



METHASENSE

Natural Gas Detector



Description

Methasense is a natural gas detector which is battery operated and wireless. It is suitable for residential, commercial and industrial applications.

Methasense delivers rapid and reliable detection of natural gas (methane). It can automatically alert both occupants and the emergency services when natural gas is detected. This early warning can protect both people and property by preventing gas leak incidents from escalating.

The innovative natural gas detector incorporates patented cutting-edge gas sensor technology with its advanced non-dispersive infrared (NDIR) dual-channel architecture.

Methasense Natural Gas Detector has a battery life of 10+ years. This includes both the NDIR gas sensor being constantly ON and with it outputting a configurable wireless "heartbeat" message.

Methasense features high selectivity to natural gas (methane) and is immune to sensor poisoning and saturation.

Methasense offer low cost of ownership.

Features

- Wireless heartbeat message every 8 hours (wireless option only)
- Battery life is 10+ years with gas sensor constantly ON
- Audible alarm: piercing buzzer (85dB @ 10 feet). US versions also have a speaker
- Visual Alarms - LED (3 colors) for power, fault, and alarm
- UL1484 & EN50194 compliant
- Methane (CH₄) selectivity guarantees no false alarms
- Fast response time, no drift and no recalibration required
- Compatible with Advanced Metering Infrastructure (AMI)
- Configurable connectivity: LoRaWAN / Bluetooth Low Energy 4.2 / NB-IoT/LTE-M / Itron Milli5 / Other protocols available on demand



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Technical Data

Sensor

Technology	Non-Dispersive Infrared (NDIR)
Gas detected	Natural Gas (Methane)
Range	0 to 100% LEL
Alarm Level	10% LEL
Calibration	Not required

Performance

Accuracy	3% LEL or 10% of reading
Response time	< 75 s
Sensor Life	> 5 years
Temperature and Humidity sensors integrated	

Housing

Ingress Protection	IP54
Weight	0.64 pounds
Dimensions	W 2.75 in x H 3.77 in x D 1.15 in

Battery

Technology	3.6V Lithium Thionyl Chloride
Capacity	14.8 Ah
Lifetime	10 years

Environmental Conditions

Operating Temperature	14°F to 122°F
Operating Humidity	0% to 95%, non condensing

Local Communication

Buzzer	Sound level 85dB @10 ft
Speaker	Pre-recorded message (UL version)
Visual Alarm	LED (3 colors) for power, fault, and alarm

Wireless connectivity

LoRaWAN (EU & US)	
NB-IoT/LTE-MWIZE	
Milli5 (ltron)	
Wi-Sun	
Health message / 8 hours, Gas alarm / 3 minutes	

Approvals

UL1484 & EN50194
2014/53/EU RED
FCC Part15

References	
METHANSENSE-UL	Standard Version, Pre-recorded message, UL1484
METHANSENSE-L915-UL	LoRaWAN Version, Pre-recorded message, UL1484
METHANSENSE-EU	Standard Version, EN50194
METHANSENSE-L868-EU	LoRaWAN Version, EN50194

Teledyne Gas & Flame Detection quality assurance programmes demand the continuous assessment and improvement of all our products. Information in this leaflet could thus change without notification and does not constitute a product specification. For more information, please contact us or your company representative.



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