

GAS HEATING

INOSENT the brand for
reliable gas detection systems.

INOSENT
GASWARNTÉCHNIK AG

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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.

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.

COOLING SYSTEMS



IN GENERAL, THE FOLLOWING GASES WILL BE MONITORED:

(H)FKW | HFO | C₃H₈ | CO₂ | NH₃

WE RECOMMEND:

- INOSENT EASY
- INOSENT ULTIMATE

UNDERGROUND CAR PARK



IN GENERAL, THE FOLLOWING GASES WILL BE MONITORED:

CARBON MONOXIDE CO
NITROGEN DIOXIDE NO₂

WE RECOMMEND:

- INOSENT COMPACT
- INOSENT ULTIMATE

GAS HEATING



IN GENERAL, THE FOLLOWING GASES WILL BE MONITORED:

METHANE CH₄ | PROPANE C₃H₈

WE RECOMMEND:

- INOSENT CLASSIC

LABORATORY



IN GENERAL, THE FOLLOWING GASES WILL BE MONITORED:

O₂ | CO | H₂ | CO₂ | NH₃ | C₃H₈
O₃ | SiH₄ | PH₃ | ECT.

WE RECOMMEND:

- INOSENT ULTIMATE

INDUSTRY ATEX ZONE 1 & 2 SIL 1 & SIL 2



IN GENERAL, THE FOLLOWING GASES WILL BE MONITORED:

NH₃ | SOLVENTS | C₃H₈
CH₄ | H₂ | ECT.

WE RECOMMEND:

- INOSENT PREMIUM
- INOSENT ULTIMATE

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 | 16 BUS-Inputs for gas detectors and alarm lights | 4 x 4-20mA-Input | LCD-Display | 8 Digital outputs | Output 0-10VDC, Modbus RTU

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 x 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

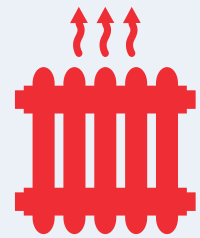


A powerful, multi-functional gas detection system specially designed for SIL1 or SIL2 systems:

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

GAS HEATING

When using gas heaters, liquefied propane gas (propane/ C_3H_8) and natural gas (methane/ CH_4) must be carefully monitored on a 24 hour basis. Because their use may result in dangerous gas leaks that must be immediately reported and stopped. Gas leaks caused by wear and vibration can be very dangerous, and the danger can be mitigated by using the correct gas detection system.

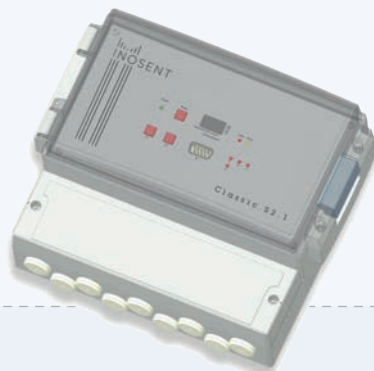


INOSENT RECOMMENDS THE «**CLASSIC**» PRODUCT LINE FOR BOILER PLANT ROOMS.

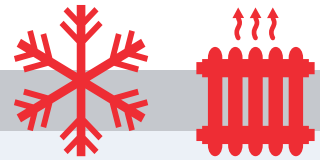
For monitoring natural gas or liquefied propane, the «**CLASSIC**» product line is ideal: The programmable, self-monitoring gas monitor gives an alarm when upper and lower boundary values are exceeded. The alarm consists of a central flashing light and/or an alarm horn. In addition to the alarm, the gas flow will be stopped by closing a solenoid valve on the gas line, the burner turned off and the ventilation switched on.

The gas detectors are available with and without a display. Gas detectors are also available for use in explosion zones 1 and 2; for indoors applications, the detectors are also available in a white plastic housing. However, the gas detectors, which are not explosion-proof, have, as standard equipment, an optical and acoustical alarm indicator and can also be used without a gas monitor.

