

WPDS/CA3S

SERIAL and 4 ÷ 20 mA

CO GAS DETECTOR (CARBON MONOXIDE)



The WPDS/CA3S carbon monoxide detectors, they use professional electrochemical 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).

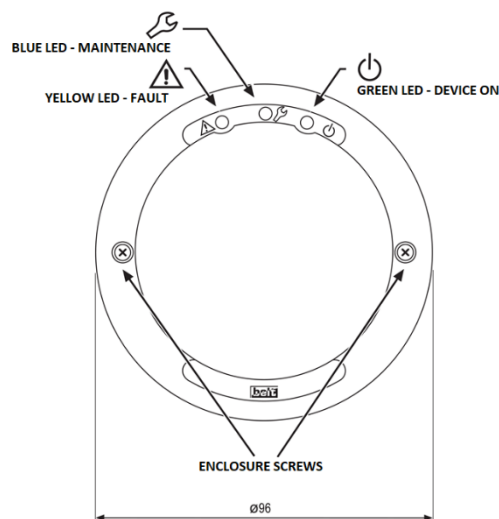
WPDS detectors are suitable for use in all industrial and commercial applications where the detection of low concentrations of carbon monoxide (CO) in the air is required.

WPDS detectors are particularly suitable for CO detection in covered or underground car parks, garages and thermal power plants.

The WPDS / CA3S is equipped with a sensor module that use a high quality and precision electrochemical cell combined with an industrial type control electronics. The replaceable module sensor of the WPDS / CA3S allows for fast and reliable system maintenance and has a normal service life of 5 years. The PC/ABS plastic container gives the detector a high mechanical resistance. Thanks to the high selectivity, the WPDS/CA3S 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)
- ▲ Electrochemical sensor
- ▲ Low energy detector
- ▲ Corrosion and impact resistant PC/ABS container
- ▲ Degree of protection IP55
- ▲ Fault signalling during stabilization time or in case of sensor failure
- ▲ Standard version for 1 type of gas and on request with different measuring ranges



AVAILABLE VERSIONS

B20-WPDS/CA3S IP55 4÷20 mA 10/30 Vdc CO

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 central units equipped with 4-20 mA input

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Applications

- ▲ Industry, tertiary
- ▲ Underground parking, garages
- ▲ Craft and school laboratories
- ▲ Kitchens, canteens, catering
- ▲ Detection of gas leaks near gas powered hot air generators
- ▲ Thermal power plants
- ▲ Chemical laboratories

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: Electrochemical

Stabilization time: < 30 seconds

Measuring range: 0-300 ppm
Based on specific needs, it is possible to provide customized measuring ranges (max 500 ppm)

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

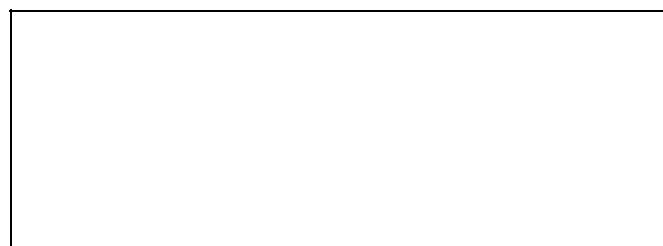
COMPLIANCE

EN 50270
EN 50271
EN 50545-1
EN 45544-4

WARRANTY Two (2) years



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