For LPG-CNG gas facilities / For Hydrogen refueling station

**Combustible gas detector**

**Model GP-147**

- Easy to attach more indicators.

**Applications**
- LPG gas manufacturing storage, consuming facilities
- CNG gas manufacturing storage, filling facilities
- Hydrogen refueling station
- Natural gas station
- Other factories

**Features**

- **Backup point selection function**
  It is possible to select whether to perform backup for each indicator using the selector switch. Power can be supplied only to the necessary point in the event of a blackout to perform continuous monitoring of gas leakage efficiently.

- **Easy to enter the maintenance mode.**
  It is possible to enter the maintenance mode in one switch. It is easy to adjust zero and span.

- **Available for continuous monitoring of hydrogen refueling station.**
  It is applied for early detection possible to detect Hydrogen in Hydrogen refueling station, which is ppm to LEL as usage.

- **Two-color (red / green) LCD**
  It is possible to determine the danger from the remote location.
Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>GP-147</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection gas</td>
<td>Combustible gases in air</td>
</tr>
<tr>
<td>Detection principle</td>
<td>Catalytic Combustion Method/New Ceramic Catalytic Method</td>
</tr>
<tr>
<td>Detection range</td>
<td>It depends on what gas is.</td>
</tr>
<tr>
<td>Indication</td>
<td>CLCD (Bar meter red/green)</td>
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<tr>
<td>Alarm preset level</td>
<td>It depends on what gas is.</td>
</tr>
<tr>
<td>Alarm accuracy (Under same condition)</td>
<td>Better than ±25% of alarm preset point</td>
</tr>
<tr>
<td>Alarm response time (Under same condition)</td>
<td>Within 30 seconds after giving 1.6 times thicker gas than alarm level. (Without any consideration for pipe)</td>
</tr>
<tr>
<td>Alarm</td>
<td>Latching (Standard) or Non-latching (Option)</td>
</tr>
<tr>
<td></td>
<td>Flashing or lighting red lamp (after reset)</td>
</tr>
<tr>
<td></td>
<td>Warning buzzer (Standard) or Warning buzzer + Audio message (Option)</td>
</tr>
<tr>
<td>Trouble alarm method/Display</td>
<td>Non-latching (Standard) or Latching (Option)</td>
</tr>
<tr>
<td></td>
<td>Flashing or lighting orange lamp (after reset), Content indication</td>
</tr>
<tr>
<td></td>
<td>Warning buzzer (Standard) or Warning buzzer + Audio message (Option)</td>
</tr>
<tr>
<td>Alarm output</td>
<td>General Voltage contact output DC 0~12V (up to 10mA)</td>
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<tr>
<td></td>
<td>No-voltage contact output contact 1c (Contact capacity: AC 250V 2A)</td>
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<tr>
<td></td>
<td>Buzzer power: DC 24V up to 10mA</td>
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<tr>
<td></td>
<td>Buzzer power: No-voltage contact 1a (Standard) or contact 1b (Option)</td>
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<tr>
<td></td>
<td>Contact capacity: AC 250V 1A</td>
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<tr>
<td></td>
<td>Individual Voltage contact output DC 0<del>12V / up to 10mA (Standard) or 4</del>20mA / Load resistance: up to 300Ω (Option)</td>
</tr>
<tr>
<td>Alarm contact</td>
<td>Alarm contact: Non-voltage 2 contact / Contact capacity: AC 250V 2A, contact a (Standard) or contact b (Option)</td>
</tr>
<tr>
<td>Alarm delay time</td>
<td>2 seconds / standard or you can adjust the delay time by up to 60 seconds</td>
</tr>
<tr>
<td>Power</td>
<td>AC 100~240V ±10% 50/60Hz</td>
</tr>
<tr>
<td>Protection against thunder damage</td>
<td>With protection from lightning surge</td>
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<tr>
<td>Emergency power source</td>
<td>Lead battery 12V 2.3Ah x 2 pcs.</td>
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<tr>
<td></td>
<td>With selective functions of back up</td>
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<tr>
<td>Installation</td>
<td>Wall mounting / Panel mounting</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10~50°C (no sudden change)</td>
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<tr>
<td>Operating humidity</td>
<td>10~90% RH (non condensing)</td>
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<tr>
<td>Dimensions/Weight</td>
<td>2 channel approx. 290(H) x 305(W) x 72(D)mm / approx. 3.9kg</td>
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<td></td>
<td>4 channel approx. 290(H) x 395(W) x 72(D)mm / approx. 5.0kg</td>
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<td></td>
<td>6 channel approx. 290(H) x 485(W) x 72(D)mm / approx. 5.8kg</td>
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<tr>
<td></td>
<td>8 channel approx. 290(H) x 575(W) x 72(D)mm / approx. 6.8kg</td>
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<td></td>
<td>10 channel approx. 290(H) x 665(W) x 72(D)mm / approx. 7.4kg</td>
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<td></td>
<td>12 channel approx. 290(H) x 755(W) x 72(D)mm / approx. 8.2kg</td>
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<tr>
<td>Distance between indicator and detector head</td>
<td>CVV four-core cable or six-core cable 0.75mm² MAX 300m</td>
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<tr>
<td></td>
<td>CVV four-core cable or six-core cable 1.25mm² MAX 500m</td>
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<tr>
<td></td>
<td>CVV four-core cable or six-core cable 2.0mm² MAX 500m</td>
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<tr>
<td>Color of painting</td>
<td>Munsell N 7.2, Light gray</td>
</tr>
</tbody>
</table>

Standard accessories

- Panel mount bracket for panel mounting type

Option

- Voice unit
- Fuse x 2 pcs. (5A φ5 × 20mm)