SG-02-GS-xx
ZigBee Residential Combustible Gas Detector

ZigBee Control your world
HA Profile Compliant

CE FC

Features & Benefits

■ Stylish design with pearl-white color suited to apply in any residential apartment, building, house, hotel, hostel, retreat center, senior care and assisting living center, hospital, warehouse, retail store, movie theater, stadium, school, transportation stations, museum, factory, office and studio…etc.

■ Wireless connectivity via ZigBee global wireless standard makes it easy to interoperate with ZigBee-enabled gateway to form a net of security and remote alert implementation.

■ Centered-design of smoke chamber allows it to sense gas leak omni-directionally without blind angles to get the effective detection and safety.

■ Human voice alert with decibel siren together with flashing LED make it super easy to be aware when event occurs.

■ Automatically malfunction detection makes user proactively and easily maintain the unit and increase safety for you.

■ Wireless connectivity check alive regularly between detector and center for maximum security.

■ Detector has passed stringent tests as listed in description, which proves to excel in detecting true fire smoke and greatly eliminates false alarms caused by interference from nearby sources.

■ Simple test method: Press test button to hear the human confirmation voice, the user will know the detector is in normal.

■ Easy installation: Install directly to proper location without any wiring. The invisible connectivity has been built up for your safety.

Description:

Gas leaks are not just a threat to workplaces. Residential homes using gas appliances are equally at risk, thus, it is very dangerous due to the lack of awareness in how to detect and prevent a gas leak. Just like fire alarms, adequate gas detection solutions should be employed in all homes.
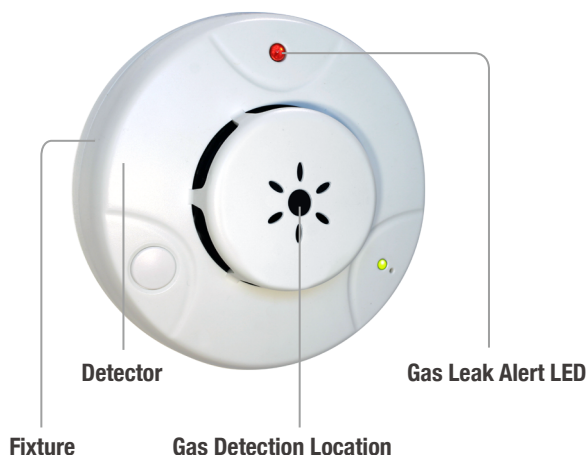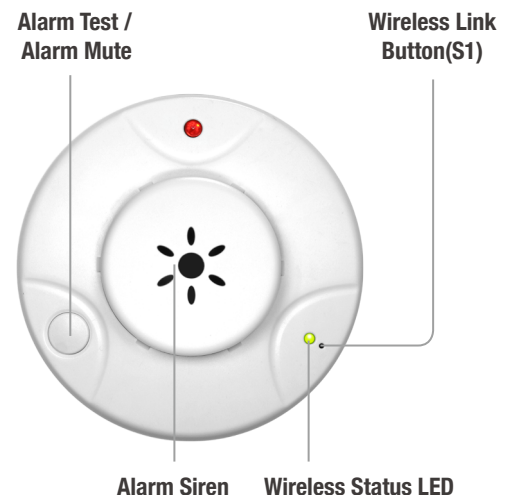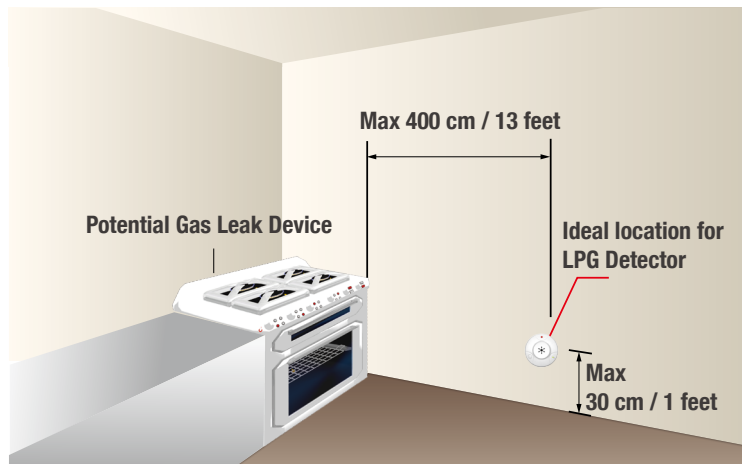
The Nietzsche's SG-02-GS Gas detector is susceptible to the threat of natural gas and LPG offering reliable protection for all domestic environments. Whenever the gas leak has reached alert level, so-called Low Explosive Limit, the unit starts to flash alarm, sound alarm, and wirelessly signals to control center for real-time rescue action.