SIMPLE, CLEAR-CUT, AND IDEAL FOR GAS HEATERS:
THE «**CLASSIC**» PRODUCT LINE



- RELIABLE MONITORING OF METHANE AND PROPANE
- THE CONTROL PANEL «CLASSIC»
- GAS DETECTORS FOR MONITORING OF CH_4 AND C_3H_8 ; OTHERS CAN BE CONNECTED
- FLASHING LIGHT



INOSENT CLASSIC

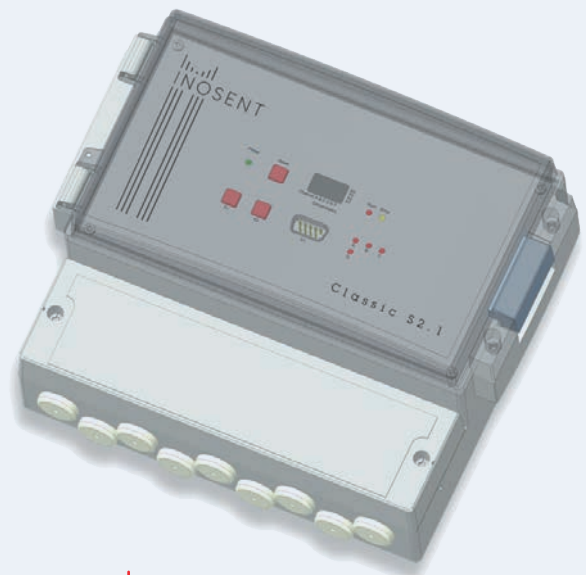
STANDARD – ANALOGUE SYSTEM

SIGNAL:

4 - 20 M A

MAX. QUANTITY GAS DETECTORS:

