INOSENT GAS DETECTION

## UNDERGROUND CAR PARK

INOSENT the brand for reliable gas detection systems.

## INOSENT GASWARNTECHNIK AG

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# INOSENT GAS DETECTION

### **COMPANY**

#### WE ARE INOSENT

Our products are defined by creativity along with constant development. Our goal is to always deliver our customers the best solution while striving to create an excellent enduring working relationship. Trust, fairness and dependability are our highest priorities. At Inosent, we are firmly convinced that the best solutions can only be found through loyal, courteous consultation and collaboration. At the same time, we are always open to new ideas and we enjoy exciting challenges. INOSENT is authentic, fair – and always there for you.

## OUR CUSTOMERS ARE IMPORTANT TO US

Our constant enthusiasm for our work is also the result of our belief in the value of genuine cooperation with our customers. We will give you honest advice that makes it possible for you to profit from our knowledge of the latest technical possibilities. Because, at the end of the day, even a technical field like gas detection technology is about human beings who are working with each other and for each other. And because of that, the honest relationship to our customers and the serious interaction with our customers is the most important thing for Inosent. INOSENT has time for you – and is always there for you.

### WE LIKE TO FIND NEW PATHS

The world is in constant change - and, in technical fields above all, it is important to meet new possibilities with enthusiasm and creativity. When safety is the primary objective, the continual development of systems and solutions work in tandem with this goal. That is why we, at Inosent, keep our enthusiasm for innovation, and work both creatively and carefully on new solutions that can better satisfy our customers' requirements. INOSENT has time for you - and is always there for you.

For more information, please visit www.inosent.ch

# INOSENT GAS DETECTION

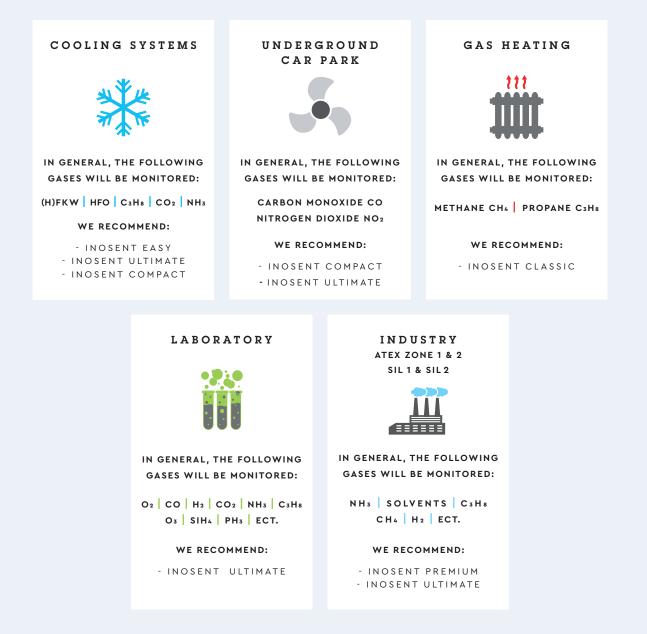
## AREAS OF APPLICATION

INOSENT the brand for reliable gas detection systems.

In the workplace, gas detection systems are an indispensable safety asset across a spectrum of industrial processes. Consider the routine daily use of gases in heating and refrigeration equipment in addition to the dangerous gaseous produced from processes such as, fermentation, incineration, engine combustion to name but a few. These gases can be explosive or toxic as

well as colourless, odourless and tasteless. Gases and their presence in ambient air must therefore, be accurately and professionally monitored continuously on a 24-hour basis.

INOSENT offers you intelligent, comprehensive solutions within a wide scope of industrial applications. We will support you with constructive and competent advice so that you can plan for the highest levels of safety.