This is designed specially for residential, commercial and any places that gas leak event could happen. We hope you will never face that situation, but it is better to have something to ensure life safety to get peace of mind.

Specifications

Detecting Substance	Natural Gas and Liquid Petroleum Gas		RF Transmit Distance	Up to 100 meters
Sensitivity	10% LEL for Natural Gas; 15% LEL for LP Gas		Ambient Temperature	0 ~ +50 °C / +32 ~ +122 °F
Power Supply	12 V DC adapter		Material	UL 94_V0 fire protection material
Sound of Alarm	80 dB and above with human voice alarm indication		Dimensions	(D)100 mm X (H) 40 mm (including fixture)
RF Communication	Wireless ZigBee		Weight	117 g (with adapter); Adapter: 98 g
RF Protocol	ZigBee Standard Home Automation Profile		Color	Pearl-white
RF Band	2.40 ~ 2.48 GHz		Light Indication	LED: Green for wireless link; Red for alarm
RF Check Alive	Every 30 seconds (Adjustable)		Decible Indication	Siren for alarm

Detector Outlook Introduction

Detector   Gas Leak Alert LED

Fixture   Gas Detection Location

Alarm Test / Alarm Mute   Wireless Link Button(S1)

Alarm Siren   Wireless Status LED

Ideal Installation Location

Detects Liquid Petrolium Gas Leak ▼

Potential Gas Leak Device

Max 400 cm / 13 feet

Ideal location for LPG Detector

Max 30 cm / 1 feet

Detects Natural Gas Leak ▼