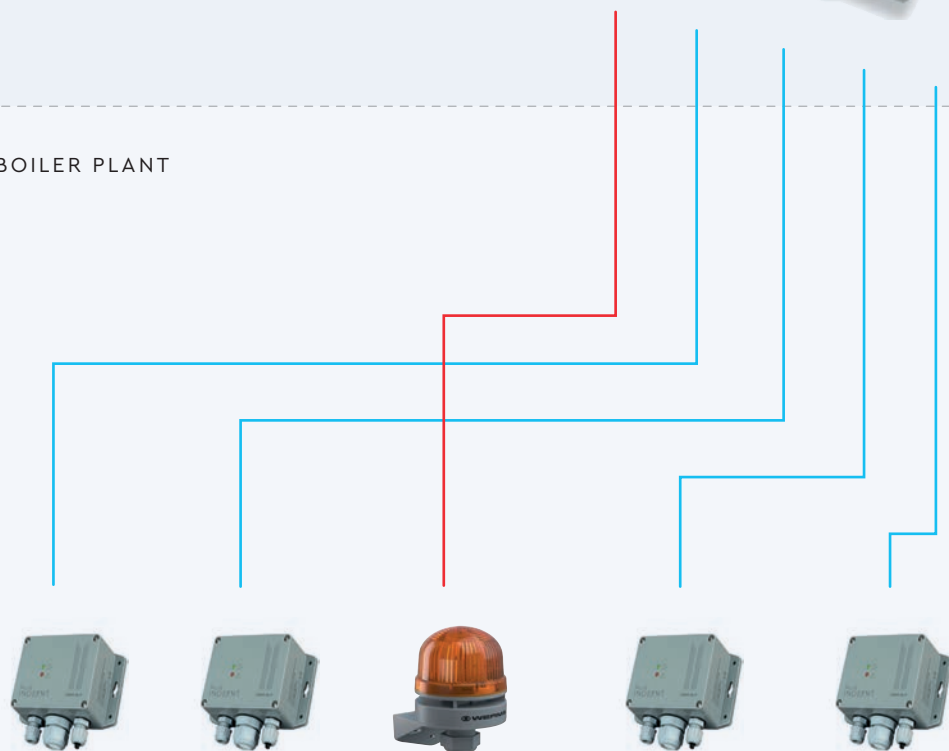
2 OR 4

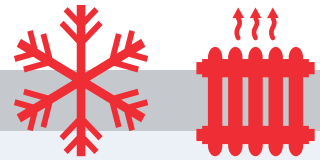


— SUPPLY TO GAS DETECTORS:
3 × 0,75 mm², shielded, max. 1000 m

— SUPPLY TO ALARM UNITS:
24 VDC or 230 VAC

AREA:
E.G. BOILER PLANT

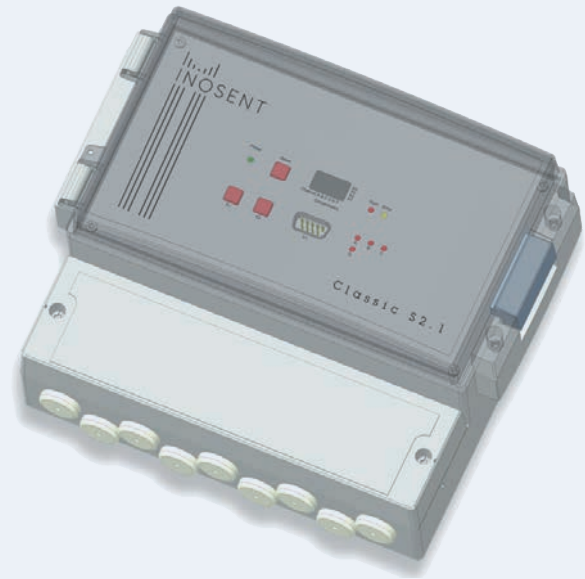




CLASSIC S2.1 / S4.1

The Classic product line is an efficient gas monitor in a wall-mounted housing for 2 or 4 detectors. It is used to monitor the concentration levels of gases and vapours. The alarm is triggered when pre-programmed alarm levels are exceeded. The Classic product line has a built-in data logger and connectors for different detectors.

The Classic product line can easily be programmed using the PC. Using potential-free relay outputs, devices such as solenoid valves or flashing lights can be activated.



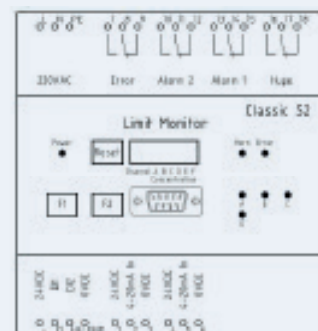
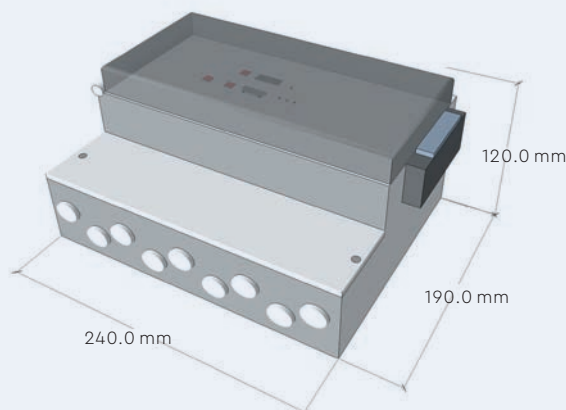
OVERVIEW:

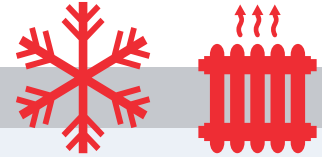
- 2 YEARS WARRANTY
- CONVENIENT WALL MOUNTING
- PROGRAMMING USING PC
- DISPLAY OF MEASURING RANGES, ALARM LEVELS AND ALARM GROUPS

TECHNICAL SPECIFICATIONS

SUPPLY VOLTAGE: 24 VDC/AC or 230 VAC | LED status display for operational status and malfunctions | LED alarm display for pre-alarm and main alarm | Protection level IP 65 | 4 built-in relay contacts | **SIGNAL INPUT:** 2 (S2.1) or 4 (S4.1) x 4-20mA

