

Better Safety, Better Life
Challenge, Innovation

SENKO



- **Electrochemical Gas Sensor**
- **Portable Gas Detector**
- **Fixed Gas Detector**



Welcome Message

**SENKO doing its best.
We promise to show our best efforts to satisfy our customers.**



Though our country, Korea has an excellent competitiveness based on the technology even in the global endless competition days, the dependence on the advanced countries is as high as what it could be said to be technically governed in the gas sensor and gas safety equipment industry.

The gas sensor technology which could create the high additional value grafting with another industries, is one of the perspective technology which are growing very fast, as the environment and safety are being highly concerned.

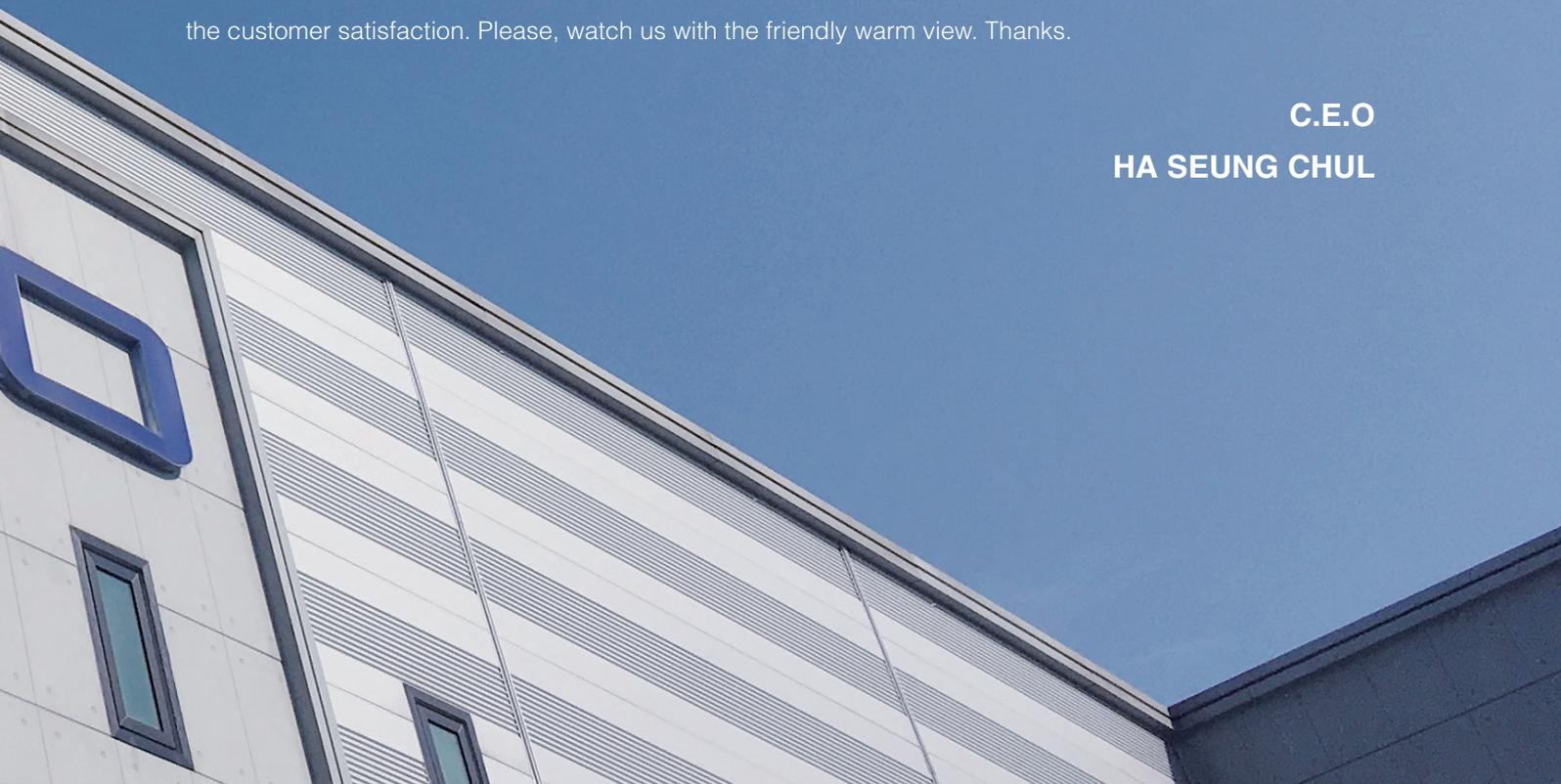
Senko Co., Ltd. had developed sensors of the carbon monoxide, hydrogen sulfide by our own technology, starting the oxygen sensor. We had also developed to produce the gas safety equipment and its system such as the portable gas detector in the industrial field. We have been doing our best to localize the Korean domestic market which is dominated by foreign countries' products as well as to develop the oversea market.

We will do our every possible efforts to be together wherever with our customer and surely stand based on the venture enterprise spirit in the industrial safety gas equipment area which the domestic enterprise never concerned. We are trying to develop the more efficient, convenient products for the customers, using the new technology as well as the conventional gas safety equipment.

We will establish the strategic partnership with the excellent institute/enterprise who have the technical competitiveness in another industries. We will be born again to focus to develop the new product of the high additional value technically fused through the co-research based on this partnership.

Being one family based on the mutual trust to become the world wide company, we will found the business culture which all staffs could do our best. We promise to show our customers our efforts to do our best for the customer satisfaction. Please, watch us with the friendly warm view. Thanks.

C.E.O
HA SEUNG CHUL



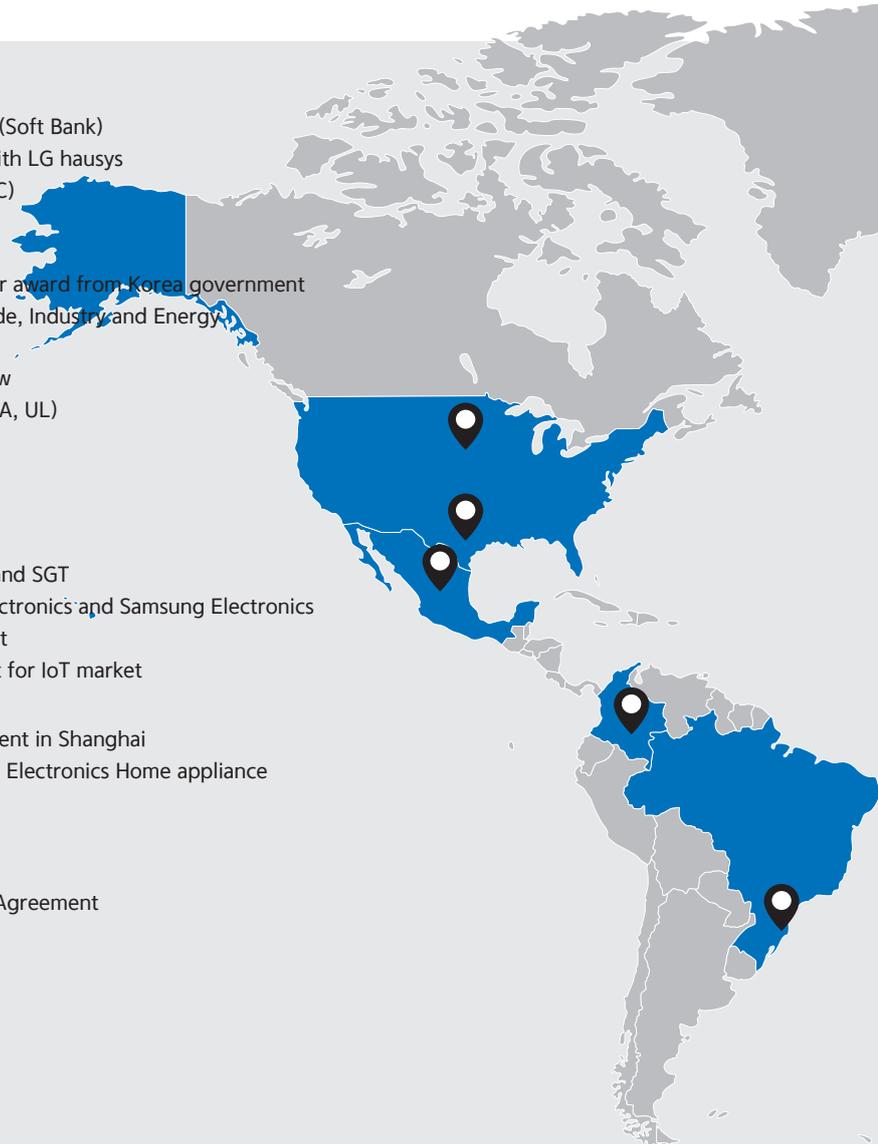
Our History

SENKO Co., Ltd. was established based on own Electrochemical Gas Sensor Technology.

