

CO000041 - OCISense Breath Ethanol

Designed to meet the most stringent requirements for exhaled air analysis, the OCISense Breath sensor offers a versatile solution for accurate and reliable measurement of **ethanol levels in breath**.



ADVANTAGES

- Thermally stabilized tank for sampling in wet gases
- Fast and consistent measures at all concentrations
- High selectivity with minimal interferences
- Direct flow measurement capability
- Long-term precision and reliability
- Low power consumption
- Compact design for embedded systems

TECHNICAL SPECIFICATIONS

GAS DETECTION : Ethanol (EtOH)

Principle	Non-Dispersive Infrared NDIR
Measuring ranges	0 - 2000µg/L
Unit of measurement	µg/L
Repeatability	0 to 400 µg/L < 7 µg/L 400 to 2000 µg/L < ±1.6% meas.
Measurement error	0 to 400 µg/L < 20µg/L 400 to 2000 µg/L: ±5% meas.
Resolution	1 µg/L

ELECTRICAL CHARACTERISTICS

Supply voltage	3,4 to 5.5 V
Input current	1,5A max
Communication interface	RS232 (Standard or MODBUS)

SAMPLING CHARACTERISTICS

Sampling period	125 ms
Response time (T90)	2,5s at a flow rate of 0,5 L/min
Pressure range	800 – 1200 hPa (mbar)
Flow rate	0,1 to 1L/min

ENVIRONMENTAL CONDITIONS

Operating temperature	0°C to 50°C
Storage temperature	-20°C to +60°C
Starting time	5min at 25°C
Relative humidity	0-95% RH (non-condensing)

