Model TA-2102 **smarter**
Hydrogen Bromide HBr Gas Detector

### Features

- **no false alarms** patented electrochemical sensor technology
- Self-Calibration adjusts monthly based on sensor life curve
- Auto-Gas Calibration, non-intrusive, hands-free, magnetic switches
- Not affected by temperature -25°C to +50°C, stable by design
- LCD display - 12 characters x 2 lines - provides user interface with magnetic switches - no dip switches - LED indicators
- Offsite sensor calibration with memory chip embedded in sensor
- Peak Value, 15-min. TWA, Remaining Sensor Life, Replace Sensor indication and number of days since last gas calibration
- Loop Powered - Intrinsically Safe option
- Optional enclosures - 316 stainless steel, Nema 4x polycarbonate
- Available suitable for use in **SIL 2** environments / Advanced diagnostics

---

### Specifications

<table>
<thead>
<tr>
<th>Detection Principle:</th>
<th>Electrochemical - Amperometric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection Method:</td>
<td>Diffusion or Sample Drawing</td>
</tr>
<tr>
<td>Detection Range:</td>
<td>0.0 - 20.0 ppm (parts-per-million)</td>
</tr>
<tr>
<td>Calibration Method:</td>
<td>Non-intrusive, magnetic tool</td>
</tr>
<tr>
<td>Operating Voltage:</td>
<td>10 - 30 VDC, 24 VDC nominal</td>
</tr>
<tr>
<td>Power Requirements:</td>
<td>0.48 W @ 24 VDC</td>
</tr>
<tr>
<td>Electrical Connections:</td>
<td>Power (24 VDC) and Signal (4-20mA)</td>
</tr>
<tr>
<td>Cable Requirements:</td>
<td>2-wires, shielded</td>
</tr>
<tr>
<td>Connection Type:</td>
<td>2-wire, loop powered</td>
</tr>
<tr>
<td>Resolution:</td>
<td>0.1 ppm minimum detection level</td>
</tr>
<tr>
<td>Zero Drift:</td>
<td>less than 0.1 ppm</td>
</tr>
<tr>
<td>Temperature Range:</td>
<td>-25°C to +50°C</td>
</tr>
<tr>
<td>Humidity Range:</td>
<td>10 - 95% RH, non-condensing</td>
</tr>
<tr>
<td>Response Time:</td>
<td>&lt;60 sec. to 90% of final reading</td>
</tr>
<tr>
<td>Recovery Time:</td>
<td>&lt;30 sec. to 90% recovery</td>
</tr>
<tr>
<td>Sensor Service Life:</td>
<td>&gt;3 years typical; normal conditions</td>
</tr>
<tr>
<td>Electronic Enclosure:</td>
<td>Ex-Proof, aluminum or 316 SS</td>
</tr>
<tr>
<td>Enclosure Certifications:</td>
<td>CSA/UL/FM Class I GR B,C,D</td>
</tr>
</tbody>
</table>

### Applications

- Plasma Etching
- Chemical Processing
- Electronics
- Pharmaceuticals
- Laboratories
- More

Specifications subject to change without notice due to continued program of product innovation.