-EC-ITS-ALG-HC200 is built with cast aluminum housing, ideal for detecting gas leaks and other emissions and as a control system for oil rigs, manufacturing processes and other hazardous locations where explosive gases are present.

The EXP-SNR-TG-EC-ITS-ALG-HC200 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.

Designed to operate on 12V DC to 30V DC, the unit contains three SPST alarm relays. The contacts are rated at 5A @ 250V AC, resistive load. During use, the sensor can detect hazardous gas with ±2%LEL (0.1%VOL) accuracy/repeatability. Zero/span drift is ±1%LEL (0.05%VOL). This device features a HART® 1200 baud modem interface, registered DDL file or Modbus ® 1200-600,14.4k,28.8k, RS232/RS485 or ASCII text output (for printing data log) serial interface.

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.

Hubs: This explosion proof sensor contains a 3/4" NPT threaded opening at the bottom of the unit.

Mounting: The EXP-SNR-TG-EC-ITS-ALG-HC200 can be secured on surfaces via two 5/16" mounting holes.

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.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	11/12/2020

EXP-SNR-TG-EC-ITS-ALG-HC200

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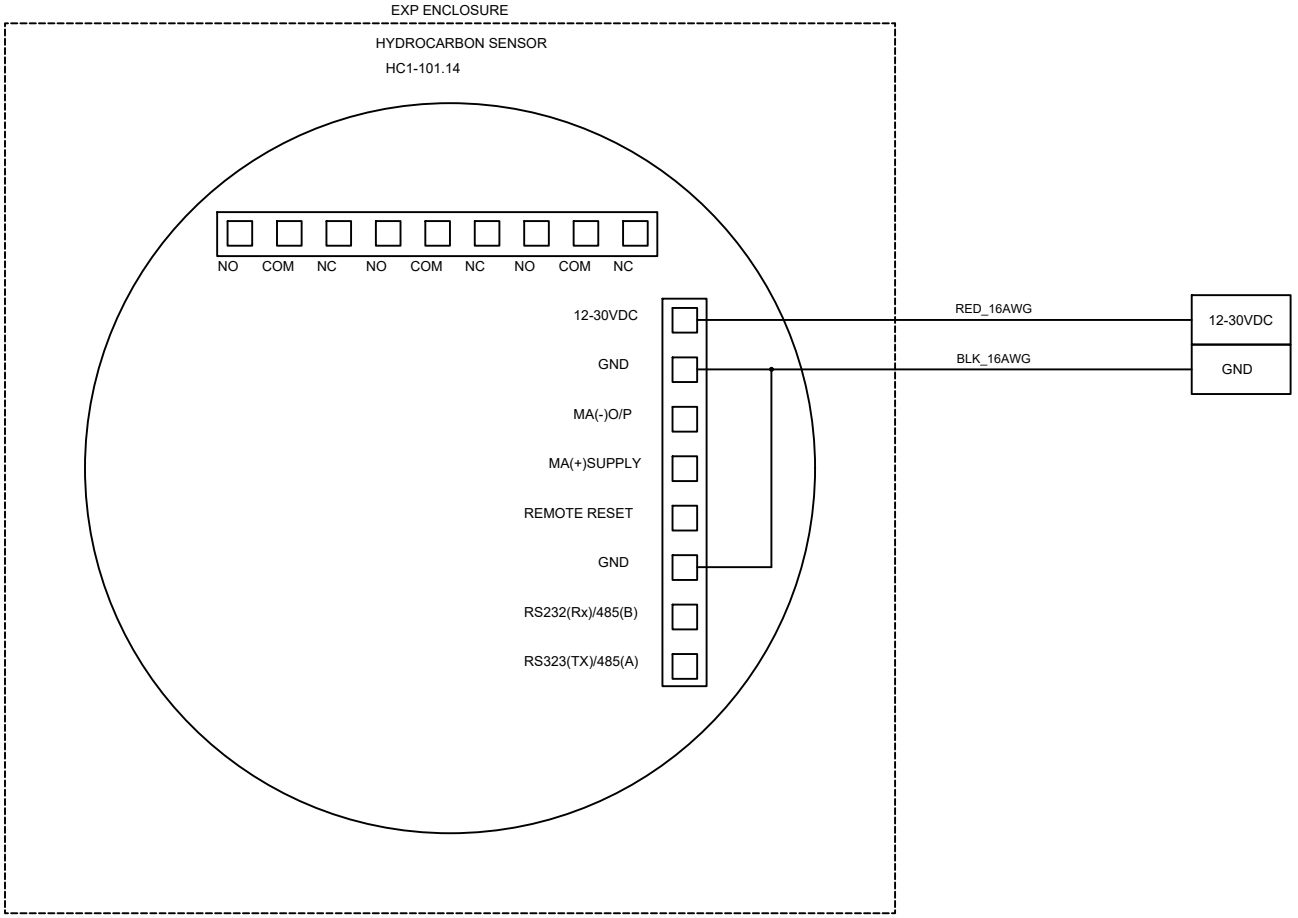