SENKO Co.,Ltd. was founded in 2004 and has developed Gas detector, Gas monitoring system based on his own Gas sensor technology. Now, SENKO is producing more than 12 gases sensor with various physical structure. SENKO has invested in research and development of new gas sensor and has customized typical electrochemical gas sensor to satisfy the requirements of Consumer product manufacturer like Samsung Electronics & LG Electronics. We are welcome to cooperate with customers for the customized sensor development.



- 2019**
 - Certifications for SGT-P(IECEX, ATEX)
 - OEM contract with Encored Japan Inc.(Soft Bank)
 - IoT Odor monitoring system project with LG hausys
 - Registered in Kuwait Oil Company(KOC)
- 2018**
 - Establishment EU branch in UK
 - Received 3 million dollars export tower award from Korea government
 - Received citation from Ministry of Trade, Industry and Energy
- 2017**
 - Establishment Russia branch in Moscow
 - Certifications for SGT(ATEX, IECEX, CSA, UL)
- 2016**
 - IoT "SOOM" Brand launching
- 2015**
 - Green technology certificate
 - IECEX certifacate for SI-100, SI-100C and SGT
 - Co-development program with LG Electronics and Samsung Electronics
 - System Business Division establishment
 - New customized sensor development for IoT market
- 2014**
 - SENKO China Joint Venture Establishment in Shanghai
 - Colormetric sensor supply to Samsung Electronics Home appliance
 - China CPA, CCCF Sertificate
- 2012**
 - SENKO Osan Factory (land 2,968m²)
 - 35 Oversea Countries Distributorship Agreement
 - Gost & Immetro Certicate
 - Award from Korea President
- 2004**
 - SENKO Co., Ltd. Establishment



Global Sales Network

Global Office

SENKO Korea

Sales team

Phone: +82 31 492 0445

E-mail: sales@senko.co.kr

SENKO EU

Phil Saxton

Phone: +44 (0) 7980 731510

E-mail: phil.saxton@senkoeu.

SENKO Russia

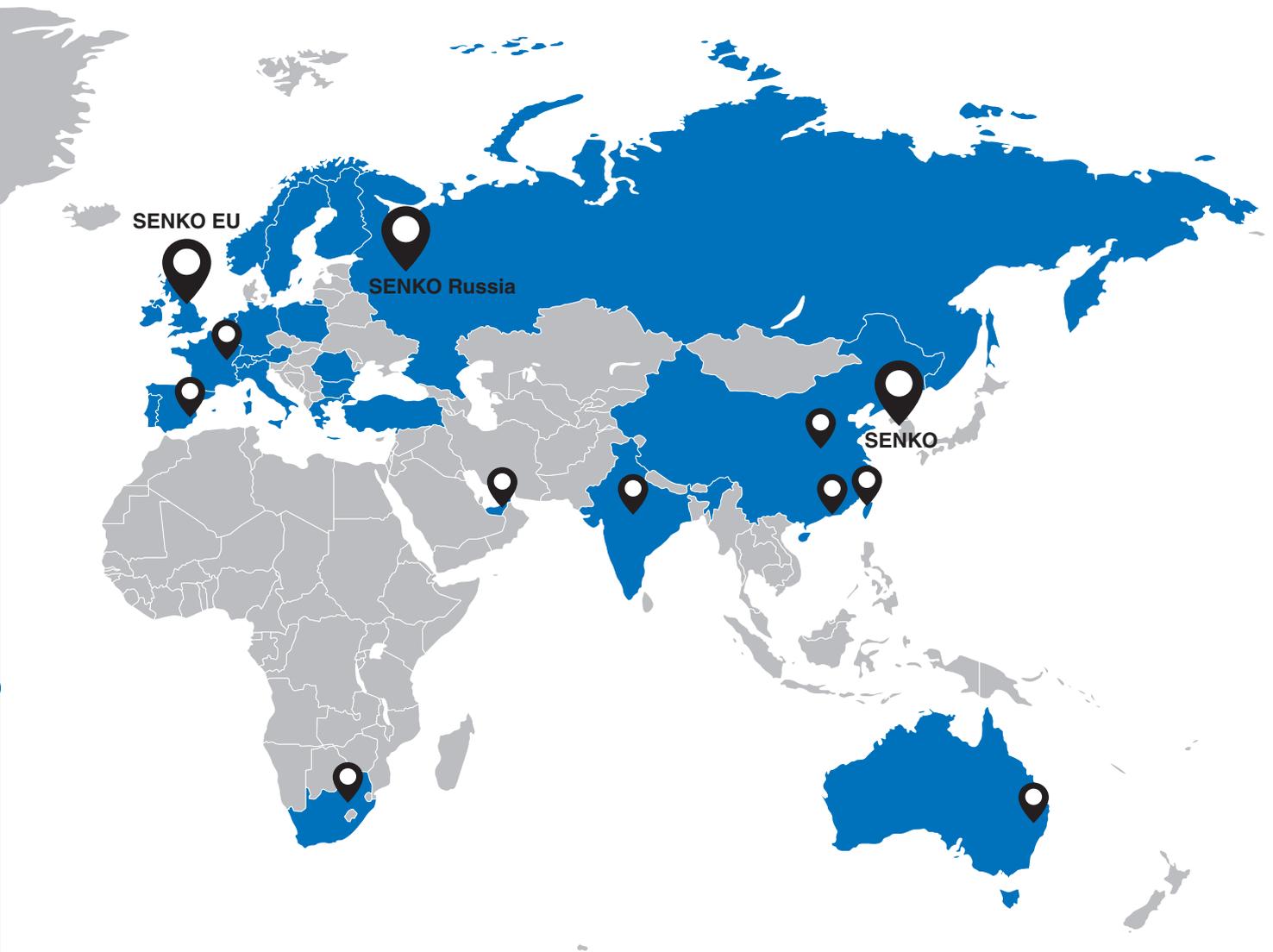
Дмитрий Бурнашов

Phone: +7 925 405 61 81

E-mail: senkold@mail.ru

*Contact your SENKO representative for complete product information.

Worldwide Distributors



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O₂ / CO / H₂S / H₂ / SO₂ / NH₃ / NO₂

Description

SGT is a single disposable detector. (SGT-P is replaceable) It operates continuously for two years even without the replacement of the battery or gas sensor in order to protect workers from oxygen deficiency or toxic gases. It measures a gas continuously and displays its concentration and raises an alarm when a risk occurs.

