



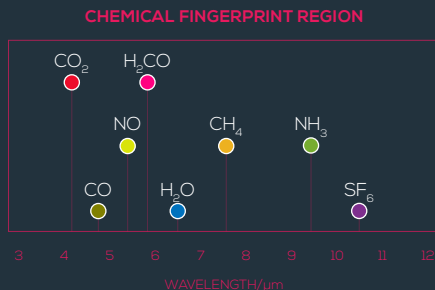
# QCL-BASED MULTI-GAS SPECTROMETER

multiSense

## FEATURES

- ▶ Dual Gas Module available now
- ▶ Real time Sub ppm detection limit (< 1 sec measurement)
- ▶ Very small form factor for mobile/portable application
- ▶ Low power consumption
- ▶ Electronic driving board included

## SPECIFICATIONS



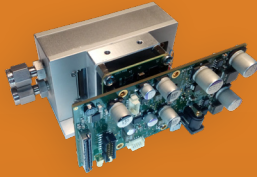
Type	2 or 3 Gases OEM analyzer module
Analysis principle	Mid-IR laser (QCL) + photoacoustic
Gas compatibility	CH <sub>4</sub> /CO <sub>2</sub> /CO/NO/H <sub>2</sub> O/ H <sub>2</sub> CO/NH <sub>3</sub> /SF <sub>6</sub> *

\*More gases available upon request



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# multiSense

## OCL-BASED MULTI-GAS SPECTROMETER

### GENERAL SPECIFICATIONS

Size (without the control board)	<b>10cm (W) x 7cm (D) x 3cm (H) housing for easy OEM integration</b>
Weight	<b>Approx. 200gr.</b>
Electronics control	<b>External mother board control unit with Built-in driver circuit (10cm (W) x 7cm (D) x 3cm (H) - 200gr.)</b>
Electrical connection	<b>Input voltage : 24V DC. Power transformer included.</b>
Power consumption (Typ.)	<b>&lt; 10W</b>
Interfaces	<b>USB, RS232, RS485*</b> <small>*(other interfaces available upon request)</small>

### MEASUREMENT SPECIFICATIONS

Integration time	<b>From ms to sec. e.g. : 1ppm of CO<sub>2</sub> in a few ms 100ppb of CO<sub>2</sub> in &lt; 1sec.</b>
Detection limits	<b>Gas dependent. Typically, from few 10s ppb to ppm level</b>
Dynamic range	<b>&gt; 3 decades</b>
Sample Gas flow rate	<b>&lt; 40ml/min</b>
Temperature range	<b>15-60°C</b>
Sample Gas conditions	<b>Temperature : 20-40°C Moisture : below the ambient temperature saturation Dust : 0.1g/m<sup>3</sup> or less Pressure : 1bar ±10%</b>
Storage conditions	<b>-20°C/ ±60°C</b>



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