

Gas Leak Detector

Model No: SENSE-LD101

DATA SHEET



Item	Information
Measured Parameters	Ammonia (NH ₃)
Sensor Code	SG-2
Product Platform	SENSE-LD101
Enclosure Type	FP - Flameproof
Document Type	Data Sheet
Document Revision	Rev. 1.0
Important: Read this complete manual before installation, commissioning, operation, calibration or servicing of the temperature and RH transmitter	

OVERVIEW

The detector is designed for continuous 24x7 monitoring of combustible, toxic, and oxygen-related gas hazards in hazardous industrial areas. Its flameproof enclosure ensures safe and reliable operation in classified environments.

Features

- Dual parameter Temperature & Humidity monitoring
- 2 × 4-20 mA analog outputs
- Integrated condensation prevention support
- Reverse polarity and incorrect wiring protection
- Multiple industrial-grade filter variants available for any weather conditions
- Specially Designed for Rough Environments & high humidity applications
- Wall Mount & Duct both Mount Variants

Applications

- Cold storage plants, cold rooms and refrigeration utility areas
- Compressor rooms, HVAC rooms and utility areas
- Warehouses, storage areas and process rooms where temperature/RH monitoring is required
- Boiler rooms, AHU rooms and industrial plant rooms
- Ventilation, HVAC and environmental alarm interlock systems
- Food, dairy and beverage processing plants
- Pharmaceutical warehouses and production utilities
- Water and wastewater treatment plants
- Industrial environmental monitoring panels
- SCADA, BMS, PLC and IoT-based environmental 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 Range	12 VDC to 30 VDC
Outputs	4-20 mA, relay and buzzer
Communication	RS485 Modbus RTU
Operating Temperature	-15°C to +50°C
Storage Temperature	-10°C to +60°C
Humidity	<95% RH, non-condensing recommended
Mounting	Wall / surface mount
Operation	Continuous 24x7 monitoring

MECHANICAL DIMENSIONS

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

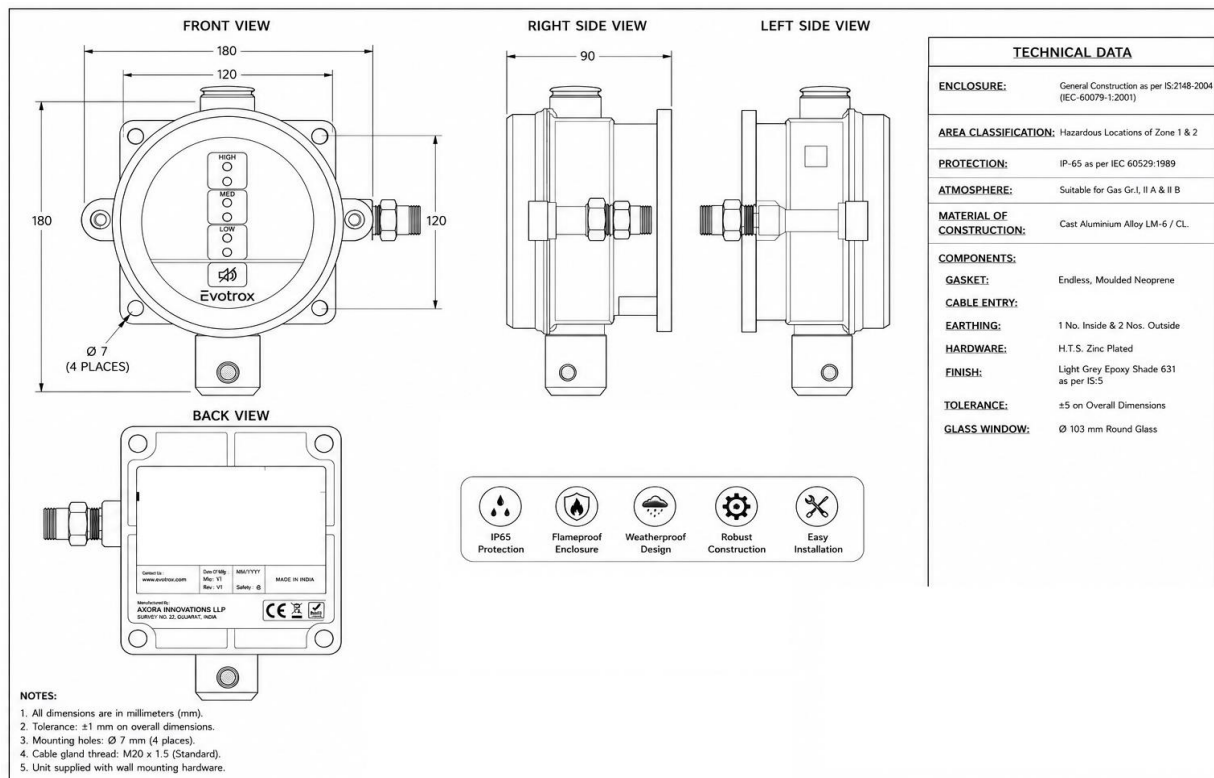


Figure: Exploded View and Parts Description

ORDERING INFORMATION

Ordering format: SENSE-LD101-SG2-GF2

Code Segment	Meaning
SENSE	Product Family
LD101	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.	

Filter Variants

Code	Filter Type	Working Area	Protection
GF1	SS Mesh	Normal factory air	Dust protection, fast response
GF2	SS Sintered	Dusty industrial areas	Strong dust protection
GF3	PTFE Membrane	Outdoor / condensation	Blocks liquid water
GF4	PTFE + AC Membrane	Chemical vapors	Protects from chemicals
Note: If no filter option is specified during ordering, standard F1 filter variant will be supplied by default.			

CONTACT INFORMATION

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