DIMENSIONS AND CONNECTIONS

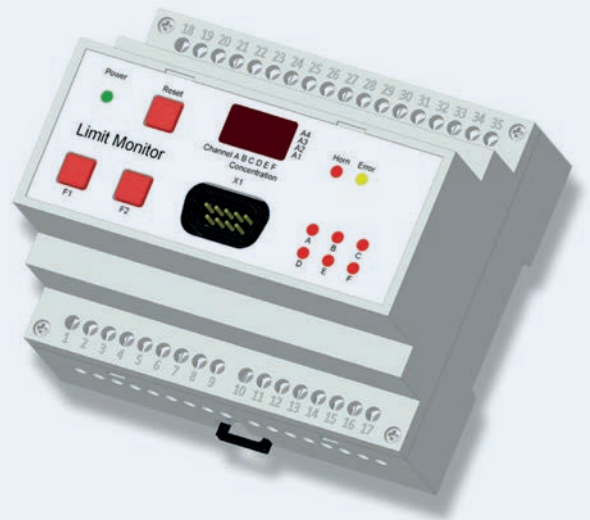




CLASSIC TS4.1 / TS6.1

The Classic product line is an efficient gas monitor for mounting on a top hat rail for 4 oder 6 detectors. It is used to monitor the concentration levels of gases and vapours. The alarm is triggered when pre-programmed alarm levels are exceeded. The Classic product line has a built-in data logger and connectors for different detectors.

The Classic product line can easily be programmed using the PC. Using potential-free relay outputs, devices such as solenoid valves or flashing lights can be activated.



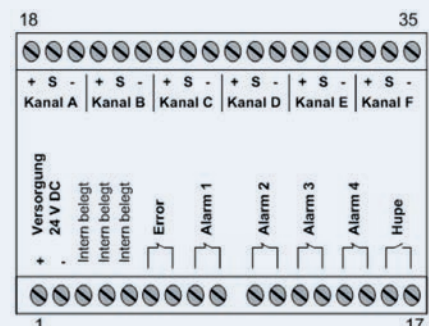
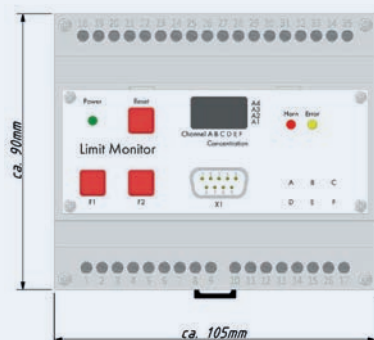
OVERVIEW:

- 2 YEARS WARRANTY
- CONVENIENT TOP HAT RAIL MOUNTING
- PROGRAMMING USING PC
- DISPLAY OF MEASURING RANGES, ALARM LEVELS AND ALARM GROUPS

TECHNICAL SPECIFICATIONS

SUPPLY VOLTAGE: 24 VDC | LED status display for operational status and malfunctions | 4 (TS4.1) or 6 (TS6.1) built-in relay contacts (normally closed contacts), 250 VAC, 1 A | LED alarm display for pre-alarm and main alarm | Protection level IP 20 | **SIGNAL INPUT:** 4 (TS4.1) or 6 (TS6.1) x 4-20mA

DIMENSIONS AND CONNECTIONS



IP65



METHANE-DETECTOR I2608-CH4-S

The Gas detector is designed for the detection of Methane CH₄ and provides 2 internal relay outputs for ventilation control and alarm, a 85dB Alarm buzzer and an LED alarm indicator. 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. The Gas detector operates also „standalone“, without any gas monitor. The Gas detector is also available with an incorporated display, a remote sensor probe, as a duct-mount version or in a neutral IP20 enclosure for Indoor-Installation.



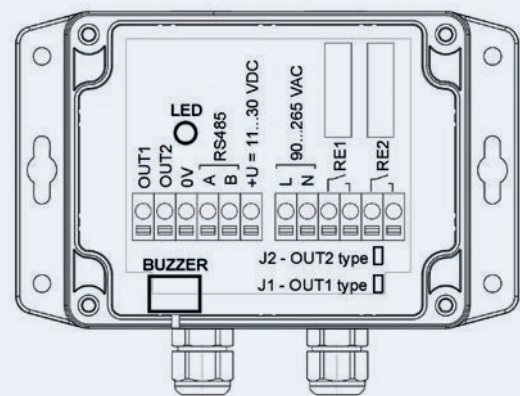
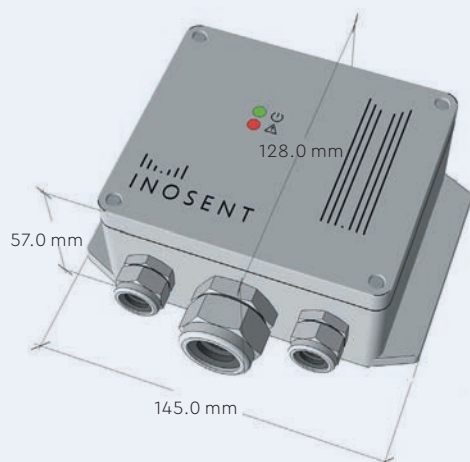
SPECIFICATIONS ELECTRONICS

