



Macurco™ Hydrogen Gas Detector HD-11



For use with alarm control panels

Hydrogen Gas Detection

The Macurco Hydrogen Gas Detector HD-11 is a low voltage (12-24VAC or VDC) dual relay, hydrogen detector. The unit is designed to work with control panel or other building management equipment to help monitor levels of hydrogen gas in a room or a facility where hydrogen gas may be present, for example where forklifts, backup power supplies or golf carts battery charging stations are located. The HD-11 is not designed to detect smoke, fire or carbon monoxide.

Installation

Three part plastic case allows for easy surface mount installation or near flush mount over a four-inch square or double gang electrical box.

Connection

Designed for seamless connection to control panels or other devices with SPDT Alarm and SPST Trouble Relays.

Other Features

- Supervised sensor
- Can be self-restoring or latching
- Electronic sensors: no maintenance or recalibration
- Alarm set point: 10% LEL Hydrogen
- Simple installation and operation



HD-11 Specifications

- Size: 4 ½ X 5 X 1 5/8 Inches
- Shipping Weight: 0.54 Pound
- Voltage: 12 To 24 VAC Or VDC
- Current (Non-Alarm): 45 Ma @ 12 Vdc, 22 Ma @ 24 Vdc, 65 Ma @ 12 Vac, 45 Ma @ 24 Vac
- Current (In Alarm): 70 Ma @ 12 Vdc, 35 Ma @ 24 Vdc, 100 Ma @ 12 Vac, 65 Ma @ 24 Vac
- Color: White
- Sensor Maintenance: Not Required
- Alarm Relay Rating: 0.125 Amps, 40v, 3va
- Trouble Relay: 0.250 Amps, 40v, 10va
- Operating Temperature Range: 32° To 120° F
- Alarm Set Point: 10% LEL hydrogen



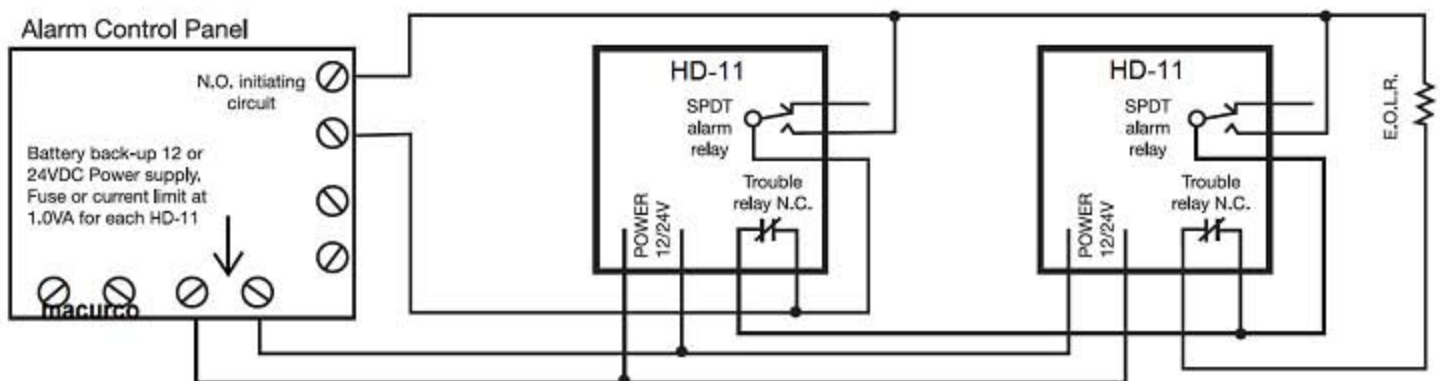
The three part plastic case allows the HD-11 to be either surface mounted or installed over a four-inch square or double gang electrical box. For flush mount, remove the rear cover from the mounting plate and use the appropriate hole-pattern for installation.

Location

Locate the HD-11 high in the room where storage batteries are being charged or where there may be other hydrogen sources. Use the same spacing as for smoke detectors - 30 foot centers, 900 square feet per detector. Do not mount the HD-11 in a corner. The coverage depends on air movement in the room or facility. Extra detectors may be needed near any areas where people work or the air is stagnant. The Macurco Hydrogen Gas Detector HD-11 is not intended for use in industrial applications such as refineries, chemical plants, etc. Do not mount the HD-11 where the normal ambient temperature is below 40°F (4.4°C) or above 120°F (49°C). Do not install the HD-11 inside another enclosure or protective cover unless it has good air flow through it. The HD-11 is not designed to detect smoke, fire or carbon monoxide.

TYPICAL CONNECTION TO AN ALARM PANEL

TYPICAL COVERAGE - 900 SQUARE FEET



Made in the U.S.A. with US and imported materials.

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Gas Detection Experts