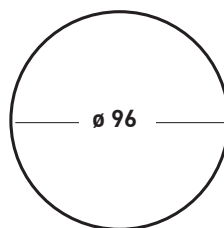


Double threshold gas detector

WPD/MOS

with plug-in sensor module



WPD/MOS gas detectors use plug-in replaceable catalytic bead and semiconductor sensor modules (MOS). MOS modules are available for both combustible gases and carbon monoxide.

The detectors are designed to be used both in industry and tertiary premises, in all areas not classified as potentially explosive by ATEX directive.

Features

- High quality sensors provide reliable protection, accurate performance and long life
- Plug-in replaceable sensor module
- Factory tested and calibrated, ready for installation
- Fixed threshold output 12/20 mA
- Alarm setpoint selection (6% - 10% L.E.L.)
- Sensor fault indication
- Low current consumption
- IP55 enclosure rating

Ordering Information

Models - 12 Vdc power supply

B20-WPD12/M1	with MOS1 - Methane (CH ₄)
B20-WPD12/M2	with MOS2 - L.P.G.
B20-WPD12/M3*	with MOS3 - Carbon monoxide (CO)
B20-WPD12/M4	with MOS4 - Hydrogen (H ₂)
B20-WPD12/M5	with MOS5 - Gasoline vapors

Models - 24 Vdc power supply

B20-WPD24/M1	with MOS1 - Methane (CH ₄)
B20-WPD24/M2	with MOS2 - L.P.G.
B20-WPD24/M3*	with MOS3 - Carbon monoxide (CO)
B20-WPD24/M4	with MOS4 - Hydrogen (H ₂)
B20-WPD24/M5	with MOS5 - Gasoline vapors

*For the CO version install B20-WPDBR/CA3 model and read carefully the date sheet.

Accessories and spares

B95-MOS1	MOS1 module - Methane (CH ₄)
B95-MOS2	MOS2 module - L.P.G.
B95-MOS3	MOS3 module - Carbon monoxide (CO) thresholds set to 100/200 ppm
B95-MOS3/X	MOS3 module - Carbon monoxide (CO) thresholds set to 50/100 ppm
B95-MOS4	MOS4 module - Hydrogen (H ₂)
B95-MOS5	MOS5 module - Gasoline vapors
B98-BG1	Gas bottle 50 ml propane-butane (for test combustible gas)

Compatible controllers

(only for 12 Vdc power supply models)

B20-UN2A	UNIKA 2 control unit
B20-UN4A	UNIKA 4 control unit

Specifications

Power

Power input: WPD12: 12 Vdc [-15% / +10%]
WPD24: 24 Vdc [-15% / +10%]

Power consumption: see table

Environmental

Operating temperature: see table
Relative humidity: see table
Enclosure rating: IP55

Mechanical

Dimensions: Ø 69 x 59 mm
Weight: 173 gr
Color: Light grey (RAL 7035)
Housing: PC-ABS UL94-V0
Mounting: Wall mounted

Sensor

Sensor: Plug-in interchangeable sensor module
Type: Catalytic bead (combustible gases)
Semiconductor (carbon monoxide)
Life expectancy: > 4 years
Stabilization time: < 8 hours (combustible gases);
< 24 hours (CO)
Warm-up time: < 1 minute
Alarm setpoints: see table
Further features: Highly selective
Sensor fault indication

Gas	Sensor module	Response time (T)	Relative humidity*	Operating temperature	Power consumption		Pre-alarm setpoint	Alarm setpoint
					12Vdc	24Vdc		
CH ₄	MOS1	< 15 s	5+95%	-10/+50°C	77 mA	60 mA	6% L.E.L.	10% L.E.L.
L.P.G.	MOS2	< 15 s	5+95%	-10/+50°C	77 mA	60 mA	6% L.E.L.	10% L.E.L.
CO	MOS3	< 30 s	30+95%	-5/+40°C	33 mA	43 mA	100 ppm	200 ppm
CO	MOS3/X	< 30 s	30+95%	-5/+40°C	33 mA	43 mA	50 ppm	100 ppm
H ₂	MOS4	< 15 s	5+95%	-10/+50°C	77 mA	60 mA	6% L.E.L.	10% L.E.L.
Gasoline vapors**	MOS5	< 15 s	5+95%	-10/+50°C	77 mA	60 mA	12% L.E.L.	20% L.E.L.

* non-condensing ** Pentane

Transmitter

Transmitter: Fixed threshold transmitter
Air: 4 mA
Pre-alarm: 12 mA
Alarm: > 20 mA

Short-circuit protection
RL 250 Ω ; for positive input controllers;
version for negative input controllers available on request

Led indicators

Green: Power on/sensor module correctly installed
Red: Alarm/sensor module not installed or defective

Approvals

EMC (EN 50270)

Warranty

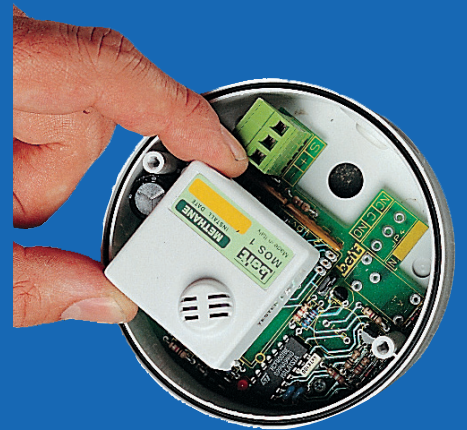
Two (2) years

Double threshold gas detector

WPD/MOS

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 non 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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