



The WPD/CAL series combustible gas detectors use a catalytic bead sensor coupled with a professional 4÷20 mA linear transmitter.

Despite their accurate performances, the WPD/CAL gas detectors are resistant from poisoning caused by non-combustible gases and vapors often present in industrial areas.

The WPD/CAL detectors are compliant with the CEI 216/5-3 normative regarding combustible gas detectors used in non-hazardous industrial and tertiary areas, hence in those applications not included in the ATEX 94/9 CE directive.

Features

- Linear 4÷20 mA, 3-wire transmitter
- Wide supply voltage range (10÷30 Vdc)
- Catalytic bead sensor
- Low current consumption
- IP55 enclosure rating
- Failure indication during warm-up or in case of sensor fault (CEI 216/5-3)
- Standard models for 20 types of gas; custom made versions for other gases and/or with different measuring ranges available on request

Ordering Information

Models

B30-WPD/CAL01	Methane (CH ₄)
B30-WPD/CAL02	L.P.G.
B30-WPD/CAL04	Hydrogen (H ₂)
B30-WPD/CAL05	Gasoline vapors
B30-WPD/CAL06	Propane (C ₃ H ₈)
B30-WPD/CAL07	Butane (C ₄ H ₁₀)
B30-WPD/CAL09	Ethanol (C ₂ H ₆ O)
B30-WPD/CAL10	Methanol (CH ₄ O)
B30-WPD/CAL12	Pentane (C ₅ H ₁₂)
B30-WPD/CAL15	Xylol (C ₈ H ₁₀)
B30-WPD/CAL16	Acetone (C ₃ H ₆ O)
B30-WPD/CAL17	Hexane (C ₆ H ₁₄)
B30-WPD/CAL18	Ethane (C ₂ H ₆)
B30-WPD/CAL22	Isobutane (C ₄ H ₁₀)

Accessories and spares

B98-BG1	Gas bottle 50 ml propane-butane for test
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Compatible controllers

B30-MODULA4	MODULA 4 control unit
B30-MODULA8	MODULA 8 control unit
B30-MODULA40	MODULA 40 control unit
B20-UN2A	UNIKA 2 control unit
B20-UN4A	UNIKA 4 control unit

Compatible with all 4÷20 mA control units

Specifications

Power

Power input: 10÷30 Vdc
Power consumption: 95 mA at 10 Vdc; 50 mA at 30 Vdc

Environmental

Operating temperature: -10 / +50°C
Relative humidity: 5÷95% non-condensing
Enclosure rating: IP55

Mechanical

Dimension: Ø 96 x 59 mm
Weight: 153 gr
Color: Light grey (RAL 7035)
Housing: PC-ABS UL94-VO
Mounting: Wall mounted

Sensor

Type: Catalytic bead
Warm-up time: < 30 seconds
Measuring range: 0÷30% L.E.L. for all gases
In base of specific needs, it is possible to supply custom measuring ranges (max 0÷50% L.E.L.)
Life expectancy: 5 years
Further features: Highly selective, poison resistant

Transmitter

Transmitter: 4÷20 mA, 3-wire transmitter
Range: 4÷20 mA
OFF: 0 mA
Fault: < 2 mA
Overrange: 22 mA
Output short-circuit protection
Compatible with both positive and negative input controllers (dip-switch selectable)

Approvals

EN 50270
CEI 216/5-3

Warranty

Two (2) years

Combustible gas detector

WPD/CAL

Typical applications

- Industry, tertiary areas
- Underground parking areas, garages
- Handicraft and school laboratories
- Industrial kitchens, canteens and restoration facilities
- Gas detection nearby gas powered air heaters
- Boiler rooms
- Chemical laboratories and other areas classified as not hazardous by EN 60079, hence not included in ATEX 94/9 CE directive

This data sheet replaces previous ones.
The manufacturer can change without prior notice product specifications and details. Descriptions and illustrations are shown only in order to aid the customer. All data herewith enclosed is the copyright protected.



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DS-EN-WPDCAL-20180521