

MIPEX 04

[CH₄ | C₃H₈]

A revolutionary solution for portable and wireless gas analyzers



MIPEX-04 is an ultra-low power infrared gas sensor developed for use in portable individual detectors and wireless combustible gas monitoring systems

Technical specifications

Parameter	Value
Measurement range	0...2,5% vol.
	0...5% vol.
	0...100% vol.
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 (T90)	<30 seconds – CH ₄ ≤45 seconds – C ₃ H ₈
Operating temperature	-40...+60°C
Humidity tolerance	Up to 98%
Supply voltage	+2.8...+5.0 V
Average power consumption	Less than 40 µA
Dimensions	52×24×18 mm
Housing material	Polycarbonate Lexan™
Weight	11.0...13.5 g
Sensor complies with:	
IEC 60079-0, IEC 60079-11	
EN IEC 60079-0 / EN 60079-11	
UL913, CAN/CSA-C22.2 No. 157-92	

Features

- Uniquely low average power consumption of ~ 0.1 mW
- Supply voltage from 2.5V to 5V, enabling a wide range of power sources for devices
- Dual-wavelength LED technology – ensures high measurement accuracy.
- Compact dimensions - 52×24×18 mm
- Intrinsically safe explosion protection level «ia».

Advantages

- Ultra-low power consumption of just 0.1 mW
- Optimized for IoT systems
- Long-term measurement stability – over 10 years
- Enables the production of autonomous instruments that do not require recharging and maintenance for up to 24 months.