

# C1100

## Infrared CO<sub>2</sub> Detector

Naturally present in low quantities in the atmosphere, Carbon Dioxide remains a genuine potential risk for the confined, industrial and tertiary environments. People are particularly confronted with it in sewers, tunnels, abattoirs, food-processing industries, greenhouses, wine-making or maturing cellars etc...

Light, ergonomic, high performance and with a long life battery, the C 1100 pocket gas detectors allows people to work freely and move about without any risk..



vibration



noise



- **Measurement by Infra Red Cell**
- **User Friendly Display**
- **Long Service Life**
- **Easy to use**



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### High technology

The C 1100 is equipped with an infra-red cell which provides reliable, accurate and stable CO<sub>2</sub> measurement.

### Optimised size and weight

- Small & compact
- Light

### User friendly display

- Large LCD display
- Simultaneous and continuous display of two CO<sub>2</sub> measurements :
  - current concentration
  - 8h TWA value average
- Battery & sensor status indication

### Adapted features

- A single push-button to activate and access main menu
- 12h battery life
- Automatic self-diagnostic

### Controlled environment

- Simultaneous display of the current concentration and the TWA value
- Recording of the data
- Data transfer to a PC for working with the sample and to calibrate the detector

### Safety alarm

- 80 db audible alarm
- Visual alarm on a 5 step LED bar graph (green, yellow and red) displaying the hazard level

### Accessories

- Communication cable
- Battery charger : car (12v) and alternative (in 230 VAC-out 12VCC),
- Replacement battery
- Extra protection casing

**Castle**  
advanced sound solutions



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## Specification

Function :	<ul style="list-style-type: none"><li>• CO2 detector</li></ul>
Type :	<ul style="list-style-type: none"><li>• C 1100</li></ul>
Measurement Range :	<ul style="list-style-type: none"><li>• 0-3 % vol. - 3-10 % vol.</li></ul>
Type of cell :	<ul style="list-style-type: none"><li>• Infra-red</li></ul>
Response Time :	<ul style="list-style-type: none"><li>• 15 sec (at 0.2 litre/min)</li></ul>
Accuracy :	<ul style="list-style-type: none"><li>• <math>\pm 3</math> % of reading or <math>\pm 0.02</math> % vol</li></ul>
Display :	<ul style="list-style-type: none"><li>• Numerical LCD</li><li>• Simultaneous display of CO2 measurement :<ul style="list-style-type: none"><li>- current concentration in % vol.</li><li>- 8 h TWA value in % vol.</li></ul></li><li>• Battery status indication, sensor status indication</li></ul>
Alarms :	<ul style="list-style-type: none"><li>• Audible : 80 dB buzzer</li><li>• Visual: 5 step bar graph LEDs (green-yellow-red) each step in the lighting up of LEDs indicates the hazard level</li></ul>
Self-diagnostics :	<ul style="list-style-type: none"><li>• Sensor</li><li>• Autonomy</li><li>• Electronics</li></ul>
Power supply :	<ul style="list-style-type: none"><li>• Li-ion accumulator (3.6 VDC / 1350 mAh)</li></ul>
Battery charger :	<ul style="list-style-type: none"><li>• 6 VDC/700 mAh</li></ul>
Battery life :	<ul style="list-style-type: none"><li>• 12 hours</li></ul>
Operating temperature range :	<ul style="list-style-type: none"><li>• 0° to +50° C</li></ul>
Storage temperature range :	<ul style="list-style-type: none"><li>• -20° to +70° C</li></ul>
Service life :	<ul style="list-style-type: none"><li>• 15 years</li></ul>
Dimensions :	<ul style="list-style-type: none"><li>• 125 x 52 x 32 mm</li></ul>
Weight :	<ul style="list-style-type: none"><li>• 135 g</li></ul>
Digital interface :	<ul style="list-style-type: none"><li>• USB cable, UART-RS232</li></ul>
UIP-P software :	<ul style="list-style-type: none"><li>• Transfer and save data</li><li>• Configuration of alarms and LED</li><li>• User preferences</li><li>• Sensor calibration</li></ul>