SUPPLY: 11...30 VDC/VAC (optional 90...265 VAC) | **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 | **RELAY OUTPUTS:** 2 SPST (250 VAC/ 30 VDC, 5A max) | **WEIGHT:** 500 gr | **CERTIFICATES:** CE

SPECIFICATIONS SENSOR

MEASURING PRINCIPLE: Semiconductor | **MEASURING RANGE:** 0...100 % LEL | **ACCURACY:** +/- 3 % of measuring range | **RESPONSE TIME:** t₉₀: < 30 sec | **OPERATION TEMPERATURE:** -30 °C ...+70 °C
HUMIDITY: 0...95 % (non condensing) | **SIGNAL DRIFT:** < 1 % Signal/Month |
APPROX. LIFETIME: > 15 years, depending on application | **CALIBRATION:** It is necessary to recalibrate the gas detector at least once a year.

DIMENSIONS AND ELECTRONICS



IP65



PROPANE-DETECTOR I2608-C3H8-P

The Gas detector is designed for the detection of Propane C₃H₈ and provides 2 internal relay outputs for ventilation control and alarm, a 85dB Alarm buzzer and an LED alarm indicator. 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. The Gas detector operates also „standalone“, without any gas monitor. The Gas detector is also available with an incorporated display, a remote sensor probe, as a duct-mount version or in a neutral IP20 enclosure for Indoor-Installation.



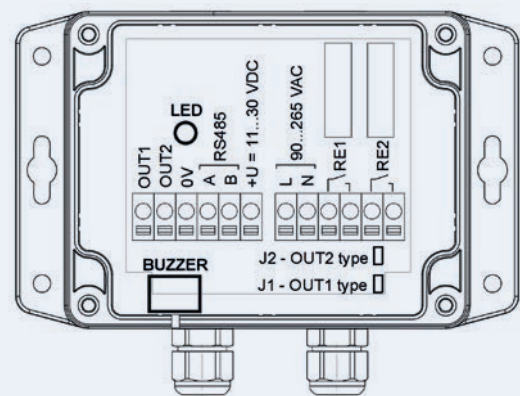
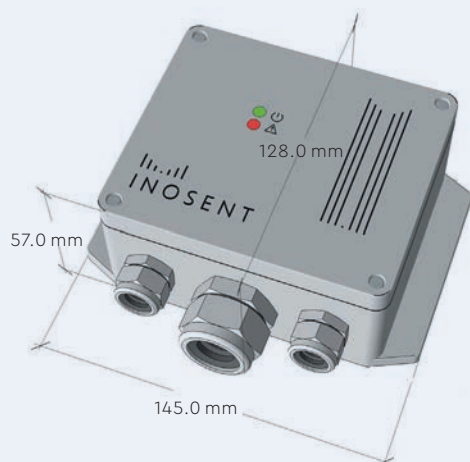
SPECIFICATIONS ELECTRONICS

SUPPLY: 11...30 VDC/VAC (optional 90...265 VAC) | **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 | **RELAY OUTPUTS:** 2 SPST (250 VAC/ 30 VDC, 5A max) | **WEIGHT:** 500 gr | **CERTIFICATES:** CE

SPECIFICATIONS SENSOR

MEASURING PRINCIPLE: Pellistor | **MEASURING RANGE:** 0...100 % LEL | **ACCURACY:** +/- 3 % of measuring range | **RESPONSE TIME:** t₉₀: < 30 sec | **OPERATION TEMPERATURE:** -40 °C ...+60 °C
HUMIDITY: 0...95 % (non condensing) | **SIGNAL DRIFT:** < 1 % Signal/Month |
APPROX. LIFETIME AT 20°C: > 6 years, depending on application | **CALIBRATION:** It is necessary to recalibrate the gas detector at least once a year.

