### Measuring principle

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrochemical (EC)</td>
<td>for toxic gases and oxygen</td>
</tr>
<tr>
<td>Catalytic combustion (CC)</td>
<td>for flammable gases and vapors (up to 100% LEL)</td>
</tr>
</tbody>
</table>

### Measuring ranges

Sensor dependent

### Response time

Sensor dependent

### Expected average life of the sensor

Sensor dependent

### Measuring gas supply

- Diffusion with flow velocity of 0.6 m/s or
- Pump by means of attachable electrical sampling pump G400-MP2

### Display

- Illuminated LCD full graphics display, automatic size setting for optimum reading, displays the battery capacity, gas concentration as current value and peak value

### Alerting

- Depending on the gas type 3 or 2 momentary value and 2 exposure level alarms, battery alarm with visual and acoustical signaling as well as display on the screen, color of the display depending on the alarm state (orange/red).
- Horn: 103 dB(A) (can be reduced to 90 dB(A))

### Zero point and sensitivity adjustment

- Manual or automatic with an adjustment program, if necessary, test gas supply via the “SMART CAP” or the „SMART CHARGER CAP“ with 0.5...0.6 slpm

### Power supply

1. NiMH-II battery module A21 (colour: black), 2100mAh rechargeable
2. NiMH battery module F25 (colour: black), 2500mAh rechargeable
   - Im=600mA (max. charging current)
   - Um=6V DC (max. voltage)
3. Alkaline battery module (colour grey), non-rechargeable
   - 2x Mignon 1,5V Type: DURACELL PROCELL MN1500 LR6 AA or INDUSTRIAL BY DURACELL ID1500 AA (LR6)

### Operating time (*1)

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>EC</th>
<th>CC</th>
<th>EC+CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>NiMH-II A21</td>
<td>approx. 13h</td>
<td>approx. 25h</td>
<td>approx. 120h</td>
</tr>
<tr>
<td>NiMH F25</td>
<td>approx. 15h</td>
<td>approx. 30h</td>
<td>approx. 130h</td>
</tr>
<tr>
<td>Alkaline</td>
<td>approx. 14h</td>
<td>approx. 25h</td>
<td>approx. 170h</td>
</tr>
</tbody>
</table>

### Climatic conditions

- For operation: -20...+55°C | 5...95% r.h. | 70...130kPa
- For storage: -25...+60°C | 5...95% r.h. | 70...130kPa (recommended 0...+30°C)

### Housing

- Material: rubberized plastic
- Dimensions: 75 x 110 x 55 mm (W x H x D)
- Weight: up to 290 g (depending on sensor configuration)
- Protection class: IP67

### Approvals / Tests

- Markings and ignition protection types:
  - I II 2G
  - Ex ia d IIC T4 Gb
  - Ex ia d IIC T3 Gb
  - Ex ia d IIC T4/T3 Gb
  - Type: BVS 06 ATEX E D17 X
  - PPG 09 G 001
  - DIN EN 50270:2006

- Interference emission: Type class I
- Interference immunity: Type class II

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(*1): The service life is indicated for new battery modules at operating temperatures of +20°C. It will be reduced by pressing buttons (display lighting & lamp) and by gas alarms. It is reduced with the age of the battery module, with the number of the charging / discharging cycles, by longer storage of the gas measurement device in the charging tray and the lazy battery effect.

CC<sub>cor</sub>=with energy-saving operation at measuring range 0-100%LEL CH<sub>4</sub>