Key Feature

- Disposable type(no sensor or battery change)
- Operates continuously for two years
- Excellent water / dust proof structure
- Automatic checking of the sensor trouble
- High performance audible and vibrating alarm
- Automatic logging of 30EA events
- Easy configuration and data management through IR Link
- Easy calibration through Docking Station



Specification

| | |
|-----------------------------------|---|
| Model | SGT |
| Sensor Type | Electrochemical |
| Measurement | Diffusion type |
| Display | LCD display |
| Audible | 90dB at 10cm |
| Warning Lamp | Red Flashing LEDs (Light-Emitting Diode) |
| Vibration | Vibration Alarm |
| Battery | Manufacture: Vitzrocell P/N: SB-AA02(P) / System: Lithium Primary Battery Nominal voltage: 3.6V / Nominal capacity: 1.2Ah |
| Temperature & Humidity | -40°C ~ +50°C(for Toxic) / -35°C ~ +50°C(for O ₂) 5%~95% RH (Non-condensing) |
| Case | Rubber Enclosure |
| Accessories | Calibration Cap, Manual, Calibration and Quality report |
| Option | External Sampling Pump (SP-Pump101), SENKO-IR Link, Docking Station |
| Size & Weight | Size: 54(W) × 91(H) × 32(D)mm Weight: 93g(Toxic), 104g(O ₂) (Battery, clip included) |
| Operating Life | 24 months, based on 2 minutes of alarm per day |
| Event Log | Recent 30 alarms |
| Approval | ATEX II 1 G Ex ia IIC T4 Ga CSA Class 1, Zone 0, ex ia IIC T4 Ga IECEX Ex ia IIC T4 Ga INMETRO Ex ia IIC T4 Ga |

Sensor specification

| Gas | Measuring range | Low Alarm | High Alarm |
|------------------|-----------------|-----------|------------|
| O ₂ | 0~30%Vol | 19%Vol | 23%Vol |
| CO | 0~500ppm | 30ppm | 60ppm |
| H ₂ S | 0~100ppm | 10ppm | 15ppm |
| H ₂ | 0~1000ppm | 100ppm | 500ppm |
| SO ₂ | 0~50ppm | 2ppm | 5ppm |
| NH ₃ | 0~100ppm | 25ppm | 35ppm |
| NO ₂ | 0~20ppm | 3ppm | 5ppm |

Accessories



IR Link

User can change alarm set points and upload firmware updates and download event logs and perform calibration.

Sampling pump (SP-Pump101)



Extension Probe 5M/ 10M



SGT Docking Station



SGT-P

Replaceable Single-Gas Detector

SENKO



O₂/ CO/ H₂S/ H₂/ SO₂/ NH₃/ NO₂

Description

SGT-P is a single replaceable gas detector designed to detect oxygen deficiency and presence of toxic gas in the ambient environment. SGT-P is the replaceable type of a gas sensor and battery. When activated, SGT-P continuously monitors ambient air for the presence of a specific gas and alerts the user to potentially unsafe exposure with LED, vibrating, and audible alarms in the event that gas concentration exceeds alarm set points.

Key Feature

- Sensor and Battery Replacement
- Power on / off available
- Configuration via exclusive IR Link

Specification

| Model | SGT-P |
|------------------------|--|
| Sensor Type | Electrochemical |
| Measurement | Diffusion type |
| Display | LCD display |
| Audible | 90dB at 10cm |
| Warning Lamp | Red Flashing LEDs (Light-Emitting Diode) |
| Vibration | Vibration Alarm |
| Battery | Manufacture: Vitzrocell / P/N: SB-AA02(P) / System: Lithium Primary Battery Nominal voltage: 3.6V / Nominal capacity: 1.2Ah |
| Temperature & Humidity | -40°C ~ +50°C(for Toxic) / -35°C ~ +50°C(for O ₂) 5% ~ 95% RH (non-condensing) |
| Case | Rubber Enclosure |
| Accessories | Calibration Cap, Manual, Test Report |
| Option | External Sampling Pump (SP-Pump101), SENKO-IR Link, Docking Station |
| Size & Weight | Size: 54mm(W) x 91mm(H) x 32mm(D) Weight: 93g(Toxic), 104g(O ₂) (Battery, clip included) |
| Event Log | Recent 30 alarms |
| Approval | ATEX II 1 G Ex ia IIC T4 Ga IECEX Ex ia IIC T4 Ga |

Sensor specification

| Gas | Measuring range | Low Alarm | High Alarm |
|------------------|-----------------|-----------|------------|
| O ₂ | 0~30%Vol | 19%Vol | 23%Vol |
| CO | 0~500ppm | 30ppm | 60ppm |
| H ₂ S | 0~100ppm | 10ppm | 15ppm |
| H ₂ | 0~1000ppm | 100ppm | 500ppm |
| SO ₂ | 0~50ppm | 2ppm | 5ppm |
| NH ₃ | 0~100ppm | 25ppm | 35ppm |
| NO ₂ | 0~20ppm | 3ppm | 5ppm |

Accessories



IR Link

User can change alarm set points and upload firmware updates and download event logs and perform calibration.

Sampling pump (SP-Pump101)



Extension Probe 5M/ 10M



SGT Docking Station



SP2nd

Replaceable Single-Gas Detector

SENKO



O₂/ CO/ H₂S/ H₂/ SO₂/ NH₃

Description

SP2nd is an economical gas detector to protect workers from the disasters caused by the oxygen deficiency or toxic gas poisoning. It measures one gas continuously and displays its concentration and raises alarm when the risk occurs.

Key Feature

- Sensor and Battery Replacement
- Rubber material case for the shock protection
- The excellent water proof/dust proof structure
- High performance of audible, visual, vibrational alarm
- Setting 1st, 2nd alarm
- Automatic checking of the sensor trouble
- Event logs (20 ea)

Specification

| | |
|-------------------------------|---|
| Model | SP2nd |
| Sensor Type | Electrochemical |
| Measurement | Diffusion type |
| Accuracy | ±3%/Full scale |
| Parameter Control | Front 2 switch(calibration, maintenance, alarm setting) |
| Operation mode display | Visual : Digital LCD display, Trouble RedLED Audible : buzzer(90dB @ 10cm) |
| Display | LCD Display(3-digit) |
| Alarm display | Visual : alarm & status icon, Trouble RedLED Audible : buzzer |
| Alarm level set | Programmable within detection range |
| Data Log | Event Log : 20 Data |
| Mounting type | Belt Clip |
| Program set mode | Alarm value(1,2 alarm) time Set Calibration density setting |
| Operating temperature | -20°C ~ 50°C |
| Operating humidity | 5% to 95% RH(Non-condensing) |
| Operating power | CR2 Lithium Battery 3V |
| Battery life time | CR2 Battery(3.0V) : 1.2 year, when used 8 hours a day |
| Material | PC / TPE |
| LCD size | 27(W) × 17.5(H)mm |
| Dimensions | 54(W) × 91(H) × 42(D)mm |
| Weight | O ₂ : 120g / Toxic: 100g (including Battery) |
| Approval | INMETRO Ex ia IIC T4 Ga KGS Ex ia IIC T4 Ga IP67 |

Sensor specification

| Gas | Measuring range | Low Alarm | High Alarm |
|------------------|-----------------|-----------|------------|
| O ₂ | 0~30%Vol | 19%Vol | 23%Vol |
| CO | 0~500ppm | 30ppm | 60ppm |
| SO ₂ | 0~20ppm | 2ppm | 5ppm |
| H ₂ | 0~1000ppm | 100ppm | 500ppm |
| H ₂ S | 0~100ppm | 10ppm | 15ppm |
| NH ₃ | 0~100ppm | 25ppm | 35ppm |

Accessories

Sampling pump
(SP-Pump101)



Extension Probe
5M/ 10M





Description

MGT is an united gas detector measuring four(4) major gases, which cause the most of the industrial accidents, to protect workers from the disasters caused by the Oxygen deficiency, Toxic gas poisoning and gas explosion. It measures continuously four(4) gases (O₂, CO, H₂S and Combustible Gas(CH₄)) and displays their concentrations and raises an alarm(visual, vibrating, and audible) when the risk occurs. It features the dual sensor of CO and H₂S.

