

MIPEX-02 [CH₄ | C₃H₈ | CO₂]

Low power NDIR sensor for industrial safety



MIPEX-02 is intended for automatic continuous measurement of methane, hydrocarbons or carbon dioxide concentration in atmosphere of hazardous areas.

Technical specifications

Parameter	Value
Measurement range, % vol.	0...2.5, 0...5, 0...100 – CH ₄
	0...1.5, 0...2.5 – C ₃ H ₈
	0...1.5, 0...5 – 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 or C ₃ H ₈
	≤30 – CO ₂
Operating temperature	-40...+60 °C
Humidity tolerance	Up to 98% (without condensation)
Supply voltage	+3.0...+5.0 V
Average current, µA	≤ 750
Dimensions	Ø20.3×16.6 mm
Housing material	Stainless steel or Polycarbonate Lexan®
Weight, g.	5.5 (Polycarbonate Lexan®)
	16.6 (Stainless steel)

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

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according to IEC 60079-0, IEC 60079-11, IEC 60079-28

Features

- Low power consumption – less than 2.5 mW.
- Fully digital.
- Smart sensor with embedded microcontroller returns linearized, temperature-compensated output data (-40...+60 °C).
- Industry standard size (Ø20.3×16.6 mm).
- Provides intrinsically safe explosion protection level “ia”.

Contact Us



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See the list of the representatives on the website