

Recordly low power
from 0,04mW

MIPEX-04 _[CH₄ | C₃H₈]

Ultra-low power NDIR sensor for
portable and wireless detectors



MIPEX-04 is an ultra-low power NDIR sensor for continuous methane and propane detection in portable and wireless safety systems, including gas clip devices and battery-powered analyzers.

Technical specifications

Parameter	Value
Measurement range, % vol.	0...5, 0...100 – CH ₄
	0...2.5 – C ₃ H ₈
Accuracy (+20...+25 °C)	±0.1% vol. or ±5% of reading (whichever is greater) for CH ₄
	±0.05% vol. or ±5% of reading (whichever is greater) for C ₃ H ₈
Response time T(90) sec.	≤22 – CH ₄
	≤30 – C ₃ H ₈
Operating temperature,	-40...+60 °C
Humidity tolerance	Up to 98% (without condensation)
Supply voltage	+2.8...+5.0 V
Average current, µA	35 max at normal conditions
	40 max at -40...+60 °C
Dimensions	52×24×18 mm
Housing material	Polycarbonate Lexan®
Weight, g.	11.0...13.5
Marking and standards:	
I M1 / II 1G Ex ia op is I Ma / Ex ia op is IIC Ga according to EN IEC 60079-0 / EN 60079-11 / EN IEC 60079-28	
C I, Div1, Gr A,B,C,D; C I, Zone 0, AEx ia op is IIC Ga; Ex ia op is IIC Ga according to UL 913, UL 60079-0, UL 60079-11, UL 60079-28, CSA C22.2 No.60079-0, CSA C22.2 No.60079-11	
Ex ia op is I Ma/Ex ia op is IIC Ga according to IEC 60079-0, IEC 60079-11, IEC 60079-28	

Features

- Target application: IoT solution, wireless and clip gas detectors for industrial safety.
- High-sensitivity version with 10 ppm resolution available.
- Allows designing clip gas detector lasting more than 24 months without charge.
- Lowest available power consumption among combustible gas sensors from 0.04 mW
- Smart sensor with embedded microcontroller returns linearized, temperature-compensated output data.
- Provides intrinsically safe explosion protection level “ia”.

Contact Us



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See the list of the representatives on the website