

Gas Leak Detector

Model No: SENSE-LD100

Data Sheet



Parameter	Description
Target Gas	Ammonia (NH3)
Gas Code	SG2
Product Platform	SENSE-LD100
Enclosure Type	WP - Weather Protected
Document Type	Data Sheet
Document Revision	Rev. 1.0

Important: This manual is prepared for installation, wiring, commissioning, operation, calibration and maintenance of the SENSE-LD100 gas leak detector platform. Read the complete manual before installation and operation.

OVERVIEW

The **SENSE-LD100** is a microprocessor-based industrial gas leak detector that supports multiple sensor technologies for reliable gas monitoring. Its modular design allows different gas sensor modules to be used on the same hardware platform, depending on the configured application and calibration.

Features

- Weatherproof industrial enclosure for non-flameproof industrial areas.
- Calibration data stored inside sensor module.
- Supports oxygen, ammonia, toxic and combustible gas sensing variants.
- Fast leak detection response based on selected sensor technology.
- 4-20 mA analog output for PLC/SCADA/BMS/data logger integration.
- RS485 Modbus RTU communication for digital monitoring.
- Relay alarm outputs for hooter, exhaust, sprinkler or alarm interlock applications.
- Built-in buzzer with acknowledgement function.
- Three-stage LED indication for normal, warning and alarm levels.
- Continuous 24x7 industrial monitoring operation.
- Compatible with PLC, SCADA, BMS and IoT systems.

Applications

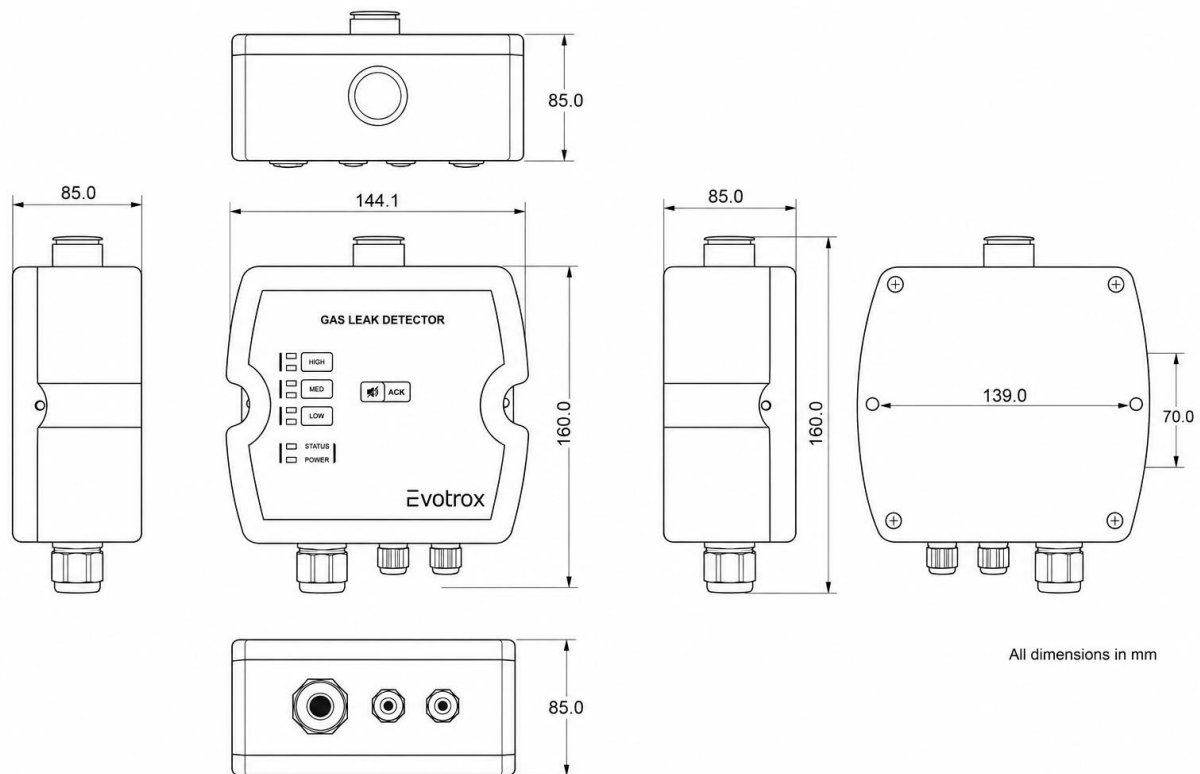
- Cold storage plants
- Refineries
- Gas metering skids
- Gas pipeline projects
- Oil and gas industries
- Chemical storage areas
- Boiler and furnace areas
- Controlled atmosphere systems
- Power and industrial plants
- Industrial safety and ventilation monitoring systems

TECHNICAL SPECIFICATIONS

Parameter	Specification
Sensor Technology	Electrochemical / Catalytic / Pallister / NDIR
Configured Target Gas	Ammonia (NH ₃) - SG-2
Sensing Range	0 to 1000 PPM
Cross Sensitivity	Nil
Typical Power Supply	24 VDC
Power Supply Range	12 to 30 VDC
Outputs	4-20 mA
Communication	RS485 Modbus RTU
Digital Output	Relay Output
Operating Temperature	-15°C to +50°C
Storage Temperature	-10°C to +60°C
Humidity	<95% RH, non-condensing recommended
Mounting	Wall mount
Operation	Continuous 24x7 monitoring
Enclosure	Weather protected industrial enclosure

MECHANICAL DIMENSIONS

The following dimensional drawing provides the mechanical dimensions required for mounting and installation planning.



ORDERING INFORMATION

Ordering format: **SENSE-LD100-SG2-GF2**

Code Segment	Meaning
SENSE	Product Family
LD100	Product Model
SG2	Targeted Gas
GF2	Filter Category
Ordering note: Final ordering code may include additional options such as gas range, relay logic, output configuration, cable gland type, calibration certificate and communication settings.	

CONTACT INFORMATION

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