Key Feature

- Small size & Light weight
- Rechargeable battery
- 30EA of Bump tests/ Events/ Cal.
- Simultaneously detect 4 different gases
- 25 hours use by one charge for 4-6 hours (P-type)
- 60 days use by one charge for 4-6 hours (N-type)
- Configuration via exclusive IR Link
- Easy check & calibration via Docking Station
- Intrinsic Safety

Specification

| Model | MGT |
|---------------------------|---|
| Self-test | Full function self-test upon activation Sensors, battery and circuitry - continuous |
| Detecting Method | Diffusion |
| Display | LCD Display (back-light) |
| Alarm | LED flashing, Sound, Vibration |
| Sensor | O ₂ , CO and H ₂ S: Electrochemical Combustible(LEL): IR or Pellistor |
| IP | 67 |
| Temperature | -20°C ~ +50°C |
| Humidity | 5~95% RH(Non-condensing) |
| Batteryw | Rechargeable Li-ion power supply unit (2000mAh) |
| Charge Time | 4-6 hours |
| Battery Life | IR: 60 days continuous / Pellistor: 25 hours continuous |
| Low Battery Alarm | 20 minutes / 10 minutes / 5 minutes expired: 5 long beeps/flashes and then Off is displayed |
| Warranty | 2 years |
| Weight | 240g |
| Size | 61(w) × 114(h) × 43(d)mm |
| Optional Accessory | MGT-IR Link, Docking Station, SP-Pump 101 |
| Approval | ATEX II 1 G Ex ia IIC T4 Ga CSA Class 1, Zone 0, ex ia IIC T4 Ga IECEx Ex ia IIC T4 Ga |

Sensor specification

| GAS | Measuring range | Low Alarm | High Alarm |
|------------------|-----------------|-----------|------------|
| O ₂ | 0~30%Vol | 19%Vol | 23%Vol |
| CO | 0~500ppm | 30ppm | 60ppm |
| H ₂ S | 0~100ppm | 10ppm | 30ppm |
| CH ₄ | 0~100%LEL | 10%LEL | 30%LEL |

Accessories



IR Link

User can change alarm set points and upload firmware updates and download event logs and perform calibration.



Vehicle Power Adaptor



Sampling pump (SP-Pump101)



Extension Probe 5M/ 10M

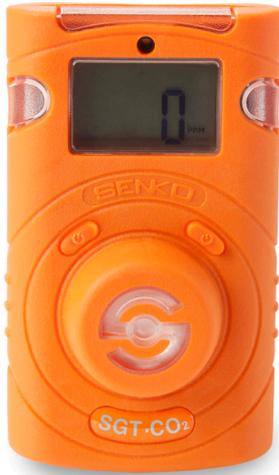


MGT Docking Station Version II

SGT-N

Carbon Dioxide Gas Detector

SENKO



*Design can be changed

Description

SGT-N is a portable Single Gas detector used for detecting Carbon Dioxide.

Key Feature

- Infrared CO2 sensor
- Rechargeable battery

Specification

| | |
|--------------------------|---|
| Model | SGT-N (CO2) |
| Sensor Type | IR |
| Measurement | Diffusion type |
| Display | LCD display |
| Audible | 90dB at 10cm |
| Warning Lamp | Red Flashing LEDs |
| Vibration | Vibration Alarm |
| Battery | Rechargeable Li-ion(polymer) power supply unit (500mAh) |
| Temperature | -20°C ~ +50°C |
| Humidity | 5%~95% RH (Non-condensing) |
| Case | Rubber Enclosure |
| Accessories | Calibration Cap, Charge Cable(USB C-Type) |
| Option | - |
| Size & Weight | Size: 30(W) x 50(H) x 35(D)mm , Weight: 120g |
| Operating Life | 7 day(Expected) |
| Event Log | Recent 60 alarms(Expected) |
| Approval | EMC directive(2004/108/EC) |

Sensor specification

| Gas | Measuring range | Low Alarm | High Alarm |
|-----|-----------------|-----------|------------|
| CO2 | 0~5.0%vol | 0.2%vol | 0.4%vol |

New
Product
Coming Soon

MGT Pump type

Multi Gas Detector with built-in Pump

SENKO



*Design can be changed

Description

MGT Pump type is a portable multi gas detector used for detecting 4 gases, O₂, CO, H₂S, Combustible gas.

Key Feature

- Sampling pump built in structure
- Multi 4 gas detector

Specification

| | |
|---------------------------|---|
| Model | MGT Pump type |
| Self-test | Full function self-test upon activation Sensors, battery, Pump and circuitry - continuous |
| Detecting Method | Pump |
| Display | LCD Display (back-light) |
| Alarm | LED flashing, Sound, Vibration |
| Sensor | O ₂ , CO and H ₂ S: Electrochemical Combustible(LEL): IR or Pellistor CO ₂ : IR VOCs: PID |
| IP | 67 |
| Temperature | -20°C ~ +50°C |
| Humidity | 5~95% RH(Non-condensing) |
| Batteryw | Rechargeable Li-ion power supply unit (4,000mAh) |
| Charge Time | 4-6 hours |
| Battery Life | IR: 5 days continuous / Pellistor: 30 hours continuous(Expected) |
| Low Battery Alarm | 20 minutes / 10 minutes / 5 minutes expired: 5 long beeps/flashes and then Off is displayed |
| Warranty | 2 years |
| Weight | 400g(Expected) |
| Size | 77(w) x 147(h) x 54(d)mm |
| Optional Accessory | IR Link, Docking Station(Expected) |
| Approval | IECEX EX ia IIC T4 Ga or EX da ia IIC T4 Ga(Expected) |

Sensor specification

| GAS | Measuring range | Low Alarm | High Alarm |
|------------------|-----------------|-----------|------------|
| O ₂ | 0~30%Vol | 19%Vol | 23%Vol |
| CO | 0~500ppm | 30ppm | 60ppm |
| H ₂ S | 0~100ppm | 10ppm | 30ppm |
| CH ₄ | 0~100%LEL | 10%LEL | 30%LEL |
| CO ₂ | 0~5.0%vol | - | - |
| VOCs | 0~6,000ppm | - | - |
| SO ₂ | 0~20ppm | - | - |
| NH ₃ | 0~100ppm | - | - |
| NO ₂ | 0~20ppm | - | - |



**New
Product
Coming Soon**

SP-Pump101

Automatic Sampling Pump

SENKO



SGT / SGT-P / MGT / SP2nd

Description

Sampling pump is designed to be used by connecting to SGT, SGT-P, MGT and SP2nd model. This can be used to check if there is gas leakage when measure the gas underground manhole.

Key Feature

- Simple structure to install locking
- Excellently durable industrial pump installed
- Automatic checking of chocking

Specification

| Model | SP-Pump101 |
|-----------------------|--|
| Flow rate | Minimum 500cc/min |
| Alarm display | Low flow alarm / Low battery alarm (Red LED) |
| Operating temperature | -20°C ~ 50°C |
| Operating humidity | 5% to 99% RH(Non-condensing) |
| Battery power | 1.5V AA size Alkaline battery 1EA |
| Battery life time | More than 10 hours |
| Dimensions | 30(W) × 254(H) × 47(D)mm |
| Weight | 260g (including Battery) |



Accessories

Extension Probe
5M/ 10M



SP secure

Portable Gas Leak Detector

SENKO



Description

SP secure is designed to be suitable for leak detection of any gas piping and valves by equipping a built-in sampling pump. Since the measured gas concentration is displayed in digital number, accurate measurement is possible.

Key Feature

- Sampling pump built in structure
- The digital concentration display
- Detector for the gas leakage
- Both rechargeable battery and alkaline battery are compatible
- Adopt the sensor which detect the low concentrated

Specification

| Model | SP Secure | | |
|-------------------------|---|------------------|----------------------|
| Measuring gas | LNG/LPG, Combustible Gas | H2 | |
| Measuring method | Catalytic | Catalytic | Electrochemical cell |
| Measuring range | 0~100%LEL | 0~100%LEL | 0~1000ppm |
| Sensor life time | > 3 years | > 3 years | > 2 years |
| Response time | <10sec/90% scale | <10sec/90% scale | <75sec/90% scale |
| Resolution | 1%LEL | 1%LEL | Within 5ppm |
| Measuring type | Auto Sampling type | | |
| Operation time | About 12 hours | | |
| Accuracy | ±3%/Full scale | | |
| Parameter Control | Right Side switch(calibration, maintenance, alarm setting) | | |
| Operation mode display | Visual : alarm & status icon, Trouble RedLED Audible : buzzer(90dB @ 10cm) | | |
| Measuring value display | LCD Display(3-digit) | | |
| Alarm display | Visual : alarm & status icon Audible : buzzer | | |
| Alarm level set | Programmable within detection range | | |
| Sampling method | Internal sampling pump | | |
| Flow rate | 0.5 liter/min | | |
| Program set mode | Alarm value(1,2 alarm) | | |
| Operating temperature | -20°C ~ 50°C | | |
| Operating humidity | 10 to 95% RH(Non-condensing) | | |
| Battery power | Rechargeable NI-MH or AA Alkaline battery 3ea | | |
| Battery life time | More than 12 hours | | |
| Material | Poly carbonate | | |
| LCD size | 32(W) × 40(H)mm | | |
| Dimensions | 55(W) × 240(H) × 31(D)mm | | |
| Weight | 260g (Battery Including) | | |
| Approval | KGS Ex d ia IIB T3 | | |

Accessories

Extension Probe
5M/ 10M



SGT Docking Station

SENKO

Description

Docking station maximizes the performance of SGT device. It calibrates and does bump test up to four SGT device simultaneously, helping to reduce time. Through Bump test, Docking station tests the gas sensor response and alarm of the devices. In addition, it automatically upgrades the firmware of the devices when the devices are connected to Docking station. Event logs are saved into the USB memory and provide analyses for users. The configuration can be set by connecting Docking station with IR link.



