Photoionization Detector (PID)

*Ion Science TIGERLT*

This variant of the hugely popular TIGER VOC detector is low on cost but high on performance. Its revolutionary, patented PID sensor technology with humidity resistance and anti-contamination design provide market leading accuracy and run time. Combined with 24 hour battery life, these features maximize field time by minimizing erroneous readings in high humidity and drift in harsh environments.

**FEATURES**

**Best available photoionization detection sensor**
- PID independently verified as best performing on the market
- Accurate results across all environments from 0.1–5000 ppm
- Patented humidity resistance to 99% RH – no compensation needed
- Anti-contamination design minimizes drift and extends run time
- Fastest 2 second response time and rapid clear down

**Minimize downtime**
- Anti-contamination design reduces calibration frequency
- Li-ion battery for up to 24 hours continuous operation
- 6.5 hours battery charge time maximizes uptime
- Batteries field replaceable, even in explosive environments
- Filters and lamps replaceable in minutes
- Simple icon driven menu requires minimal user training

**Ease of use**
- User selectable response factors for direct concentration readout
- Intuitive, easy to use software
- Large clear keypad for easy operation when wearing gloves
- Ergonomic design allows simple one handed operation
- Large, clear visual display
- Flash light and back-lit keypad for low light conditions
- Push-to-log data logging, 128 zones, 80,000 points
- Designed for easy service

**Safety**
- 95 dBA, bright LED and vibration alarms alert you to gases present
- Intrinsically safe; meets ATEX, IECEx, UL and CSA standards

**Low Cost**
- Entry level VOC detector with all the essential functions
- Inexpensive consumables and parts for low cost operation

**TYPICAL APPLICATIONS**
- Environmental monitoring
- Soil contamination
- VOCs in landfill
- IAQ
- Health & Safety
- Confined space entry
- First Response
- Wing tank entry
- VOC leak detection
- Fumigation gases
- Fugitive emissions
- Medical gases

**CALL GEOTECH TODAY (800) 833-7958**

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue • Denver, Colorado 80205
(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242
email: sales@geotechnv.com website: www.geotechnv.com
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Minimum Resolution*</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Maximum Reading</td>
<td>5,000 ppm</td>
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<tr>
<td>Response Time</td>
<td>T90 &lt; 2 seconds</td>
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<tr>
<td>Accuracy*</td>
<td>±5% display reading ±one digit</td>
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<tr>
<td>Linearity*</td>
<td>±5% display reading ±one digit</td>
</tr>
<tr>
<td>Intrinsically Safe Approvals</td>
<td>II 1G Ex ia IIC T4 Ga</td>
</tr>
<tr>
<td></td>
<td>Tamb = -15°C ≤ Ta ≤ 45°C (with lithium ion battery pack)</td>
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<tr>
<td></td>
<td>Tamb = -15°C ≤ Ta ≤ 40°C (with alkaline battery pack)</td>
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<tr>
<td></td>
<td>ITS09ATEX26890X IECEx ITS 10.0036X</td>
</tr>
<tr>
<td></td>
<td>3193491 conforms to UL Standard 913, 61010-1</td>
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<tr>
<td></td>
<td>Certified to CAN/CSA Std. C22.2 No. 61010-1</td>
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<tr>
<td>Battery Life</td>
<td>Li-ion: Life up to 24 hours continual use</td>
</tr>
<tr>
<td>Lamps</td>
<td>10.6 eV Krypton PID (standard.)</td>
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<tr>
<td></td>
<td>10.0 eV and 11.7 eV available</td>
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<tr>
<td>Data Logging*</td>
<td>Push-to-log, 128 zones, 80,000 data points</td>
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<tr>
<td>Calibration</td>
<td>Standard calibration 100 ppm isobutylene</td>
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<td>Custom calibration capability</td>
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<tr>
<td>Alarm</td>
<td>Flashing LED and 95 dBA at 300mm (12&quot;)</td>
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<td></td>
<td>audible sounder</td>
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<td></td>
<td>Selectable vibrating alarm</td>
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<tr>
<td>Flow Rate</td>
<td>220 ml/min in ambient conditions</td>
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<td></td>
<td>(with blocked flow alarm)</td>
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<tr>
<td>Temperature</td>
<td>Operating: -20° to 60°C, -4° to 140°F (non-intrinsically safe)</td>
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<tr>
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<td>Humidity: 0-99% RH (non condensing)</td>
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<tr>
<td>Protection</td>
<td>Designed to IP65 (heavy rain)</td>
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<td></td>
<td>CE 1180</td>
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<td></td>
<td>EMC tested to EN61326-1:2006, EN50270:2006</td>
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<tr>
<td></td>
<td>&amp; CFR 47:2008 Class A</td>
</tr>
<tr>
<td>Weight &amp; Dimensions</td>
<td>340 W x 90 H x 67 D mm (13.4” W x 3.6” H x 2.4” D)</td>
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<td>Instrument weight 0.72 kg (1.56 lb.)</td>
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</tbody>
</table>

All specifications are against isobutylene calibration at 20°C, 90% RH and up to 3000 ppm unless otherwise stated.

*Gas dependant

### WHAT’S INCLUDED

**Tiger LT Kit Contains:**
- Tiger LT
- Rechargeable Battery (Li-ion)
- Battery Charger and Mains Adaptor
- Rubber Boot
- Lightweight Carry Case
- PTFE Filter Disc (dust filter)
- Removal Tool mini-PID Stack
- Probe Tube (60mm)
- Sample Cleaning Compound Assembly
- Cleaning Buds
- Lanyard (wrist strap)
- USB Cable

**Accessories**

An extensive range of accessories is also available. For more information and prices contact Geotech.

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