

WPDS/CO2

SERIAL and 4÷20 mA

CO₂ GAS DETECTOR (CARBON DIOXIDE)



The WPDS / 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).

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

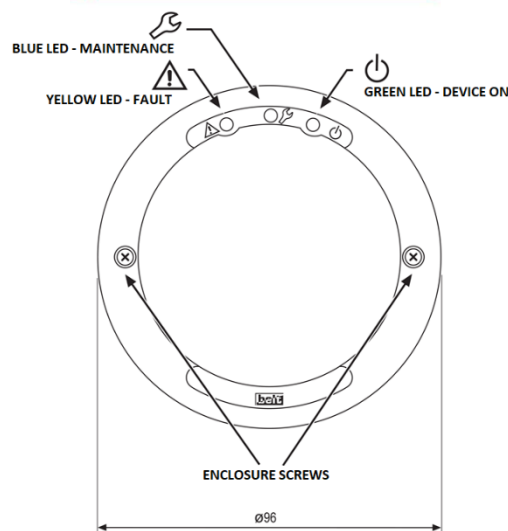
In particular, these detectors are suitable for CO₂ detection in mineral water bottling industries, purifiers, mix and ferment plants, farms, cellars, greenhouses for plants and flowers.

The PC/ABS plastic container gives the detector a high mechanical resistance.

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

Features

- ▲ Linear transmitter 4÷20 mA (3 wires) and digital RS485
- ▲ Wide range of supply voltage (10÷30 Vdc)
- ▲ Infrared sensor
- ▲ Low energy detector
- ▲ Corrosion and impact resistant PC/ABS container
- ▲ Degree of protection IP55
- ▲ 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

B20-WPDS/CO₂ IP55 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 line
MODULA128	Control panel with linear line 4÷20 mA - 8 zones and 128 zones on RS485 line

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

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WPDS/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 / + 40°C

Relative humidity: 20 ÷ 95% without condensation

Degree of protection: IP55

MECHANICS

Dimensions: ø96 x 59 mm

Weight: 171 gr

Color: LIGHT GREY (RAL 7035)

Container: PC/ABS UL94V0

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

Overrange: 22 mA
Short circuit output protection

COMPLIANCE EN 50270 - EN 45544-4

WARRANTY Two (2) years



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