Ideal location for Natural Gas Detector

Max 30 cm / 1 feet

Potential Gas Leak Device

Max 500 cm / 16 feet

System Configuration

End Device	Router	Coordinator	Application Interfaces

SG-02-GS-xx

WZB-01USBR

WZB-02485R

Star/ Tree/ Mesh

Coordinator/ Gateway

Internet

Cloud-enabled

Local System

PLC / DAQ / SCADA
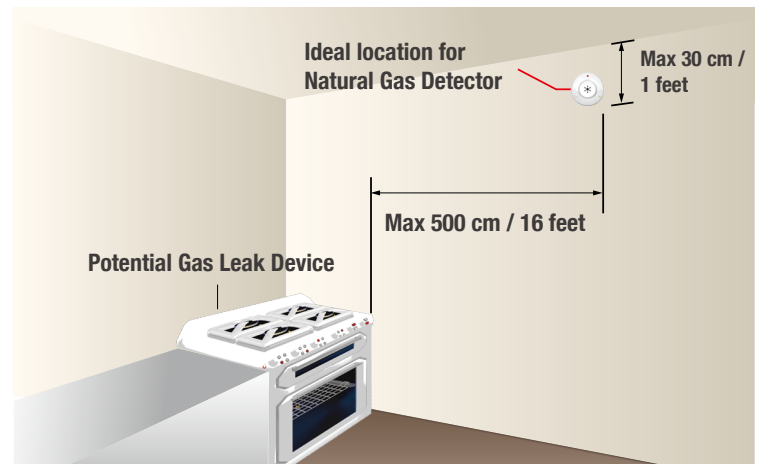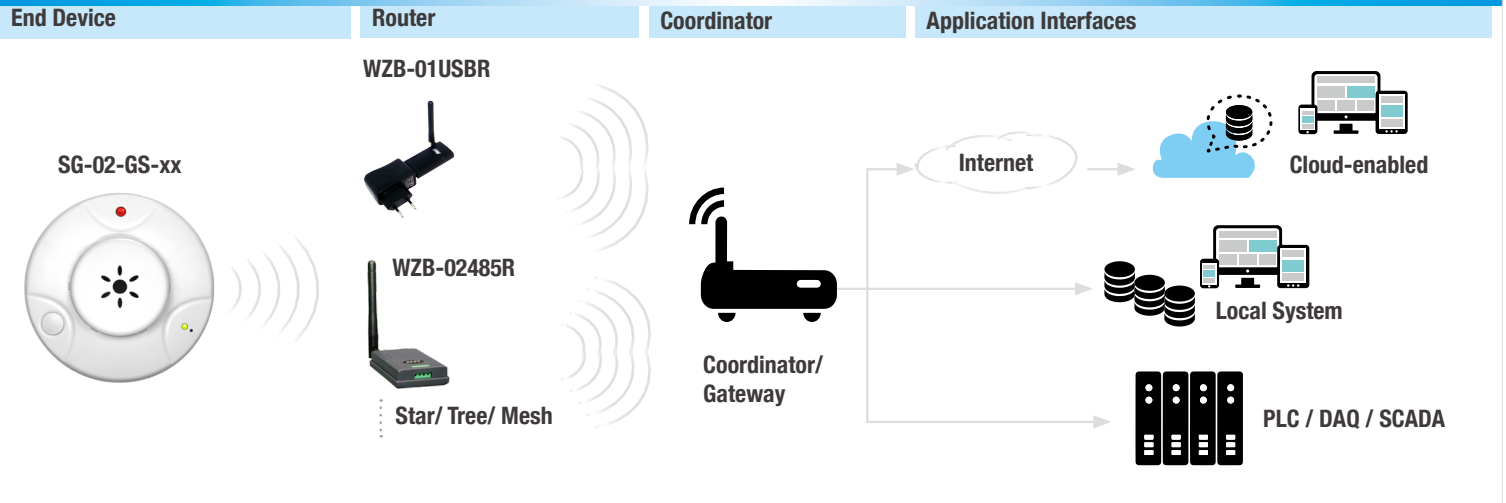
Ordering rules and codes

SG-02-GS-XX

Power supply: B for battery;
1 for US; 2 for EU; 3 for UK

Protocol: H for HA; M for ModBus;
S for Stand-alone

Sensor: GS for Natural gas and LP Gas

Ordering codes

Ordering codes	Description
SG-02-GS-H1	ZigBee Combustible Gas Detector with US adaptor with ZHA profile
SG-02-GS-H2	ZigBee Combustible Gas Detector with EU adaptor with ZHA profile
SG-02-GS-H3	ZigBee Combustible Gas Detector with UK adaptor with ZHA profile
SG-02-GS-S1	Stand-alone Combustible Gas Detector with US adaptor
SG-02-GS-S2	Stand-alone Combustible Gas Detector with EU adaptor
SG-02-GS-S3	Stand-alone Combustible Gas Detector with UK adaptor
WZB-01USBC	ZIgBee USB dongle
WZB-05ET	ZIgBee ethernet gateway (Supports DHCP)
G07	SentrolCloud controller gateway for ethernet/3G/Wi-Fi
WZB-01USBR	ZigBee repeater/ router - AC Universal adaptor power supply
WZB-02485R	ZigBee reapeater/ router - DC 9 - 24 power supply