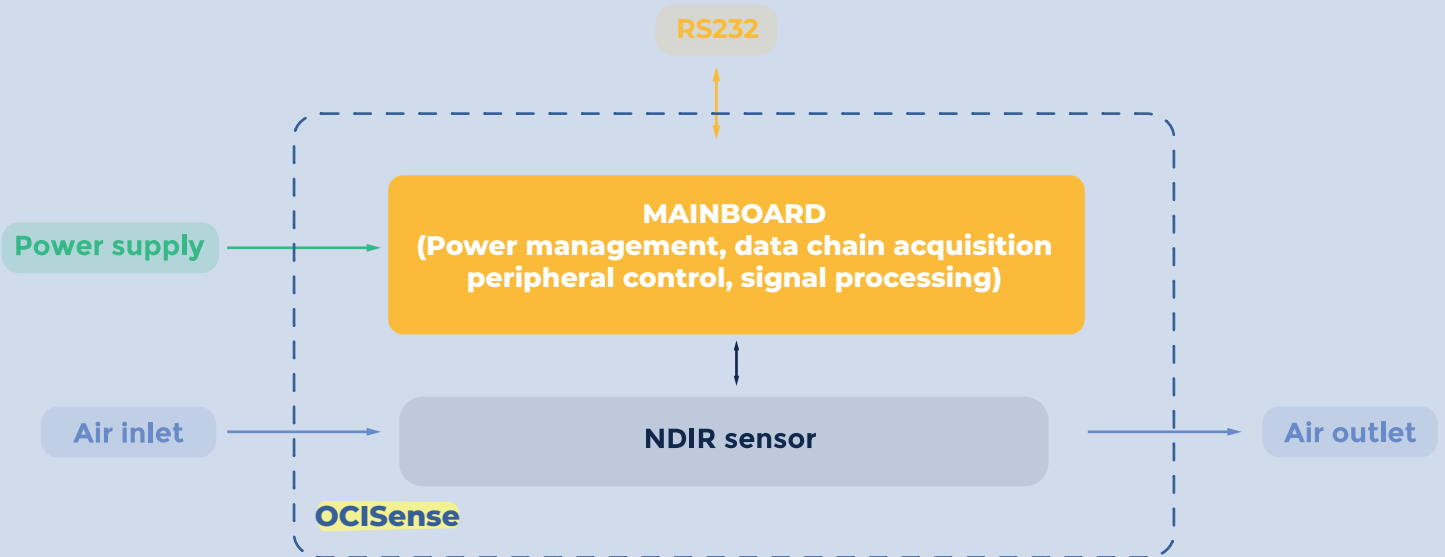
MECHANICAL CHARACTERISTICS

Dimension	Refer to drawing
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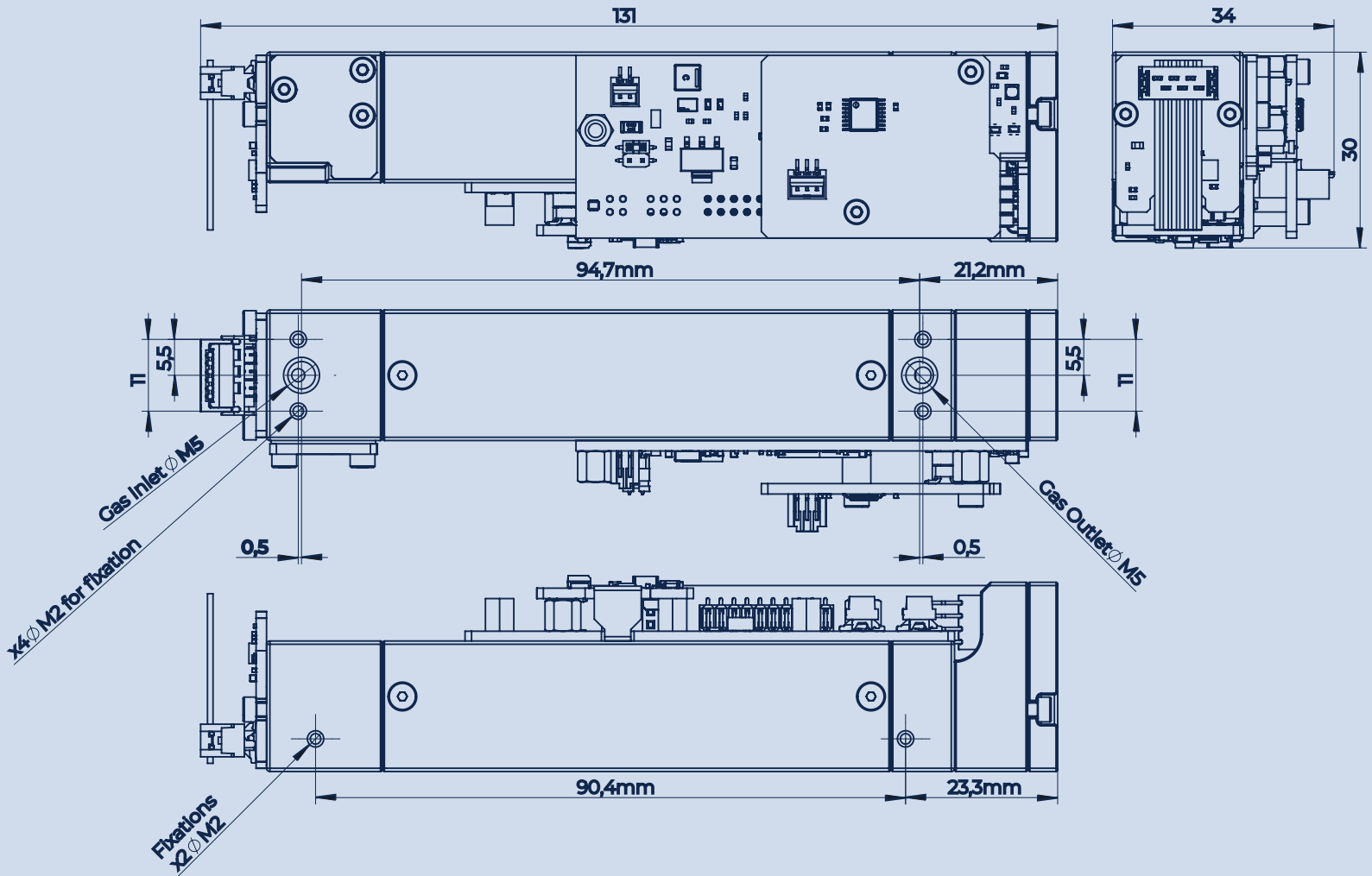


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SENSOR ARCHITECTURE



MECHANICAL DRAWING



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