Harmful concentrations of gases may occur during construction. To protect workers and to ensure compliance to regulations, e.g. the air quality directive, the INFRA system can monitor and document air quality.

The INFRA Gas monitor is a modular system for continuous monitoring of various gases. Each monitor can house up to six sensors which measures different types of gases from the selection below (additional gas monitoring sensors are available upon request). The monitor can be directly connected to Sigicom’s INFRA monitoring system with ready-made solutions for data communication, and web presentation of measurement data.

Gases:
- CH₄ (Methane)
- CO (Carbon monoxide)
- CO₂ (Carbon dioxide)
- NO (Nitric oxide)
- NO₂ (Nitrogen dioxide)
- SO₂ (Sulfur dioxide)
- O₃ (Ozone)
- VOC (Volatile organic compounds)

Additional gas detection units are available on request.

Each gas sensor is connected to an A/D box which delivers digital data to a connected INFRA Mini/Master/Micro. This provides a continuous monitoring with the opportunity to identify levels of gas concentrations. It is possible to trigger and send SMS and/or e-mail messages when a certain gas level is above a preset trig level.

- Simultaneous monitoring of various gas concentrations
- Can modularly select up to five different gas sensors in one unit
- Alarm levels on each gas type can be set separately
## Technical Data

### INTERVAL TIME
1–60 minutes

### EXTERNAL POWER
100–240V AC 50–60 Hz power supply
Heating 12W

### DIMENSIONS
370 x 320 x 180 mm (H x W x D)
(14 x 12 x 6 in)

### SENSOR SPECIFIC TECHNICAL DATA

<table>
<thead>
<tr>
<th>Sensor</th>
<th>Range</th>
<th>Resolution</th>
<th>Operating Conditions</th>
<th>Maintenance interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH₄</td>
<td>0…50000 ppm (0…100% LEL)</td>
<td>50 ppm</td>
<td>-40…+70 °C, 15…95 %RH</td>
<td>6 months/clean filter</td>
</tr>
<tr>
<td>CO</td>
<td>0…1000 ppm</td>
<td>1 ppm</td>
<td>-20…+50 °C, 15…95 %RH</td>
<td>6 months/clean filter</td>
</tr>
<tr>
<td>CO₂</td>
<td>400…10 000 ppm</td>
<td>1 ppm</td>
<td>-40…+50 °C, 0…95 %RH</td>
<td>6 months/clean filter</td>
</tr>
<tr>
<td>NO</td>
<td>0…250 ppm</td>
<td>1 ppm</td>
<td>-20…+50 °C, 15…90 %RH</td>
<td>6 months/clean filter</td>
</tr>
<tr>
<td>NO₂</td>
<td>0…20 ppm</td>
<td>0,1 ppm</td>
<td>-30…+50 °C, 15…90 %RH</td>
<td>6 months/clean filter</td>
</tr>
<tr>
<td>SO₂</td>
<td>0…20 ppm</td>
<td>0,1 ppm</td>
<td>-30…+50 °C, 15…90 %RH</td>
<td>6 months/clean filter</td>
</tr>
<tr>
<td>O₃</td>
<td>0…5 ppm</td>
<td>0,01 ppm</td>
<td>-20…+45 °C, 15…90 %RH</td>
<td>6 months/clean filter</td>
</tr>
<tr>
<td>VOC</td>
<td>0…500 ppm (0…100% LEL)</td>
<td>1 ppm</td>
<td>-40…+70 °C, 15…90 %RH</td>
<td>6 months/clean filter</td>
</tr>
</tbody>
</table>