

EV Battery Pack Thermal Runaway Pressure Sensor (PS10)

Model: PS10 Series

Product Overview

Fast-response piezoresistive micro-pressure sensor designed for EV lithium battery pack thermal runaway early warning and pack pressure monitoring.

Key Features

- Millisecond-level rapid response to battery cell venting (<2ms)
- Ultra-low pressure detection: 0 to 50 kPa / 0 to 100 kPa
- Digital CAN / LIN or analog ratiometric voltage output
- AEC-Q100 certified automotive-grade ASIC
- Flame-retardant sealed packaging compliant with UL 94 V-0

Typical Applications

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

Technical Specifications

Parameter	Specification / Technical Value
Pressure Range	0 to 50 kPa / 0 to 100 kPa
Response Time	< 2 ms
Supply Voltage	5.0V DC / 12V DC
Output Protocol	Analog 0.5-4.5V / CAN Bus / LIN
Operating Temp	-40°C to +105°C
Overpressure	300% FS