DIMENSIONS AND ELECTRONICS



ALARM LIGHT WITH HORN TYPE I94-230

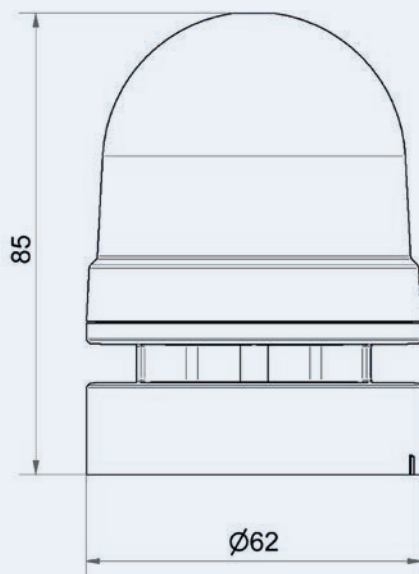
Horn with flashing light in current technology without mechanical wear parts. 2 different sound variants selectable by means of a toggle switch. Separate control of the light and the horn possible. Standard colour yellow.



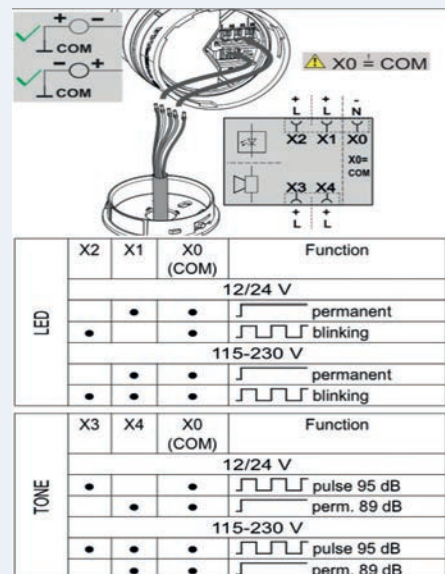
SPECIFICATIONS

SUPPLY VOLTAGE: 230 VAC
POWER: max. 60mA
WIRING: 2x0,75 mm
PROTECTION CLASS: IP 66 (ABS-CASE)
VOLUME: 95 dB
SOUNDS: 2 sounds variants
LIGHTNING: 0,7Ws 1 Hz
OPERATING TEMPERATURE: -30...+60 °C
DIMENSIONS: height 85mm, diameter 62mm
WEIGHT: 78 gr
CERTIFICATIONS: CE

DIMENSIONS



CONNECTIONS



LED-WARNING SIGN WITH HORN TYPE I30 (BUS-COMPATIBLE)

The 30 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.

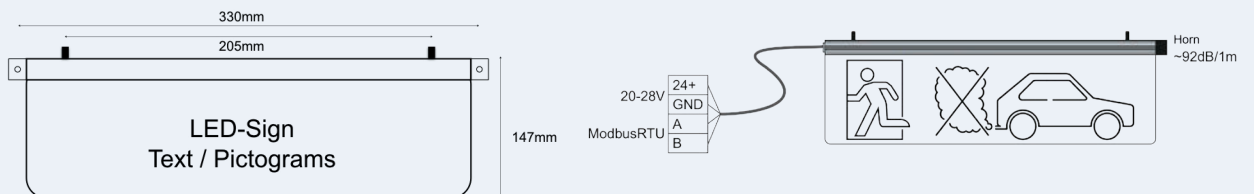
The LED-Sign in combination with the INOSENT BUS-compatible 'Ultimate' or 'Compact' controller allows for independent programming of the LED's and sounder in different alarm modes. This design function facilitates a simple installation on the same BUS-Cable as the gas detectors, eliminating the need for additional cable. The LED-Sign is also available with 60 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, 2x2x0,75 mm², shielded | **PROTECTION CLASS:** IP 52 | **VOLUME:** ca. 92 dB | **LIFETIME LEDS:** 50'000 h | **WEIGHT:** 400 gr | **CERTIFICATIONS:** CE

DIMENSIONS AND CONNECTION



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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