

Multi-Gas Sensor

Model No: SENSE-GT101

Data Sheet



Item	Information
Target Gas	Ammonia (NH ₃)
Gas Code	SG2
Product Platform	SENSE-GT101
Enclosure Type	FP - Flameproof industrial enclosure
Document Type	Data Sheet
Document Revision	Rev. 1.0
Important: Read this complete manual before installation, commissioning, operation, calibration or servicing of the gas transmitter.	

OVERVIEW

The SENSE-GT101 combines industrial sensing, communication and cloud-ready architecture into a single flameproof platform suitable for smart industrial monitoring applications.

Features

- Flameproof industrial enclosure suitable for hazardous areas.
- Supports up to 3 targeted gases in a single transmitter.
- Higher-accuracy sensing platform for targeted gas monitoring.
- Integrated temperature, RH and pressure sensing.
- 2.4-inch TFT LCD color display.
- Touch keypad interface for device configuration with all applicable safety precautions.
- RS485 Modbus RTU communication.
- Modbus TCP/IP communication support.
- PoE (Power over Ethernet) support.
- Ethernet and Wi-Fi internet connectivity.
- Cloud protocol support: MQTT(S), HTTP(S).
- Default compatibility with Linked IoT SCADA platform.
- 4-20 mA analog outputs and relay outputs.
- Built In buzzer and top alarm indicator/lens for alarm annunciation.
- IP65 industrial protection.
- Continuous 24x7 monitoring operation.

Applications

- Oil & Gas Plants
- Refineries
- Cold Storage Plants and Ammonia Refrigeration Areas
- Chemical Processing Industries
- LNG / LPG Areas
- Boiler Rooms
- Compressor Rooms
- Hazardous Storage Areas
- Pharmaceuticals
- Industrial Safety Systems
- Gas metering skids and pipeline projects
- Ventilation monitoring and alarm interlock systems

TECHNICAL SPECIFICATIONS

Parameter	Specification
Sensor Technology	Electrochemical / Catalytic / Pellistor / NDIR
Configured Target Gas	Ammonia (NH ₃) - SG-2
Sensing Range	0 to 1000 PPM
Cross Sensitivity	Nil
Gas Channels	Up to 3 targeted gases in one unit
Environmental Parameters	Temperature, RH and pressure detection along with gases
Display	2.4-inch TFT LCD color display
User Interface	Touch keypad for device configuration
Typical Power Supply	24 VDC
Power Supply Range	12 to 30 VDC
PoE	PoE (Power over Ethernet)
Outputs	2 x 4-20 mA, relay
Communication	RS485 Modbus RTU, Ethernet Modbus TCP/IP (Optional)
Internet Connectivity	Ethernet / Wi-Fi
Operating Temperature	10°C to +50°C
Storage Temperature	10°C to +60°C
Humidity	<95% RH, non-condensing recommended
Mounting	Wall / surface mount

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



Ordering format: **SENSE-GT101-SG2-GF2-I1**

Code Segment	Meaning
SENSE	Product Family
GT101	Product Model
SG2	Targeted Gas
GF2	Filter Category
I1	WAN Card for Internet
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.

Network Variants

Code	Module Type	Description
I1	WAN Card for Internet	Used to connect device to internet for Remote Applications
L1	LAN Card for Local Network	Used to connect device to local network for PLC / Scada Applications

Note: If no filter option is specified during ordering, standard F1 filter variant will be supplied by default.

CONTACT INFORMATION

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