Key Feature

- Calibration, Bump Test
- Displays status on Power LED and Unit LED
- Saves the status and results of Docking station and SGT
- Upgrades Docking and SGT Firmware
- Saves the log data of Docking station and SGT
- Supports user options using a PC program (IR Link/USB)

Specification

| | |
|--------------------------------------|--|
| Model | SGT Docking Station |
| Size | 47 × 41 × 22cm (18.50 × 16.14 × 8.66 in.) |
| Weight (Without gas cylinder) | 8.2kg |
| Operating Temperature | 41 to +104°F (5 to +40°C) |
| Warrenty | Full 2 years |
| Battery Type | Rechargeable Lithium Ion |
| Battery Life | 1000 Bump Tests |
| LEDs | 5 red/green/orange LEDs(1 for each unit, 1 for power) |
| Memory | USB 8GB Standard |
| Log Capacity | Approximately Up to 10 million tests (8GB,removable USB memory) |
| Tests Performed | Bump Test and Calibration |
| Information Stored | Bump/Cal Logs, Individual Monitor Event Logs, Firmware and Unit Configurations |
| Gases Available | CO, H2S and O2 |
| Unit Compatibility | Works with SGT |
| Calibration Gas | Compatible with 58L cylinders |
| Charging Adaptor | 12V, 3A |



Accessories

IR Link





Description

Bump test and calibration are the key features to ensure the safety of devices and users. MGT docking station version II provides bump testing, event management and calibration from a simple to use multi-unit station. It also maintains the all important event logs that demonstrate users are working within company requirements.

Key Feature

- Zero and Span Calibration, Bump Test Function
- Indicate the current status of operation by the Power LED and Unit LED color
- Gas Ventilation system to remove a residual gas
- Save the log events after calibration and bump test
- Enable users to adjust the setting points of Docking station and MGT via IR Link or USB
- Rechargeable battery or power
- Holds up to 4 devices at once

Specification

| | |
|--------------------------------------|--|
| Model | MGT docking station (Version II) |
| Size | 52.5 x 43.7 x 21.3cm(20.66" x 17.20" x 8.40") |
| Weight (Without gas cylinder) | 11.0kg |
| Operating Temperature | 41 to +104°F (5 to +40°C) |
| Warrenty | Full 2 years |
| Battery Type | Rechargeable Lithium Ion |
| Battery Life | 1000 Bump Tests |
| LEDs | 6 Blue LEDs for each unit(unit x 4), 3-color LED for power, Switch Back Light LED(Yellow, Green) |
| Memory | USB 8GB Standard |
| Log Capacity | Approximately Up to 5 million tests (8GB, removable USB memory) |
| Tests Performed | Bump Test and Calibration |
| Information Stored | Bump/Cal Logs, Individual Monitor Event Logs, Firmware and Unit Configurations |
| Gases Available | LEL, CO, H2S and O2 |
| Unit Compatibility | Works with MGT(N, P) |
| Calibration Gas | Compatible with 58L & 116L cylinders |
| Interface | Ethernet RJ-45(TCP/IP), 10Mb/s |
| Charging Adaptor | 12V, 3A |



Accessories

IR Link



SI-100

Fixed Gas Detector

SENKO



Description

SI-100 is a fixed gas detector installed in a place where potential gas hazard exists to measure oxygen, toxic gas and combustible gas. It shows not only the concentration of gas but also diagnostic result of the unit itself through the LCD display and can be connected to the controller with a standard 4-20mA analog output communication or RS-485 digital communication.

Key Feature

- Various sensors can be applied
- Easy operation with a magnetic bar
- Large digital LCD installed with a blue backlight
- Explosive proof structure
- Water/dust proof structure
- Automatic calibration function
- Long-distance transmission by 4-20mA output



Specification

| Model | SI-100 | | | |
|-------------------------|--|------------------|----------------------|-----------------|
| Measuring gas | Combustible Gas | | Toxic Gas | Oxygen |
| Measuring method | Catalytic | IR | Electrochemical cell | Galvanic |
| Measuring range | 0~100%LEL | 0~100%LEL | ref. page 19 | 0~30%VOL |
| Sensor life time | > 5 years | > 2 years | > 2 years | < 2 years |
| Response time | <15sec/90% scale | <30sec/90% scale | ref. page 19 | <15sec/90%scale |
| Resolution | 1%LEL | 1%LEL | ref. page 19 | 0.1%VOL |
| Measuring type | Diffusion Type | | | |
| Accuracy | ±3%/Full scale | | | |
| Parameter Control | Front 3 magnetic switch(calibration, maintenance, alarm setting) | | | |
| Operation mode display | Visual: LCD alarm display, LCD Backlight, 3 Indicator LED | | | |
| Measuring value display | Digital LCD Display(4-digit) | | | |
| Alarm display | Visual : LCD alarm display, LCD Backlight, Indicator LED | | | |
| Alarm output signal | Relay contact(Max 30Vdc, 5A) when Alarm occurred | | | |
| Alarm level set | Programmable within detection range | | | |
| Output signal | Analog : 4-20mA, Digital : RS-485(Optional) | | | |
| PC interace | RS_485(Optional) | | | |
| Cable/Distance | (4-20mA and Power: CVVSB 1.5sq or AWG 20 / 2,500m max), (RS-485 data communication cable: UL2919 RS-485 1pair / 1,200m max) | | | |
| Conduit connection | NPT 3/4" (2way) | | | |
| Mounting type | Wall mount | | | |
| Program set mode | Alarm value(1,2 alarm), Alarm time(instant@delay) 1~30min, Alarm dead band, output on/off | | | |
| Operating temperature | -20°C ~ +55°C | | | |
| Operating humidity | 5% to 95% RH(Non-condensing) | | | |
| Operating power | 9~34Vdc 600mA | | | |
| Material | Aluminium, Stainless steel(STS304) | | | |
| LCD size | 55(W) × 30(H) mm | | | |
| Dimensions | 150(W) × 165(H) × 110(D) mm | | | |
| Weight | Standard type: 1.9kg | | | |
| Approval | ATEX Ex d IIC T5 Gb IP65 | | | |
| | CSA (Under certification) | | | |
| | IECEX Ex d IIC T5 IP65 | | | |
| | INMETRO Ex d IIC T5 Gb IP65 | | | |

SI-100C

Fixed Gas Detector

SENKO



Description

SI-100C is a fixed gas detector installing in a place where potential gas hazard exists to measure oxygen, toxic gas and combustible gas without LCD display. It can be connected to the controller with a standard 4-20mA analog outputs.

