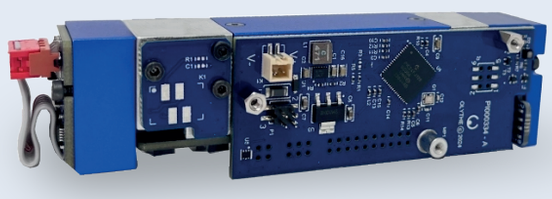
DATASHEET NO059 Rev.A

CO000040 - OCISense N2O

Designed to meet the most stringent requirements for ambient and process air analysis, the OCISense N2O sensor offers a versatile solution for accurate and reliable measurement of **nitrous oxide levels in air**.



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 : Nitrous oxide (N2O)

Principle	Non-Dispersive Infrared NDIR
Measuring ranges	0 - 1000 ppm
Unit of measurement	ppm
Linearity error	<3.5% FS
Repeatability	0,1% FS
Detection limit (3τ)	<0,2% FS
Temp. influence (%FS/°C)	<2.5 (zero) ; <0,5 (span)
Cross sensitivity	<+/-280ppm @CO2 5% vol.

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	1min (30min at full specifications)
Relative humidity	0-95% RH (non-condensing)

MECHANICAL CHARACTERISTICS

Dimension	Refer to drawing

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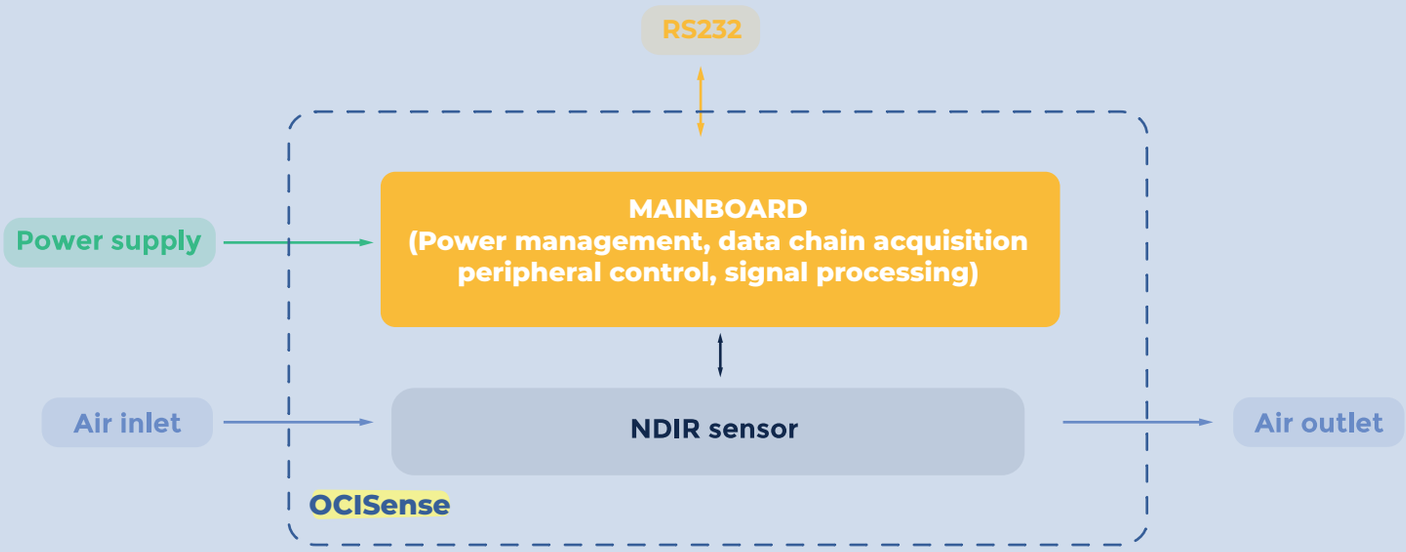
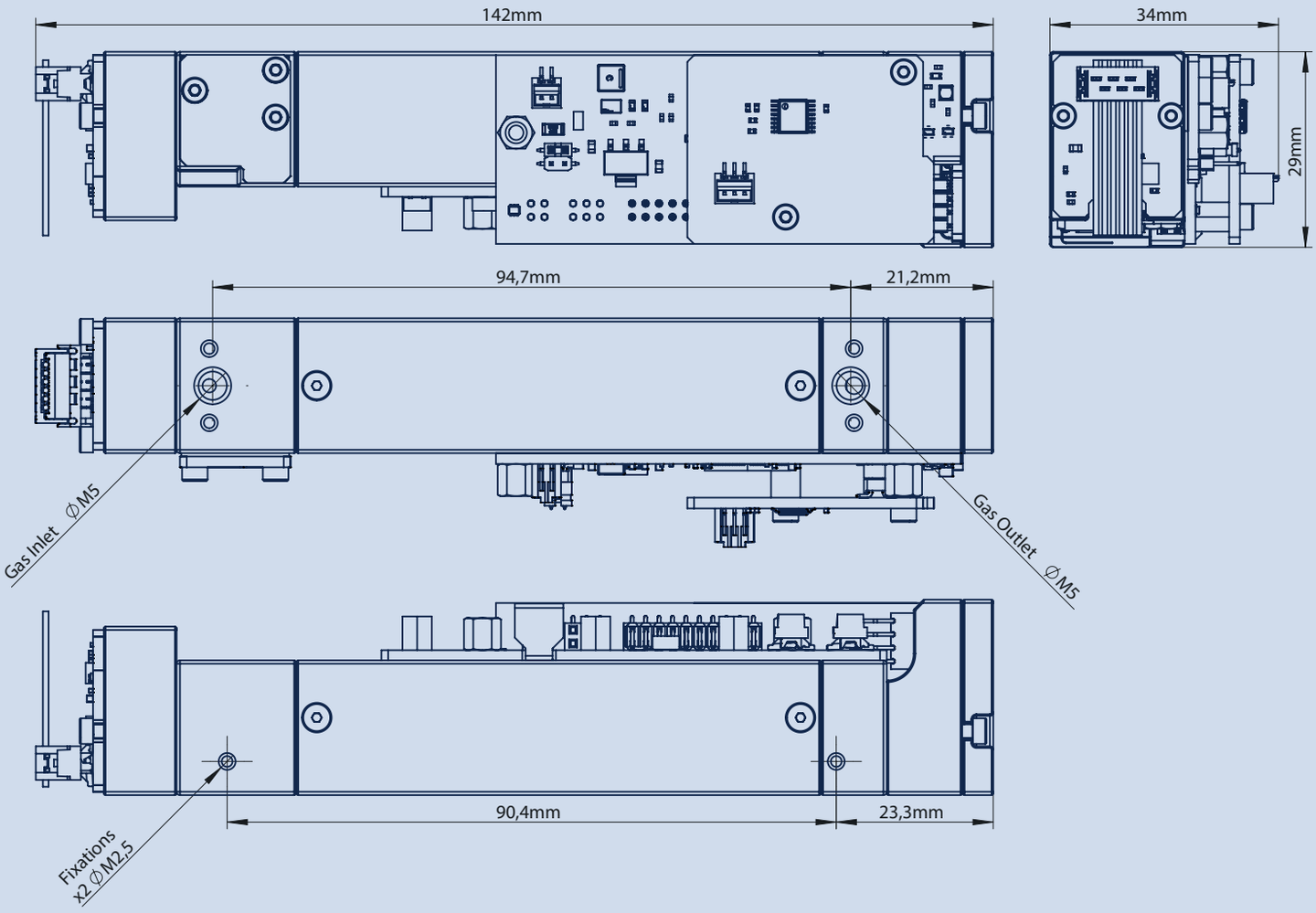
SENSOR ARCHITECTURE



MECHANICAL DRAWING



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