

CO000037 - OCISense CO₂ & CH₄

Designed to meet the most stringent requirements for industrial gas analysis, the OCISense sensor offers a versatile solution for **accurate and reliable measurement of carbon dioxide and methane levels in air.**



ADVANTAGES

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

TECHNICAL SPECIFICATIONS

GAS DETECTION : CO₂ & CH₄

Principle	Non-Dispersive Infrared NDIR
Measuring ranges	0 - 100%
Unit of measurement	%
Linearity error (digital output)	0,5% FS
Repeatability (digital output)	0,1% FS
Detection limit (3 σ digital output)	0,05% FS
Temp. influence (%FS/°C)	<0,1 (zero) ; <0,6 (span)
Cross sensitivity	on demande

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)	4s at a flow rate of 0,5 L/min
Pressure range	800 – 1200 hPa (mbar)
Flow rate	0,1 to 1L/min

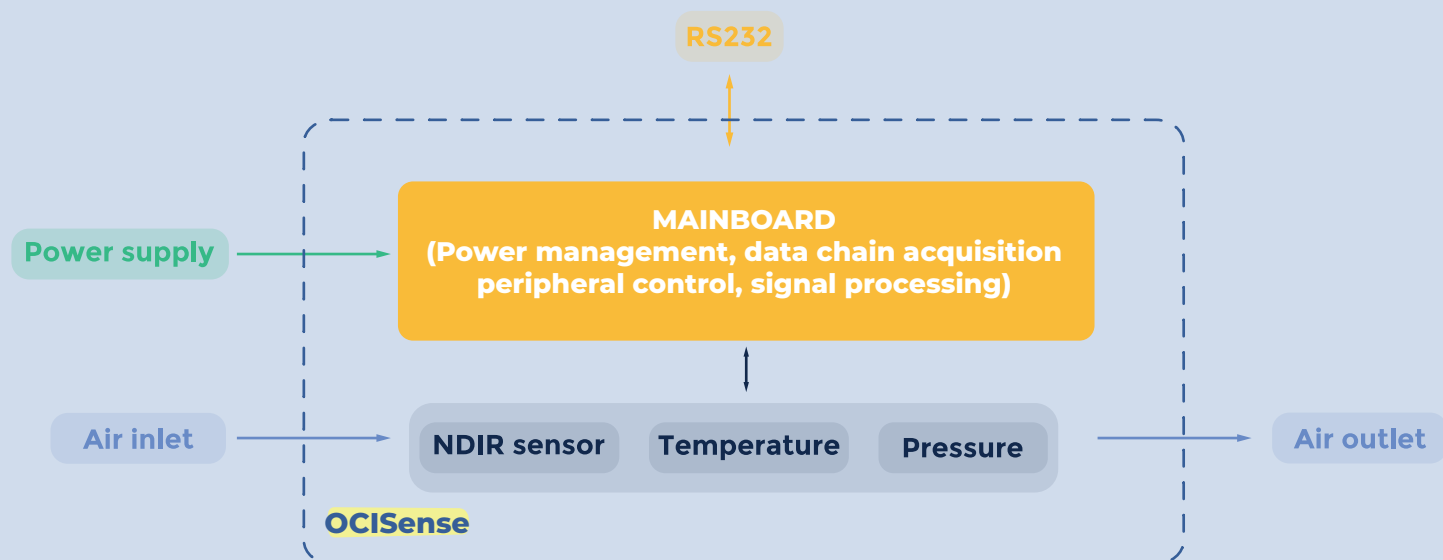
ENVIRONMENTAL CONDITIONS

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
------------------	------------------

SENSOR ARCHITECTURE



MECHANICAL DRAWING