Key Feature

- Explosive proof structure
- Water/dust proof structure
- 4-20mA Analog outputs
- Built-in Calibration Mode
- 2 wires for toxic gases / 3 wires for LEL

Specification

| Model | SI-100C | | | |
|------------------------|---|------------------|---|-----------------|
| Measuring gas | Combustible Gas | | Toxic Gas | Oxygen |
| Measuring method | Catalytic | IR | Electrochemical cell | Galvanic |
| Measuring range | 0~100%LEL | 0~100%LEL | ref. page 19 | 0~30%VOL |
| Sensor life time | > 5 years | > 2 years | > 2 years | < 2 years |
| Response time | <15sec/90% scale | <30sec/90% scale | ref. page 19 | <15sec/90%scale |
| Resolution | 1%LEL | 1%LEL | ref. page 19 | 0.1%VOL |
| Cable/Distance | Signal cable: 3-wire > CVVSB 1.5sq or AWG20 | | Power + Signal cable: 2-wire > CVVSB 1.5sq or AWG20 | |
| Measuring type | Diffusion Type | | | |
| Accuracy | ±3%/Full scale | | | |
| Parameter | Control Switch(calibration), Admin Console(maintenance, OPTION) | | | |
| Operation mode display | 2-LED(Operating and Zero Cal, Span Cal. LED) | | | |
| Output signal | 4-20mA DC(3wire for combustible gas, 2wire for other gas) | | | |
| Conduit connection | NPT 3/4" (2way) | | | |
| Mounting type | Wall mount | | | |
| Setting | 1 Switch Interface(Calibration), Console set available(Option) | | | |
| Remote Set | via Console (Zero Calibration, Span Calibration, Calibration Gas Concentration Set, Factory default,4-20mA Calibration, Range Set, Data Logging) | | | |
| Operating temperature | -20°C ~ +55°C | | | |
| Operating humidity | 5% to 95% RH(Non-condensing) | | | |
| Operating power | 9~34Vdc 600mA | | | |
| Material | Aluminium, Stainless steel(STS304) | | | |
| Dimensions | 102(W) × 137(H) × 87(D)mm | | | |
| Weight | 1.0kg | | | |
| Option | Console | | | |
| Approval | ATEX Ex d IIC T5 Gb IP65 CSA (Under certification) IECEX Ex d IIC T5 IP65 INMETRO Ex d IIC T5 Gb IP65 | | | |





SI-100 Sensor list

| Gas | Sensor | Range | A1 | A2 | Resolution | |
|-------------------|--------|-----------------|-----------|----------|------------|-------------|
| Oxygen | O2 | Electrochemical | 0~30%Vol | 19.0%vol | 23.0%vol | 0.1%vol |
| Carbon Monoxide | CO | Electrochemical | 0~500ppm | 30ppm | 60ppm | 1ppm |
| Sulfur Dioxide | SO2 | Electrochemical | 0~20ppm | 2ppm | 5ppm | 0.1ppm |
| Hydrogen | H2 | Catalytic | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Hydrogen | H2 | Electrochemical | 0~1000ppm | 100ppm | 500ppm | within 5ppm |
| Hydrogen Sulfide | H2S | Electrochemical | 0~100ppm | 10ppm | 15ppm | 1ppm |
| Combustible | - | Catalytic | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Combustible | - | IR | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Ammonia | NH3 | Electrochemical | 0~100ppm | 25ppm | 35ppm | 1ppm |
| Acetylene | C2H2 | Catalytic | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Ethanol | C2H6O | Catalytic | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Toluene | C7H8 | IR | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Toluene | C7H8 | Catalytic | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Methane | CH4 | IR | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Methane | CH4 | Catalytic | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Chlorine | Cl2 | Electrochemical | 0~5ppm | 0.5ppm | 1.0ppm | 0.1ppm |
| Chlorine | Cl2 | Electrochemical | 0~20ppm | 0.5ppm | 1.0ppm | 0.1ppm |
| Carbon Dioxide | CO2 | IR | 0~2000ppm | 1000ppm | 1500ppm | 3ppm |
| Carbon Dioxide | CO2 | IR | 0~5000ppm | 3000ppm | 5000ppm | 8ppm |
| Carbon Dioxide | CO2 | IR | 0~5%Vol | 0.5%vol | 3%vol | 0.1%vol |
| Hydrogen Chloride | HCl | Electrochemical | 0~10ppm | 1ppm | 2ppm | 0.1ppm |
| VOC | VOC | PID | 0~1000ppm | 50ppm | 100ppm | within 3ppm |
| Xylene | C8H10 | IR | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Hydrogen peroxide | H2O2 | Electrochemical | 0~10ppm | 1ppm | 2ppm | 0.1ppm |
| Nitrogen Dioxide | NO2 | Electrochemical | 0~20ppm | 3ppm | 5ppm | 0.1ppm |
| Ethylene oxide | C2H4O | Electrochemical | 0~30ppm | 1ppm | 2ppm | 0.1ppm |
| Ethylene | C2H4 | Catalytic | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |
| Nitrogen Monoxide | NO | Electrochemical | 0~100ppm | 25ppm | 50ppm | 1ppm |
| Hydrogen fluoride | HF | Electrochemical | 0~5ppm | 0.5ppm | 1ppm | 0.1ppm |
| Isobutane | C4H10 | Catalytic | 0~100%LEL | 15%LEL | 50%LEL | 1%LEL |



SI-100C Sensor list

| Gas | Sensor | Range | A1 | A2 | Resolution |
|------------------|--------|-----------------|-----------|----|------------|
| Oxygen | O2 | Electrochemical | 0~30%vol | | |
| Carbon Monoxide | CO | Electrochemical | 0~500ppm | | |
| Hydrogen | H2 | Catalytic | 0~100%LEL | | |
| Hydrogen | H2 | Electrochemical | 0~1000ppm | | |
| Hydrogen sulfide | H2S | Electrochemical | 0~200ppm | | |
| Combustible | - | Catalytic | 0~100%LEL | | |
| Ethylene Oxide | C2H4O | IR | 0~100%LEL | | |
| Methanol | CH3OH | Catalytic | 0~100%LEL | | |
| Ammonia | NH3 | Electrochemical | 0~100ppm | | |

Refer to the alarm set points in the SI-100 Specification

SI-H100

Sampling type fixed-Gas Detector

SENKO



Description

SI-H100 measures sample gas by sensor cartridge in the case upon suction remotely on a real time basis constantly. The monitor points up to 100 feet (30meters) away and shows alarm of dangerous concentration, fault situation, and so on, upon attaching on the wall. SI-H100 assists to prevent or control a variety of gas related accidents including toxic, flammable gases in a plant providing reliable sensor technology.

Key Feature

- Simple to install, easy to use the product
- Extractive pump system which has 2years life time (Sampling up to 30M)
- Smart sensor cartridge with on board
- Large bright graphic LCD based on Intuitive icon with various expressions
- 3 built in relays for Alarm 1st , 2nd and Fault
- Ethernet (PoE) communication
- Optional Pyrolyzer module
- 4-20mA analog output with event reporting and fault
- Modbus/TCP Ethernet can be easily connected to all control and alarm systems ports
- Update the latest version of firmware available via the web
- RS-485, TCP Ethernet to connect alarm system and communication
- Detects gas which is parts-per-billion(ppb) levels

Specification

| | |
|-------------------------------------|--|
| Model | SI-H100 |
| Size | 124mm(H) X 65mm(W) X 155mm(D) |
| Weight | 2Kg |
| Operating voltage | DC : 24V ± 10% PoE : 36V~57V (Typical : 48V) |
| Flow rate | 500mL/min (MAX 900) |
| Power consumption | Approximately 5.0W |
| Measurement display | Graphic LCD (160 X 100), gas concentration, flow rate, alarm, rear light, device abnormality |
| Alarm | 90dB at 10cm |
| Relay | Primary Alarm, Secondary Alarm, Fault Alarm |
| Output signal | Analog, 4-20mA |
| Digital communication | RS-485, TCP Ethernet |
| Sampling distance | Length of input gas tube: up to 30m (FEP tube) Length of exhaust gas tube: up to 30m (FEP tube) |
| input/output tube | 1/4" Teflon tube |
| Operating temperature | 0°C ~40°C |
| Certification | CE |
| Control/Set | 4 Button & RS485 & Ethernet |
| Warranty of the device | 2 years |
| Warranty of sensor cartridge | 1 year |
| Remote interface | Ethernet, RS-485 |
| Wiring | 4 to 20mA / DC power / Relay: up to 14 AWG |
| ETC | Update the latest version of firmware available via the web |

Accessories

Sampling bracket



SI-100D

Gas Leak Detector



Description

SI-100D is a combustible (LNG/LPG) gas leak detector that consists of a sensing unit and receiver. This is used to detect gas leaks in the pipe or valve. SI-100D can be used with present any indicators and PLC using analog output (4-20mA). SI-100D is a low-priced compact and light entry-level product.

