

MODEL SA2

SMART GAS SENSOR

The SA2 Smart Sensor Module combines conventional gas sensing technology with advanced signal processing for diverse safety and environmental monitoring applications. Each module carries a gas detection sensor plus a microprocessor-based conditioning circuit with embedded analytics. Factory programmed for a specific gas and sensitivity range, the SA2 is housed in an RFI/EMI-resistant metallic enclosure with gold-plated pins. A uniform I2C register map across sensor technologies enables OEM standardization and plug-and-play compatibility with smart transmitters and control systems.



SPECIFICATIONS¹

ELECTRICAL

Power Input	3.3 VDC
Power Consumption	10 mW to 1.2 W (sensor dependent)

INTERFACE

Output	I2C slave (standard register map)
Measurement Units	LEL, %Vol, PPM, PPB

MECHANICAL

Dimensions	40 mm x 40 mm x 22 mm
Housing	Keyed metallic, RFI/EMI resistant
Pins	Gold-plated

Specifications subject to change without notice.

FEATURES

Electrical

- Power input: 3.3 VDC
- Power consumption: 10 mW to 1.2 W (sensor dependent)
- Low power for battery and solar applications

Mechanical

- Keyed metallic housing for installation and RFI/EMI resistance
- Small form factor: 40 mm x 40 mm x 22 mm
- Gold-plated pins for reliable connectivity

Interface

- Measurement units: LEL, %Vol, PPM, PPB
- Standard I2C slave output across all technologies
- Uniform register map for OEM standardization
- Plug-and-play with smart transmitters and controllers

● APPLICATIONS

- Combustible gas detection
- Toxic gas detection
- Carbon dioxide monitoring
- Oxygen deficiency
- Volatile organic compounds (VOCs)