## PRODUCT LINES



### EASY



A simple, very high-quality, stand-alone compact solution for small systems:

24 VDC/AC or 230 VAC | LED status display | 85 dB-Alarm Horn 2 Relay outputs | 4-20mA, 0-10VDC, Modbus RTU | IP 65 Protected



### COMPACT

The ideal solution for monitoring CO and NO2 as well as humidity in underground garages:

24 VDC | 32 BUS-Inputs for gas detectors and alarm lights | 4 digital signal inputs | LCD-Display | 8 relays outputs | Modbus RTU | WIFI interface



### CLASSIC

Efficient gas monitoring monitor in a wall-mounted housing for 2, 4 or 6 gas detectors:

24 V DC/AC or 230 VAC | 2, 4 or 6 × 4-20mA-Input | LCD-Display 4 Relay outputs | IP 65 Protected | incorporated data logger



### ULTIMATE

A versatile, intelligent gas detection system with an innovative visual display of parameters on a touch screen:

24 VDC | 90 Inputs for gas detectors, alarm lights and accessories | 7" Touch-Display | USB/ RJ45-Connection | 8 Relay outputs, expandable Modbus RTU/TCP outputs, optional 0-10VDC or 4-20mA



### PREMIUM

A powerful, multi-functional gas detection system specially designed for SIL1 or SIL2 systems:

24 VDC | 256 Inputs for gas detectors (BUS or 4-20mA) LCD-Display | 8 Relay outputs, expandable | 19''-Rack or metal box incorporated data logger



### PORTABLE



**Blackline Safety:** Wide range of gas sensors and accessories. Alarm forwarding with location information by e-mail and SMS.

**Riken Keiki:** Mobile single-gas and mulit-gas devices, extremely robust, smallest and lightest five-gas meter in the world.

## ||...|| INOSENT СОМРАСТ



In underground car parks, carbon monoxide (CO) and nitrogen dioxide (NO<sub>2</sub>) gases must be accurately monitored. If the CO or NO2 concentration increases, perhaps due to increased traffic in the area, there will be an acute risk of poisoning. Control of humidity is also a central requirement in underground car parks. A gas detection system for underground car parks must combine these requirements in the best possible way.



### INOSENT RECOMMENDS THE «COMPACT» PRODUCT LINE FOR UNDERGROUND CAR PARKS.

Thanks to state-of-the-art technology and a sophisticated design, **«COMPACT**» is the ideal solution. Exhaust gas warning lights with builtin horns are activated immediately when danger threatens, so that no one is at risk. There is also a display icon showing the correct behaviour in program and easy to install. the case of alarm. For the differential humidity control, it is necessary to have an absolute humidity detector within the car park and a second detector outside: This is how the Compact product line ensures the best control of ventilation and humidity.

The CO and NO<sub>2</sub> detectors are, like the two moisture detectors, connected to the control centre. The control centre displays the highest measured levels as well as any alarms or malfunctions. The Compact product line is also easy to

### THE COMPACT SOLUTION FOR UNDERGROUND CAR PARKS: THE «COMPACT» PRODUCT LINE



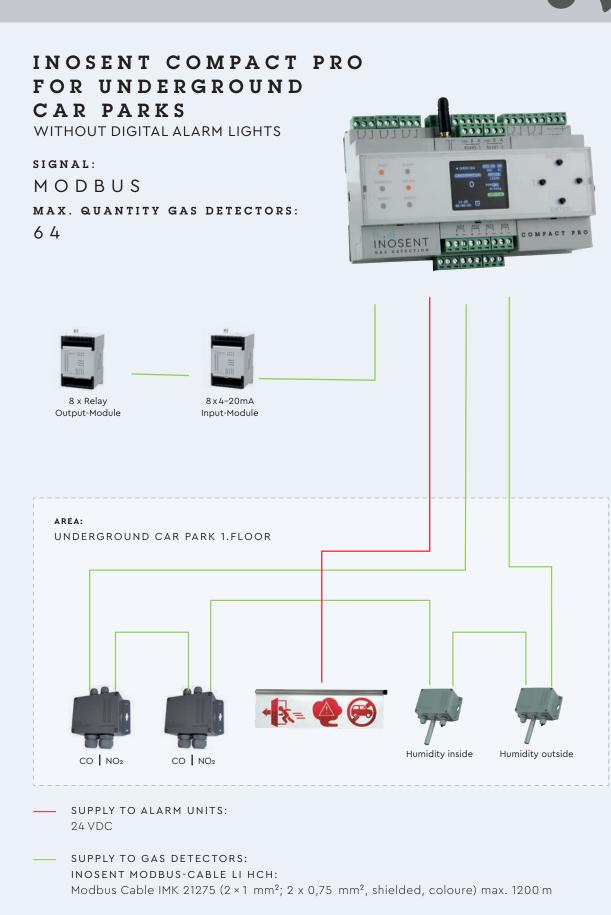
- RELIABLE MONITORING OF CARBON MONOXIDE AND NITROGEN DIOXIDE
- PERFECT HUMIDITY CONTROL
- COMPACT PRO CONTROL PANEL
- GAS DETECTORS FOR MONITORING CO AND NO2; OTHER DETECTORS CAN BE CONNECTED
- LED-LIGHT WITH INTEGRATED ALARM HORN

