

EV Battery Thermal Runaway Gas Sensor (H2 / CO Detection)

Model: EGS10 Series

Product Overview

Multi-gas detector monitoring hydrogen (H2), carbon monoxide (CO), and smoke aerosols for electric vehicle battery pack thermal runaway early warning.

Key Features

- Ultra-sensitive MOX / electrochemical gas sensing core
- Detects H2 (10-1000 ppm) and CO (10-500 ppm) from initial cell venting
- Rapid response time T90 < 3 seconds
- Automotive CAN bus 2.0B or LIN communication output
- Meets GB 38031-2020 and UN ECE R100 EV battery safety standards

Typical Applications

- Automotive & Commercial Vehicles
- Industrial Machinery & Automation
- Electric Vehicles (EV & FCEV)
- Safety Interlocks & Control Systems

Technical Specifications

Parameter	Specification / Technical Value
Detecting Gas	Hydrogen (H2), Carbon Monoxide (CO), VOCs
Detection Range	H2: 10-1000 ppm / CO: 10-500 ppm
Response Time	T90 < 3 seconds
Communication	CAN Bus 500kbps / LIN
Supply Voltage	9V to 16V DC automotive bus
Operating Temp	-40°C to +85°C