

FlameIR-ME1

GSS
Gas Sensing Solutions

- **Ultra-low power methane sensor**
- **Ideal for battery-powered operation**
- **User programmable configuration**
- **Solid-state LED technology**
- **ATEX approved**



About the FlameIR-ME1

The FlameIR-ME1 is a low-power NDIR CH₄ sensor using state-of-the-art solid-state LED optical technology.

The FlameIR-ME1's low power consumption is compatible with battery powered operation, allowing the sensor to be used in a wide variety of applications including wirelessly connected equipment.

The FlameIR-ME1 operation is configurable depending on user requirements. On power-up, the FlameIR-ME1 automatically starts taking measurements, which can be read out across a choice of digital interfaces, or from the analogue output.

The FlameIR-ME1 also features a built-in zero-tracking function to maintain CH₄ measurement accuracy over the lifetime of the product. The sensor can be zeroed at power-on, and periodically for applications that are permanently powered.

Features

- Ultra-low power, <5mW average
- 0.01% typical measurement accuracy
- Solid state NDIR LED technology
- UART or I²C interface
- Analogue or digital CH₄ measurements
- Zero tracking and auto-calibration
- Real-time temperature correction
- Altitude pressure compensation

Applications

- Industrial Health and Safety
- Pollution and Emissions Monitoring
- Mining

Certification

- ATEX II 1GD Ex ia IIC T4 Gb
- NEC Class 1, Div. 1, Groups A, B, C, D