TAGS	QTY	CATALOG	DESCRIPTION
HC1-101.14	1	UNV00012045	EXP TOXIC HYDROCARBON GAS SENSOR - PROPANE/ BUTANE

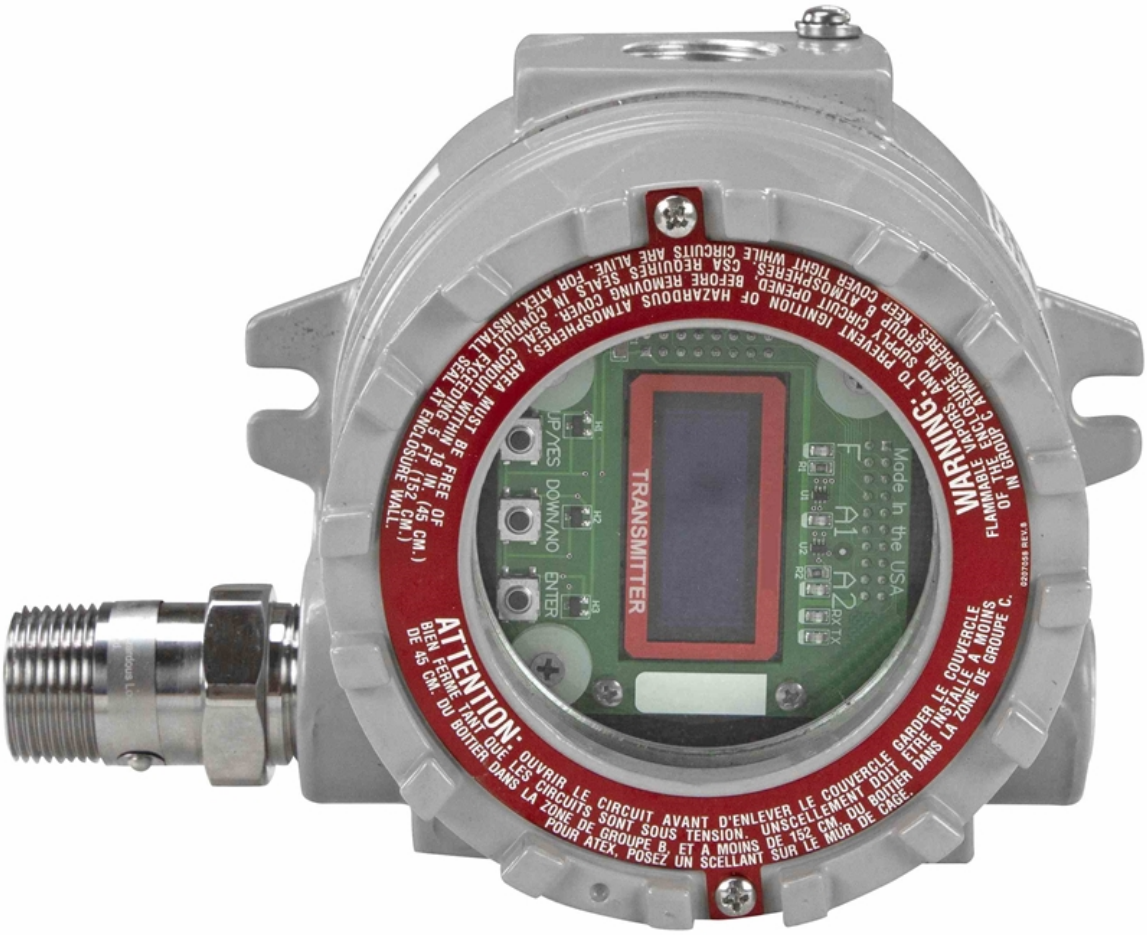
LARSON ELECTRONICS

9419 E US HWY 175,
KEMP, TX 75143

TITLE: EXP-SNR-TG-EC-ITS-ALG-HC200

DRAWN BY	DATE	REV
K.NGUYEN	11/12/2020	A
CHECKED BY	SHEET #	DRAWING #
S.DESAI	1 OF 1	101


WARNING
ATTENTION
TRANSMITTER
A1
A2