## ||...|| | N O S E N T **C O M P A C T**



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## ||...|| | N O S E N T **C O M P A C T**



## COMPACT PRO

The INOSENT Compact Pro control center unit has 32 digital detector inputs for monitoring toxic and explosive gases and vapours. Various limit values can be programmed to control components such as fans and solenoid valves. Gas alarms are signaled via BUS-compatible LED alarm lights, so that persons leave endangered zones immediately or do not enter them.



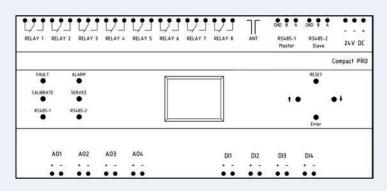
### OVERVIEW:

- EASY TO MOUNT ON A DIN RAIL
- INTEGRATED ALARM HISTROY OF THE LAST 100 EVENTS
- CONCENTRATION LOGIN OF THE LAST 30 DAYS
- PROGRAMMING BY PC VIA WIFI USING
- DIFFERENTIAL HUMIDITY CONTROL FOR UP TO 5 GROUPS
- DISPLAY OF GAS CONCENTRATION, ALARMS AND FAULTS ON DISPLAY
- 4-20MA OUTPUT SIGNAL FOR LINEAR CONTROL OF EC-MOTORS

### TECHNICAL SPECIFICATIONS

**SUPPLY VOLTAGE:** 24 VDC | Max. 32 gas detectors and 32 BUS lights connectable | 8 relay outputs (SPDT) | 4 × 4-20mA output | 4 x digital signal input | 1 x Modbus RTU master | 2 x RS485 connection (1 x Modbus RTU master and 1 x Modbus RTU slave) | WIFI interface for programming **AVAILABLE ACCESSORIES:** Modbus-enabled LED alarm light with integrated horn, Expansion modules for additional relay outpurs or analogue inputs

## 60.0 mm 90.0 mm NOSENT NATIONAL CONTACT 110 157.0 mm



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### DIMENSIONS AND ELECTRONICS



## COMBINED CO/NO2-DETECTOR I2660-CO+NO2

The combined Gas detector is designed for the detection of Carbon Monoxide CO and Nitrogen Dioxide NO2 and will be mainly used in underground car parks. The Gas detector provides analogue (4-20mA and 0-10VDC) and digital (Modbus RTU) output signals. The supply of the gas detector is 24VDC or 230VAC with the optional available power supply. The light grey ABS plastic enclosure is IP 65 protected and the internal sensor can be easily replaced when its life time is over.



### SPECIFCATIONS ELECTRONICS

**SUPPLY:** 11...30 VDC | **POWER CONSUMPTION:** max. 60 mA | **WIRING ANALOGUE/DIGITAL:** 3×0,75 mm2, shielded, 2×2×0,75 mm2, shielded | **SIGNAL-OUTPUT ANALOGUE/DIGITAL:** 2×4...20 mA, 2×0-10VDC, Modbus RTU | **WEIGHT:** 500 gr | **CERTIFICATES:** CE

#### SPECIFCATIONS CO+NO2-SENSOR

MEASURING PRINCIPLE: Electrochemical | MEASURING RANGE: 0...300 ppm CO/ 0...10 ppm NO2 ACCURACY: +/- 3 % of measuring range | RESPONSE TIME: t 90: < 60 sec | OPERATION TEMPERATURE: -20 °C ...+50 °C | HUMIDITY: 14...90 % (non condensing) | SIGNAL DRIFT: < 1% Signal/Month APPROX. LIFETIME AT 20°C: > CO-measuring cell approx. 6 – 8 years; NO2-measuring cell approx. 3 – 4 years depending on applicaton | CALIBRATION: It is necessary to recalibrate the gas detector at least once a year.