Key Feature

- Explosion proof structure
- Long distance communication with 4~20mA analog output
- Convenient installation
- Simple structure, reasonable price

Specification

| | |
|------------------------------|--|
| Model | SI-100D |
| Measuring range | LNG/LPG(methane/propane) |
| Measuring type | Diffusion type |
| Measuring method | Catalytic |
| Measuring range | 0~100%LEL |
| Sensor life time | > 2 years |
| Response time | <10sec/90%scale |
| Accuracy | ±3%/Full scale |
| Output signal | 4-20mA DC |
| Cable/Distance | CVVSB 1.5sq or AWG20 × 3wire (Power + Signal) / 2,500m max |
| Conduit connection | NPT 1/2" |
| Mounting type | Wall mount |
| Operating temperature | -20°C ~ +50°C |
| Operating humidity | 0%~95% RH(Non-condensing) |
| Operating power | 24V DC +/- 20%, <90mAh |
| Material | Aluminium |
| Dimensions | 93(W) × 106(H) × 89(D)mm |
| Weight | 0.6kg |
| Approval | KCS Ex d II B T4/14-KB2BO-0422 |



SI-100IS

Receiver For Fixed Gas Detector (Bar-Graph type)



Description

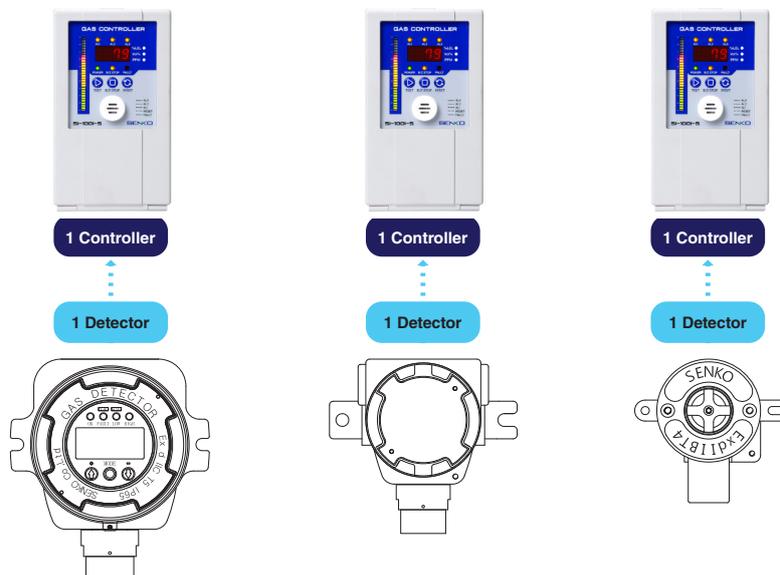
SI-100IS is a single control panel and an alarm for fixed gas detector and fixed gas leak detector composed of sensing part and receiver. It is designed as DIN type and so can be installed as wall mount panel. Performing calibration is processed from a detector and can also perform from the SI-100IS itself.

Key Feature

- Sophisticated design and simple structure
- Display using the Bar-Graph depend on alarm steps. (1st, 2nd, 3rd Alarm)
- 3 Colored LED and F.N.D gas concentration display
- Easy zero calibration and built-in calibration mode
- Self test mode
- Display the number of calibrations
- Built-in light bar (Option)

Specification

| Model | SI-100IS |
|-------------------------|--|
| Measuring range | Programmable within detection range |
| Display | 30-Bar graph, 3 Alarm LED, 3 Status LED, 7-Segment(4Digit) |
| Sound | buzzer(Alarm1,2,3, Reset, Fault), 80dB |
| Operation mode display | 3 Alarm LED, 3 Status LED |
| Measuring value display | 30-Bar graph, 7-Segment(4Digit) |
| Alarm level set | Alarm1,2,3 Programmable within detection range |
| Alarm signal output | Alarm 1,2,3 - 12V.DC, Dry contact (com, no, nc), comm 12V.DC, Dry contact(com, no, nc) |
| Input Signal | 4/20mA signal |
| Cable/Distance | CVVSB 1.5sq or AWG20 × 3wire (Power + Signal) / 2,500m max |
| Mounting type | Wall mount |
| Program set mode | ALARM1,2,3, Range, 4-20mA Calibration etc. |
| Operating temperature | -20°C ~ +50°C |
| Operating humidity | 5%~95%RH(Non-condensing) |
| Operating power | 100~240V INPUT AC (50/60Hz), <0.24A |
| Material | ABS AF308 |
| Dimensions | 120(W) × 200(H) × 51(D)mm |
| Weight | 0.5kg |



SI-100IM

Multi Channel Gas Monitor for Fixed Gas Detectors



Description

SI-100IM consists of a Main Alarm unit and Alarm display units. From the one main unit, the alarm display unit can be constructed from 1 to 36 units. SI-100IM is designed as DIN type, so the device can be manufactured in the wall mount panel type, Standalone type, or 19"Rack type according to a user's preference.

Key Feature

- Sophisticated design and simple structure
- 4Digit F.N.D Digital Display
- 40 LED Bar Graph (% , PPM, LEL unit display)
- Fault, 1st, 2nd, 3rd Alarm Icon
- 40 Red Arrow LED Graph(↗) Display
- Easy zero and standard gas calibration
- Self Diagnosis mode
- Display the frequency of calibration
- Back-up Battery installed
- Data Recovery function



Specification

| Model | Main Alarm Unit | Alarm Display Unit |
|---------------------------|---|--|
| Model No | SI-100IM | SI-100IA |
| Measuring Range | 0-30V FND Digital Display | 0.000 to 9999 Digital User Setting |
| Measuring Display | 4Digit FND Digital Display 18 LED Bar Graph, Battery, B/Z Stop (V Unit Display) | 4Digit F.N.D Digital Display 40 LED Bar Graph (% , PPM, LEL Unit Display) |
| Alarm Display | Fault, 1st, 2nd, 3rd Alarm ICON AU01~AU10 (Alarm Unit, indicating in order) | Fault, 1st, 2nd, 3rd Alarm ICON 40 Red Arrow LED Graph(<)) |
| Alarm Sound | Buzzer 92dB | |
| Input Signal | | 4-20mA Full Scale |
| Output Signal | 1st, 2nd, 3rd Relay Dry Contact, 12V. DC | Fault, 1st, 2nd, 3rd Relay Dry Contact, 4-20mA, 12V.DC |
| Accuracy | | FND Digital $\pm 1\%$ Full Scale or 1Digit (Whichever is greater) |
| Alarm Set | depend on configuration of SI-100IA | 1st, 2nd, 3rd Alarm Setting 40 Red Arrow LED Graph(<)) Setting |
| Alarm Reset | Manual Total Reset & HMI | Manual Local Reset |
| Self Test | Battery Test Switch (AC/DC) | Test Switch (0~Max Range 10sec) |
| Scan Time | 10ms | 10ms |
| Back-Up Battery | Ni-Cd Battery 18V 600mA (3, 6Channel) | |
| Operating Power | 110/220V.AC 50/60Hz (or 24V.DC) | |
| Temperature / Humidity | -20°C ~ 60°C, 95%RH | -20°C ~ 60 °C, 95%RH |
| Dimensions | Main Channel Card : 40(W) × 130(H) × 104(D)mm | Alarm Channel Card : 40(W) × 130(H) × 104(D)mm |
| Operating in/out | RS-485 Modbus (SI-100ICU)_Option | |
| Total Weight & Dimensions | 3CH : 7.3kg, 6CH : 10kg Wall Mount Panel 3CH : 278.5(W) × 450(H) × 115(D)mm Wall Mount Panel 6CH : 398.5(W) × 450(H) × 115(D)mm | |
| Option | Built-in light bar | |

