

TECHNICAL SPECIFICATIONS CAIRSENS

VOCnm 0-16 ppm | A40-0041 & A40-0042

Metrological specifications ⁽¹⁾ ⁽³⁾

Measuring Range	0 – 16 ppm
Shelf life / warranty period	12 months
Detection Limit (LD) ⁽²⁾	500 ppb
Quantification Limit (LQ) ⁽²⁾	1000 ppb
Global uncertainty ⁽²⁾	30%
Response Time [T90%]	60s
Zero drift	< 15 % / month
Span drift	< 15 % / month
Temperature influence	< 1% / °C
Humidity influence	- 0.5 % / RH%
System selectivity	
Photo-ionization PID Lamp	10.6 eV
Span Gas	Isobutylene - C4H8

⁽¹⁾ Based on Isobutylene (C4H8) + carrier gas Dry Air.

⁽²⁾ In compliance with Directive 2008/50/EC of European Parliament.

⁽³⁾ Pure Air at 20 °C, 0 %RH, 1013 mbar

Physical & Electrical characteristics

Dimensions & weight		
	External diameter	32 mm
	Length	62 mm
	Weight	55 g
Electrical characteristics		
	Power Supply	5VDC / 500mA
USB version Only	Average battery autonomy	8 hours
	Average battery recharge duration	4 hours
	Average Battery charging period	8 hours
	Average power	150 mW
	Outputs / Communication	UART & USB
Ambient Operating Conditions		
	Temperature	-20 à 50 °C
	Humidity	0 à 90 %RH without condensation
	Pressure	1013 ± 200 mbar

Recommended Storage Conditions

Temperature	5°C à 20°C
Relative Humidity	10 à 90 % without condensation

Compliance to environmental laws

Electrical safety	NF EN 61010-1 : 2010
Electromagnetic Compatibility	NF EN 61326-1 : 2013
Protection index	IP42 (according IEC 50529)