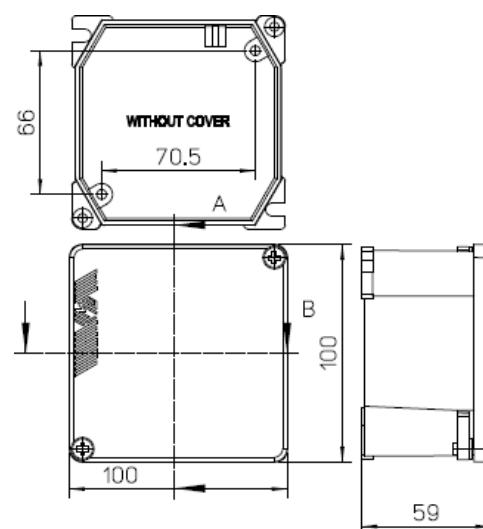


IRON/CO2

SERIAL and 4÷20 mA

CO2 GAS DETECTOR (CARBON DIOXIDE)



The IRON / CO2 carbon dioxide detectors use a professional infrared sensor.

They are designed to be connected to analytic control panels with 4÷20 mA inputs (like MODULA 4 and MODULA 8) or to digital control panels via RS485 serial connection (like MODULA 40 and MODULA 128).

IRON detectors are suitable for use in industrial, commercial environments and in all those places where a leak or an abnormal concentration of CO2 carbon dioxide can constitute a danger to people or a deterioration of things.

In particular, these detectors are suitable for CO2 detection in mineral water bottling industries, purifiers, mixing and fermentation plants, farms, cellars, greenhouses for plants and flowers.

The aluminium alloy container makes the detector particularly suitable for environments with strong chemical aggression, including marine aggression, giving it high mechanical resistance.

Thanks to the high selectivity, the IRON / CO2 detectors are resistant to non-combustible gases or vapours often present in industrial environments.

Features

- ▲ Linear communication line 4÷20 mA (3 wires) and digital RS485
- ▲ Wide range of power supply (10÷30 Vdc)
- ▲ Infrared sensor
- ▲ Low energy detector
- ▲ Corrosion and impact resistant aluminium container
- ▲ Degree of protection IP65
- ▲ Fault signalling during preheating or in case of sensor failure
- ▲ Standard version for 1 type of gas and on request with different measuring ranges

AVAILABLE VERSIONS

B40-IRON/CO2 IP65 4÷20 mA 10/30 Vdc CO2

COMPATIBLE CONTROL PANELS

MODULA4	Control panel with linear line 4÷20 mA - 4 zones
MODULA8	Control panel with linear line 4÷20 mA - 8 zones
MODULA40	Control panel with linear line 4÷20 mA - 8 zones and 32 zones on RS485 communication line
MODULA128	Control panel with linear line 4÷20 mA - 8 zones and 128 zones on RS485 communication line

Compatible with all control panels equipped with 4-20 mA inputs



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IRON/CO2

CO2 GAS DETECTOR (CARBON DIOXIDE)

Applications

- ▲ Industry, tertiary
- ▲ Mineral water bottling industries
- ▲ Purifiers, mix plants and fermentations
- ▲ Farms
- ▲ Cellars, greenhouses for plants and flowers

Technical specifications

POWER SUPPLY

Power supply voltage: 10÷30 Vdc

Electrical absorption: Max 34mA @ 24 Vdc; Stand-by 15 mA @ 24 Vdc

WORKING ENVIRONMENT

Operating temperature: -10 / + 50°C

Relative humidity: 5 ÷ 95% without condensation

Degree of protection: IP65

MECHANICS

Dimensions: 130 x 100 x 59 mm

Weight: 520 gr

Color: Grey (RAL 7040)

Body in corrosion resistant aluminium alloy; stainless steel
Container: screws and sensor head
Epoxy painting

Mounting: Wall

SENSOR

Type: Infrared

Measuring range: Based on specific needs, it is possible to provide customized measuring ranges (10000 ppm or higher)

Average life: 5 years

Further characteristics: High selectivity, resistant to exposure to interfering gases and vapours

COMMUNICATIONS

Type: linear 4÷20 mA, 3 wires, digital RS485

Range: 4÷20 mA

Shutdown: 0 mA

Failure: < 2 mA

Over range: 22 mA
Short circuit output protection

COMPLIANCE EN 50270
EN 45544-4

WARRANTY Two (2) years



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The manufacturer can change without prior notice product specifications and details.
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