

# WPDS/CAX

## SERIAL and 4÷20 mA

### COMBUSTIBLE GAS DETECTOR



The WPDS/CAX series combustible gas detectors use professional catalytic sensors.

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 combustible gases is required.

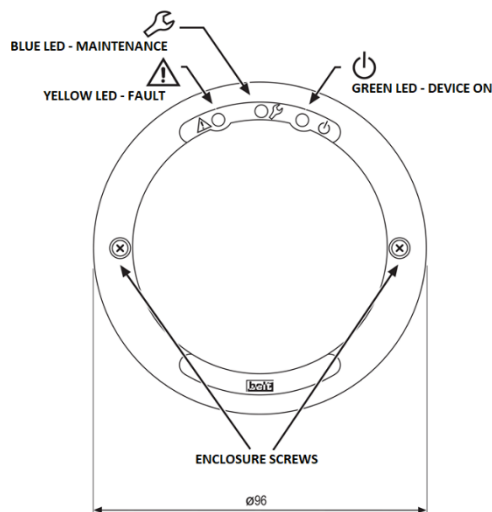
WPDS detectors are particularly suitable for the detection of combustible gases in covered or underground car parks, garages and thermal power stations.

The sensor module of the WPDS / CAX uses a high quality and precision catalytic sensor combined with industrial-type control electronics, it is replaceable to allow rapid and reliable maintenance of the systems and has a operating life of 5 years. The PC/ABS plastic container gives the detector a high mechanical resistance.

Thanks to the high selectivity, the WPDS / CAX detectors are resistant to interfering gases or combustible 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)
- ▲ Catalytic sensor
- ▲ Low energy detector
- ▲ Corrosion and impact resistant PC/ABS plastic container
- ▲ Degree of protection IP55
- ▲ Fault signalling during preheating or in case of sensor failure (CEI 216 / 5-3)
- ▲ Standard versions for 4 types of gas and versions for gas and / or with different measuring ranges on request



### AVAILABLE VERSIONS

|                     |                                         |
|---------------------|-----------------------------------------|
| <b>B20-WPDS/CA1</b> | IP55 4 ÷ 20 mA 10/30 Vdc METHANE        |
| <b>B20-WPDS/CA2</b> | IP55 4 ÷ 20 mA 10/30 Vdc LPG            |
| <b>B20-WPDS/CA4</b> | IP55 4 ÷ 20 mA 10/30 Vdc HYDROGEN       |
| <b>B20-WPDS/CA5</b> | IP55 4 ÷ 20 mA 10/30 Vdc GASOLINEVAPOUR |

### Accessories

|         |                                           |
|---------|-------------------------------------------|
| B98-BG1 | 50ml propane-butane spray can for testing |
|---------|-------------------------------------------|

### 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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# WPDS/CAX

## COMBUSTIBLE GAS DETECTOR

### Applications

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

## Technical specifications

### POWER SUPPLY

Power supply voltage: 10÷30 Vdc

Electrical absorption: 95 mA a 10 Vdc; 50 mA a 30 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: Catalytic

Preheating time: < 30 seconds

0-30% L.E.L. per all gases

Measuring range: Based on specific needs, it is possible to provide customized measuring ranges (max 0-50% L.E.L.)

Average life: 5 years

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

### 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  
CEI 216/5-3

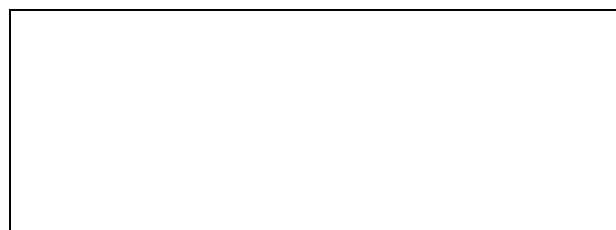
### WARRANTY

Two (2) years



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