WARNING: TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERES, BEFORE REMOVING COVER IN HAZARDOUS ATMOSPHERES. KEEP COVER TIGHT WHILE CIRCUITS ARE ALIVE. FOR ATEX, INSTALL SEAL AT ENCLOSURE WALL.
ATTENTION: OUVRIR LE CIRCUIT AVANT D'ENLEVER LE COUVERCLE GARDER LE COUVERCLE BIEN FERME TANT QUE LES CIRCUITS SONT SOUS TENSION. UNSCELLEMENT DOIT ETRE INSTALLE A MOINS DE 45 CM. DU BOITIER DANS LA ZONE DE GROUPE B ET A MOINS DE 152 CM. DU BOITIER DANS LA ZONE DE GROUPE C. POUR ATEX, POSEZ UN SCELLANT SUR LE MUR DE CAGE.
TRANSMITTER
UP/ESC
DOWN/NO
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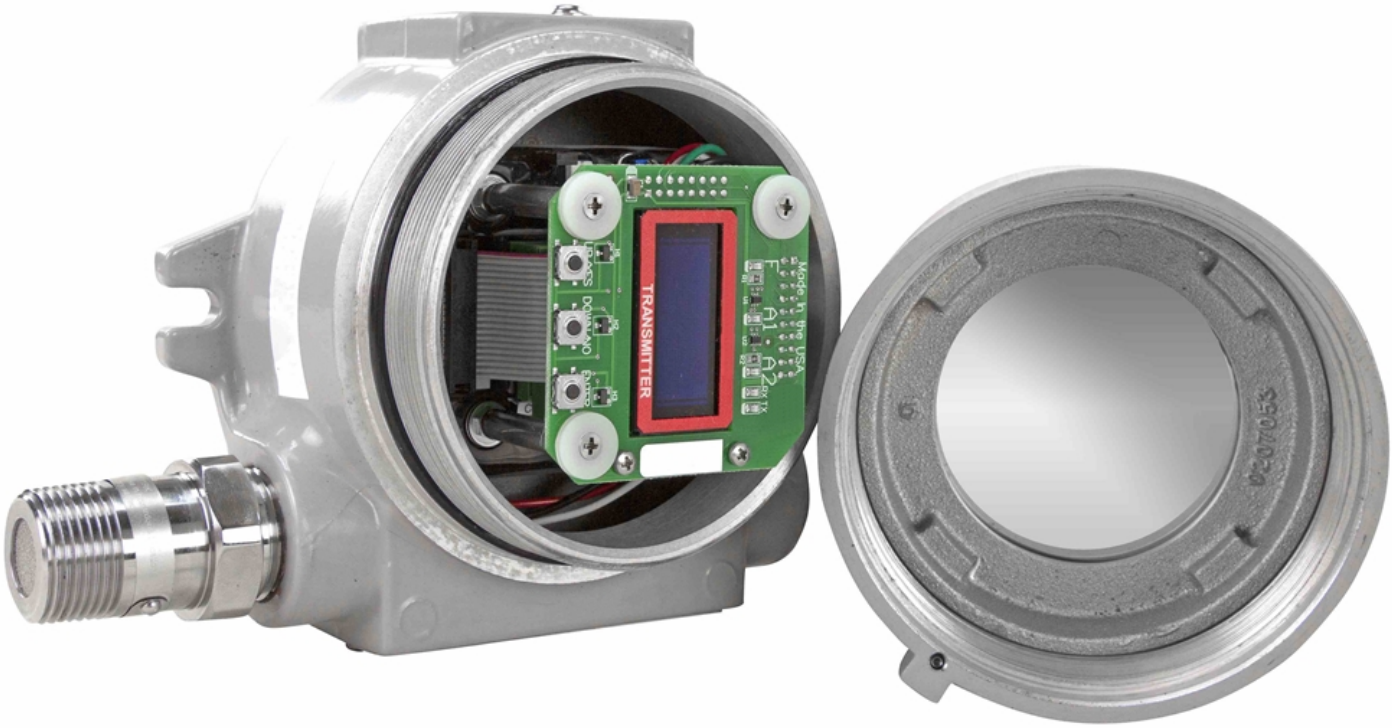
Made in the USA
A1
A2
RX TX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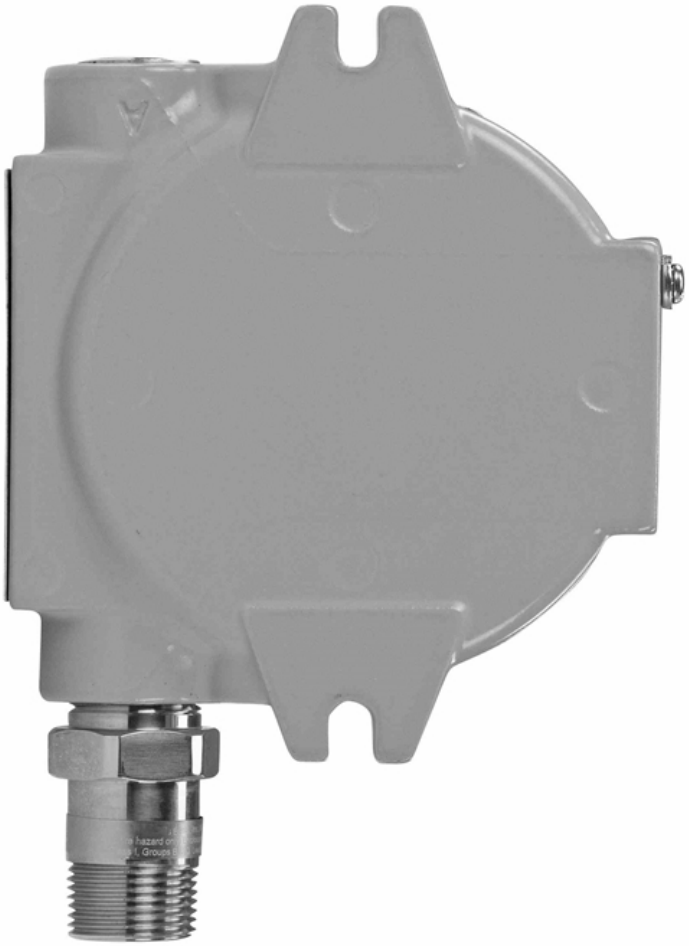

Frequently Asked Questions (FAQ)