Electrochemical Gas Sensor



| | O2 | O2 | CO | H2 | H2S | Hydro Carbon, CO2 etc |
|-------------------------------------|-------------------|--------------------|----------------------|-------------------|-----------------------|----------------------------|
| Model | SS1118 | SS2118 | SS2128 | SS2178 | SS2198 | IR sensor |
| Performance Characteristics | | | | | | |
| Nominal Range | 0~100% | 0~30% | 0~2,000ppm | 0~1,000ppm | 0~100ppm | Depends on type of the gas |
| Maximum Overload | - | - | 5,000ppm | 2,000ppm | 550ppm | |
| Output Singnal | 6.0± 1.0mV | 90± 20μA@/20.9% O2 | 70±20nA/ppm | 15±10nA/ppm | 700±200nA/ppm | |
| Resolution | 0.1% | 0.1% | 0.5ppm typical | 2ppm | < 0.1ppm typical | |
| T90 Response Time | ≤ 15sec | ≤ 15sec | ≤ 25sec | ≤ 30sec | ≤ 20sec | |
| Typical Baseline Range (pure air) | - | - | ≤±2ppm CO equivalent | 0 to 30ppm | ≤±2ppm H2S equivalent | |
| Filter Capacity | - | - | - | - | - | |
| Recommended Load Resistor | - | 100Ω | 10Ω | 10Ω | 10Ω | |
| Repeatability | 2% of signal | 2% of signal | ≤±2ppm CO equivalent | 2% of signal | ≤±2ppm CO equivalent | |
| Output Linearity | Linear | | | | | |
| Positon Sensitivity | None | | | | | |
| Bias Voltage | Not required | | | | | |
| Weight | 7g | 18g | 6g | 6g | 6g | |
| Environmental | | | | | | |
| Temperature Range | -20°C ~ +50°C | | | | | |
| Pressure Range | Atmospheric ±10% | | | | | |
| Relative Humidity Range | 15~90% RH | | | | | |
| Maximum Zero Shift (+20°C to +40°C) | - | - | -2 to 3ppm | -20ppm equivalent | 0.2ppm equivalent | |
| Life Time | | | | | | |
| Long Term Output Drift | Less than 5%/year | | | | | |
| Storage Life | 6months | | | | | |
| Storage Temperature | 0~20°C | | | | | |
| Eapected operating Lift(years) | < 2years | < 2years | > 2years | > 2years | > 2years | |
| Warranty Period | 2years | | | | | |



| NH3 | NO2 | 2ECO | CO / H2S (Dual sensor) | | Ethanol | Formaldehyde |
|----------------------|----------------------|-----------------------|------------------------|-------------------------|-------------------|-------------------|
| SS21N8 | SS2148 | SS2128_B | SS21CH | | SS21A8 | SS21F8 |
| 0-100 ppm | 0-20 ppm | 0-1,000ppm | 0-500ppm CO | 0~ 100ppm H2S | 0-1,000ppm | 0-1,000ppm |
| 200 ppm | 40 ppm | 2,000ppm | 2,000ppm CO | 500ppm H2S | 2,000ppm | 2,000ppm |
| 100±30nA/ppm | - 220±50nA/ppm | 60±20nA/ppm | 80±20nA/ppm | 775±275nA/ppm | 25~40nA/ppm | 200±50nA/ppm |
| < 1 ppm typical | < 0.1 ppm typical | ≤0.5ppm typical | ≤0.5ppm typical | ≤0.5ppm typical | ≤0.01ppm typical | ≤1ppm typical |
| <30sec | <30sec | <20seconds | <30seconds | | <20seconds | <60seconds |
| ±2ppm NH3 equivalent | ±1ppm NO2 equivalent | ≤±2ppm CO equivalent | ≤±2ppm CO | ≤±0.5ppm H2S equivalent | ≤±2ppm | ≤±2ppm |
| - | - | ≥20,000ppm hours | - | - | - | - |
| 10Ω | 10Ω | 10Ω | 10Ω | 10Ω | 10Ω | 10Ω |
| <±10% | <±5% | ≤±2ppm CO equivalent | ≤±3% CO | ≤±2% H2S equivalent | ≤±2% | ≤±3% |
| Linear | | Linear up to 2,000ppm | Linear | | | |
| | | | None | | | |
| | | | Not required | | | |
| 6g | 6g | 7g | 18g | 6g | 6g | 6g |
| | | | -20°C ~ +50°C | | | |
| 800 to 1200 mbar | 800 to 1200 mbar | Atmospheric ±10% | | | | |
| | | | 15~90% RH | | | |
| ± 2ppm equivalent | ± 1ppm equivalent | - | - | -2 to 3ppm | -20ppm equivalent | 0.2ppm equivalent |
| Less than 10%/year | Less than 10%/year | Less than 5%/year | | | | |
| | | | 6months | | | |
| | | | 0~20°C | | | |
| > 2years | > 2 years | < 2years | < 2years | > 2years | > 2years | > 2years |
| | | | 2years | | | |

BMC-2000

Breath CO Monitor

SENKO



Description

BMC-2000 can be used in smoking cessation programs by healthcare professionals. And it also can be used as a noninvasive method to get %COHb in the patient's blood and to screen CO poisoned patients by medical man. The small size and light weight make the BMC-2000 ideal for hand held use. It is mainly used in smoking cessation clinics; it is used for instructional purposes to check on the client's progress and compliance.

Key Feature

- Non-Invasive method to know how much carbon monoxide(CO) poisoned
- Indirect and simple instrument to measure carboxyhemoglobin (COHb) in blood
- Easy to discriminate smoker
- Easy to recognize the degree of CO poisoning (smoking habit)
- Two languages (English, Korean) are provided
- CE certificate of European medical equipment
- Concentration of CO in breath and percentage of COHb in blood are displayed simultaneously
- Adult / Pregnant / Young mode are provided
- Manage analysis data through software



Specification

| | |
|-----------------------------------|---|
| Model | BMC-2000 |
| Measuring gas | CO |
| Measuring type | Breath through the mouth |
| Measuring method | Electrochemical cell |
| Measuring range | 0~100ppm, 0~500ppm |
| Countdown | 15 seconds |
| Accuracy | ±5%/Full scale or 1ppm |
| Hydrogen cross sensitivity | 5~10% / Full scale |
| Resolution | 1ppm |
| Parameter Control | Front 3 switch(calibration, maintenance, configuration setting) |
| Operation mode display | Visual : Graphic LCD Display, LED Indicator Audible : buzzer |
| Measuring value display | Graphic LCD Display |
| LED indicator | 7 Steps (Green/Amber/Red) |
| Reset signal | Auto Power OFF |
| Mounting type | Pocket, Hand carry |
| User mode | Adult / Adolescent |
| Program set mode | Language(Korean, English), Age, Sound, Calibration |
| Operating temperature | 0°C ~ +40°C |
| Operating humidity | 5 to 95%RH(Non-condensing) |
| Mouthpiece adapter | D type bacteria filter |
| Disposable mouthpiece | Diameter 22mm |
| Material | PC+ABS |
| LCD size | 50(W) × 30(H)mm |
| Dimensions | 74(W) × 140(H) × 42(D)mm |
| Weight | 160g |



Certificate



Business License



Factory Registration Certificate



Foreign Investment Enterprises



Certificate of quality management systems



Certificate of Green Technology



TR CU



Certificate of China



CNEx



CE Conformance Report (SPsecure)



Safety Certificate (SPsecure)



CE conformance Report (SI-100)



CPA(SI-100)



Safety Certificate (SP2nd)



CB Test Certificate (SP12C7)



Declaration of Conformity (SP12C7)



Safety Certificate (SP12C7)



EC Declaration of Conformity (BMC-2000)



ATEX(MGT)



Certificate of Russia (Gost-R)



IECEX



Ex NEPSI



ATEX (SGT, SGT-P)



Inmetro (SGT)



Declaration of Conformity (SP2nd)



Sira (MGT)



Certificate of Ukraine



CSA (SGT)



IECEX (SGT, MGT)



PESO (SGT, MGT, SI series)



CSA (MGT)

Thank you.

SENKO

73, Oesammi-ro, 15 beon-gil, Osan-si,
Gyeonggi-do, 18111,
South Korea

Phone: +82 31 492 0445

Fax: +82 31 492 0446

E-mail: sales@senko.co.kr

www.senko.co.kr