**Gas Concentration Measurement, Work Zone Safety**

**GAZOMAT**

**Multifunction Gas Leak Detector**

- Simultaneous detection of up to four gases – CH₄ with infrared sensor, CO₂, O₂, THT/TBM/H₂S with electrochemical sensors
- Reliable measurements in spite of temperature variations, no condensation formation
- Personalised, intuitive and user-friendly interface
- Event logging and transfer via Bluetooth® connection
- Maintenance made easier using smart sensor technology

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Type of gas</th>
<th>Sensor</th>
<th>Measurement range</th>
<th>Measurement scale</th>
<th>Sensitivity limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methane (CH₄)</td>
<td>Infrared</td>
<td>0 ppm - 10,000 ppm, CH₄</td>
<td>0% - 100% LEL CH₄, CH₄</td>
<td>100 ppm CH₄, 1% LEL CH₄, 0,1% vol. CH₄</td>
</tr>
<tr>
<td>Carbon monoxide (CO)</td>
<td>Electrochemical</td>
<td>0 ppm - 1,000 ppm</td>
<td>1 ppm - 1,000 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Oxygen (O₂)</td>
<td>Electrochemical</td>
<td>0% - 30% vol. O₂</td>
<td>1,0 % - 29,9% vol. O₂</td>
<td>0,1% vol. O₂</td>
</tr>
<tr>
<td>Hydrogen sulphide (H₂S)</td>
<td>Electrochemical</td>
<td>0 ppm - 200 ppm</td>
<td>1 ppm - 2,000 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>THT (C₄H₈S)</td>
<td>Electrochemical</td>
<td>0 - 100 mg/m³</td>
<td>1 - 100 mg/m³</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td>TBM (C₄H₁₀S)</td>
<td>Electrochemical</td>
<td>0 - 100 mg/m³</td>
<td>1 - 100 mg/m³</td>
<td>1 mg/m³</td>
</tr>
</tbody>
</table>

**Calibration**
- Methane with automatic natural gas correction factor
- Option: CO, O₂, H₂S/THT/TBM (maximum three gases can be selected)

**Power supply**
- Battery rechargeable lithium accumulator, 4800 mAh
- Battery life: 24 hours

**Charging Time**
- 5 hours

**Electric pump**
- Output: ≥ 25 l/h

**Functions**
- Data logging: Automatic logging of events (date, time of switching on and off, and triggering of any alarms)
- Communication: Bluetooth® 2.0 and RS232/USB connection for data transfer
- Alarms:
  - Four flashing red LEDs and audio signal
  - Hydrocarbons: alarm limits programmable according to ATEX regulations
  - Toxic gases: programmable alarm limits
  - Concentration level, battery low, faults

**Conditions of use**
- Temperature range: -10 °C to +40 °C
- Relative humidity: 0% to 80% RH at 30°C
- Anti-condensation system: avoids false alarms with high temperature variations

**Storage conditions**
- Temperature range: -20 °C to +50°C
- Relative humidity: < 95% RH

**Physical characteristics**
- High-contrast TFT colour display screen with automatic backlighting (320 x 240 pixels)
- Four waterproof control keys on the front
- Housing made of impact resistant antistatic PA6 polyamide with carbon reinforcement
- Anodised aluminium front
- Display window made of high-strength ceramic glass
- Weight: 1,1 kg
- Dimensions: L 216 mm x W 110 mm x D 122 mm
- Protection rating: IP 67 according to EN 60529

**Certifications**
- ATEX and IEC-Ex

**After-sales service**
GAZOMAT provides all customers with comprehensive product assistance and maintenance through its global service teams.
GAZOMAT™ has extended its range of optical (NDIR) gas detectors with its new Gazotrack™4 device, which is a multipurpose detector with intelligent IR sensors for hydrocarbons and electrochemical sensors for toxic and odorant gases. This new-generation handheld device is capable of detecting up to four gases at the same time, with a 100 ppm sensitivity limit for methane.

It offers an all-in-one solution that is extremely flexible and easy to use, meeting the safety and performance requirements of a large range of applications – safety interventions, bore holes, pipeline purging and filling, monitoring of networks in gas storage and transport installations, measurement of odorant gases, testing for toxic gases in potentially hazardous work zones.

### Measurement reliability
A smart sensor using non-dispersive infrared (NDIR) technology to guarantee measurement efficiency:
- Repeatable and reliable measurements
- Sensor immune to toxic compounds (for H2S, up to 200 ppm)
- Very short response time, under 4 seconds
- Temperature regulation system integrated into the sensor for protection from high temperature and humidity variations - no condensation
- Lifespan above five years

### Convenience and safety in ATEX
- Safe use in zones at risk of explosion - Certified for ATEX and IEC-Ex zones 0, 1 and 2
- Rugged design for use in extreme conditions
- Large display of measurements in values and bars on back-lit LCD screen
- Compact and lightweight design

### FailSafe Design
- Continuous self-testing
- Display of error messages with audio signal
- Device shutdown message in the event of a major fault

### Simplified maintenance and reduced costs
- Independent intelligent sensors with integrated circuitry, requiring no recalibration in normal conditions of use
- Quick replacement of sensors and filters, with no need for recalibration (maintenance by GAZOMAT™-approved personnel only)
- Simple annual verification using the test kit
- Operating time before maintenance approximately 5,000 h.

The Gazotrack™4 detector is available in a methane version and includes several application modes to be defined at the time of purchase and selected from a menu:

**Operating Mode**

**Applications**

- Testing for potentially exploitable and toxic levels of gas in work zones and in confined spaces (CH4, CO2)
- Testing for hazardous concentration levels of toxic gases (CO, O2)
- Leak detection in indoor and outdoor installations (CH4, CO2)

**Measurement scales**

- LEL scale (0%-100% LEL) with maximum recorded measurement (MAX)
- Manual changeover to % gas vol. scale
- Simultaneous display of toxic gas measurement (for CO2 scale 0 ppm-1000 ppm)

**Sample display**

The wide field of application of the device combined with its portability and ease of use and maintenance make Gazotrack™4 a multipurpose detector that can accompany and ensure the safety of all personnel working with gas, for a lower cost.