

MIPEX-06

In field tests
[CH₄ | C₃H₈ | CO₂]

Ultra-low power NDIR sensor with thick-pin configuration for portable and wireless devices



MIPEX-06 is an ultra-low power infrared gas sensor designed for automatic continuous measurement of methane, hydrocarbons and CO₂ concentrations in hazardous areas.

Technical specifications

Parameter	Value
Measurement range, % vol.	0...5, 0...100 – CH ₄
	0...2.5, 0...20 – C ₃ H ₈
	0...5, 0...10 – CO ₂
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 or CO ₂
Response time T(90) sec.	≤15 – CH ₄
	≤25 – C ₃ H ₈
	≤20 – CO ₂
Operating temperature	-40...+75 °C
Humidity tolerance	Up to 98% (without condensation)
Supply voltage	+2.7...+5.0 V
Average current, µA	Less than 60
Dimensions	ø20.1×16.6 mm (w/o pins)
Housing material	Polycarbonate Lexan®
Weight, g.	7.5
Sensor is designed in compliance with:	
IEC 60079-0, IEC 60079-11, IEC 60079-28	
UL 913, UL 60079-0, UL 60079-11,	
CSA C22.2 No. 60079-0, CSA C22.2 No. 60079-11	
EN IEC 60079-0, EN 60079-11, EN 60079-28	

This specification is subject to change without notice

Features

- Power consumption: less than 0.2 mW.
- Industry standard size with thick-pin configuration.
- Smart sensor with embedded microcontroller returns linearized, temperature-compensated output data.
- LED based dual wavelength technology.
- Fast response time T(90).
- Measurement range:
 - up to 100% vol. for CH₄;
 - up to 20% vol. for C₃H₈;
 - up to 10% vol. for CO₂.
- Provides intrinsically safe explosion protection level "ia".
- Long-term measurement stability: over 10 years.

Contact Us



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See the list of the representatives on the website