Hydrogen Gas Detectors

Forklifts • Backup Power Supplies • Golfcarts • Battery Charging Stations

**System Detectors (Low Voltage)**

**HD-11** 12-24VAC or VDC input, alarm relay.

**HD-12** 12-24VAC or VDC input, hi and low level alarm relays.

- Mounts in standard 4 x 4 electrical box.
- Alarm relay set at 10% of Lower Explosive Level (10% and 25% of LEL on HD-12).
- N.O. sealed reed type dry contact relays.
- Easy installation.
- No Maintenance or recalibration required.
- Supervised system.

- Loud alarm sound: Approx 85db at 10 feet.
- Buzzer silencing switch.
- Easy installation
- Supervised system
- No maintenance or recalibration required.

**Recommended Coverage**: 900 sq. feet.

**Mounting Height**: One foot below ceiling.

**Manufactured By:**

**Distributed By:**

Tucano Comércio de Alarmes e Sistemas Eletrônicos
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HYDROGEN DETECTOR CONNECTIONS

Mount Hydrogen Detectors high, as Hydrogen is lighter than air.
Space the Detectors similar to smoke detectors: 30 feet centers, 900 square feet per detector.
Relays are dry contact.

TYPICAL CONNECTION OF TWO HD-11 TO AN ALARM CONTROL PANEL

TYPICAL CONNECTION OF TWO HD-11 TO AN ALARM CONTROL PANEL

MULTIPLE HD-12 SYSTEM CONTROLLING A LOW LEVEL EXHAUST FAN AND A HIGH LEVEL ALARM.

NOTE:
1. An alarm control panel similar to the HD-11 system above could be used, with an auxiliary relay to control the fan.
2. The fan relay contacts must be matched to the fan motor power. The HD-12 relay can only switch up 10 VA.
3. Hydrogen detectors mount high like smoke detectors.
4. Match the transformer size, in VA to the total 24 VAC load.

SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>HD-11</th>
<th>HD-12</th>
<th>HD21-1-BR</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIZE</td>
<td>4 1/2 X 5 X 1 5/8&quot;</td>
<td>4 1/2 X 4 1/2 X 1 3/4&quot;</td>
<td>4 1/2 X 4 1/2 X 1 3/4&quot;</td>
</tr>
<tr>
<td>SHIPPING WEIGHT</td>
<td>one pound</td>
<td>one pound</td>
<td>one pound</td>
</tr>
<tr>
<td>COLOR</td>
<td>White</td>
<td>White</td>
<td>White</td>
</tr>
<tr>
<td>VOLTAGE</td>
<td>12 to 24 Vac or Vdc</td>
<td>12 to 24 Vac or Vdc</td>
<td>120 VAC</td>
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<tr>
<td>CURRENT</td>
<td>60 ma @ 24 V, 30 ma @ 12 V</td>
<td>120ma @ 24V, 60 ma @ 12 V</td>
<td>less than 10 watts</td>
</tr>
<tr>
<td>RELAY RATING</td>
<td>0.2 Amp, 3 VA</td>
<td>0.5 Amp, 10VA</td>
<td>0.5 Amp, 10 VA</td>
</tr>
<tr>
<td>TEMP. RANGE</td>
<td>0 to 150 F</td>
<td>0 to 150 F</td>
<td>0 to 150 F</td>
</tr>
</tbody>
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