TELEDYNE GAS AND FLAME DETECTION
Everywhereyoulook™

METHASENSE XP

Natural Gas Detector

Description

Methasense XP is a wireless, battery-operated, Natural Gas Detector designed for use in industrial environments.

Methasense XP ensures the prompt detection of gas presence, alerts individuals and emergency services, ensuring the safety and security of individuals, and the surrounding environment, while effectively preventing potential incidents from escaping.

Methasense XP seamlessly integrates cutting-edge gas sensor, featuring its patented advanced NDIR (Non-dispersive Infrared) dual-channel architecture.

Methasense XP Natural Gas Detector has a 10+ years of autonomy on battery, with the sensor constantly ON and a configurable wireless heartbeat message.

Methasense XP benefits from high selectivity of the gas of interest and suffers no corrosion, no saturation nor poisoning.

Features

- 10+ years of autonomy on battery with the sensor constantly ON and a heartbeat message sent every 8 hours to a device management platform (with the wireless option)
- Integrated audible alarm: buzzer
- 3 visual LED for device status
- UL1484 & EN50194 compliant
- CH4 selectivity guarantees no false alarm detection
- Fast response time, driftless and no recalibration required
- MethaSense XP is configured and available for Advanced Meterd Infrastructured (AMI): LoRaWAN / Bluetooth Low Energy 4.2 / NB-IoT/LTE-M /Itron Milli5 / other protocols on demand

Applications

- Natural Gas distribution networks
- Industrial environments

METHASENSE XP

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Technical Data

General

Technology	Non-Dispersive Infrared (NDIR)
Gas detected	Natural Gas (Methane)
Range	0 to 100% LEL
Alarm Level	10% LEL
Calibration	No recalibration requested

Performance

Accuracy	3% LEL or 10% of reading
Response time	< 75 s (Methane)
Temperature and Humidity sensors integrated.	

Housing

Ingress Protection	IP54
Weight	290 g
Dimensions	115 x 84 x 35 mm

Electrical

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

Environmental Conditions

Operating Temperature	-10°C to 50°C
Operating Humidity	0% to 95 % RH no condensation

Local Communication

Buzzer	Sound level 85dB @3m
Speaker	Pre-recorded message
Visual	3 colors LED status (Power, Default, Alarm)
Button	Test

Wireless connectivity

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

Approvals

ATEX 2014/34/UE
Ex ib op is IIC T4 Gb
FCC Part15
RED 2014/53/EU

References	
METHANSENSE XP	Std Version, ATEX
METHASENSE XP-L868EX	LoRaWAN Version, ATEX

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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