### DIMENSIONS AND ELECTRONICS



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## HUMIDITY AND TEMPERATURE DETECTOR 12238-W

The detector is used to measure relative and absolute humidity and temperature. It is characterized by a high repeatability and stability. The detector has analogue and digital output signals. The plastic housing is splash-proof (IP 65), which allows the detector to be mounted outdoors. The detector can optionally be ordered as a duct mounting version (DM) or as a version with remote sensor.



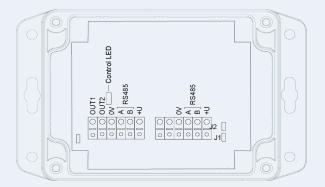
#### SPECIFCATIONS ELECTRONICS

**SUPPLY:** 11...30 VDC | **POWER CONSUMPTION:** max. 60 mA | **WIRING ANALOGUE/DIGITAL:** 3×0,75 mm2, shielded, 2×2×0,75 mm2, shielded | **SIGNAL-OUTPUT ANALOGUE/DIGITAL:** 4...20 mA, 0-10VDC, Modbus RTU | **WEIGHT:** 500 gr | **CERTIFICATES:** CE

#### SPECIFCATIONS SENSOR

MEASURING PRINCIPLE: MEASURING RANGE: OPERATION TEMPERATURE: HUMIDITY: RESPONSE TIME: APPROX. LIFETIME: 0...100 % rH, 0...300 g/m3 absolute humidity, -40...+85 °C ±2,5 %rH/ ±0,3 °C -40 °C ... +85 °C 0...95 % (non condensing) t 90: < 15 sec > 10 Jahre, depending on the application

#### ELECTRONICS





## LED-WARNING SIGN WITH HORN TYPE 160 (BUS-COMPATIBLE)

The 60 cm long LED-Sign with bright red LED's may be used for most types of Gas Alarm. The LED-Sign can be used with a flashing or a continuous light and includes the option to pre-select text or pictograms in different colours, depending on the client's request. The supply voltage of the LED-Sign is 24VDC and it incorporates a 92dB Alarm horn, which can be controlled separately from the LED's.

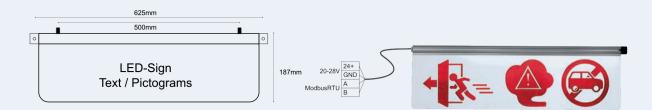
The LED-Sign in combination with the INOSENT BUS-compatible 'Ultimate' or 'Compact' controller allows for independent programming of the LED's and sounder in different alarm modes. This design function facilitates a simple installation on the same BUS-Cable as the gas detectors, eliminating the need for additional cable. The LED-Sign is also available with 30 cm length one sided (standard) or double-sided.



### LED-SIGN (ELECTRONICS)

SUPPLY VOLTAGE: 24 VDC | POWER : max. 2 W | SUPPLY ANALOGUE (24V)/DIGITAL: 2x 0,75 mm, 2×2×0,8 mm2, shielded | PROTECTION CLASS: IP 52 | VOLUME: ca. 92 dB | LIFETEIME LEDS: 50'000 h | WEIGHT: 400 gr | CERTIFICATIONS: CE

### DIMENSIONS AND CONNECTIONS





## CONTACT

### INOSENT IS THERE FOR YOU

Regardless of the reason for your interest in the area of gas detection technology: Contact us and we will do our best to find the optimum solution for you.

We will be happy to go into detail with you and address your specific ideas and concerns because you can always depend on INOSENT.

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