

PARK GAS TRANSMITTERS with enose[®] Technology



enose[®] Technology

DESCRIPTION

Gas detectors suitable for continuous monitoring of combustible or toxic substances in atmosphere. Conceived for work places, car parking areas and industrial sites where it is necessary an air quality monitoring.

NEW TWIN-PARK: double channel gas detector for car parking areas conceived to detect two gases simultaneously: two toxic (CO and NO₂) or one toxic and one combustible (CO + LPG or Gasoline Vapours).

APPLICATIONS

Car parking places monitoring combustible gases, and toxic gases emissions, specific detection of Carbon Monoxide (CO), and Nitrogen Dioxide (NO₂)

Main Characteristics

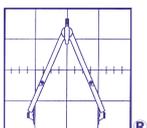
Microprocessor based.
Sensor self diagnosis and digital algorithm for signal conditioning.
Highly immune to false alarms.
Low Power consumption.

Automatic ZERO and SPAN adjustment
No user adjustment are required.
4-20 mA analogic output or RS485 output.
"One Man" calibration procedure.
Small size.

MAIN SUBSTANCES LIST

SUBSTANCES	DESCRIPTION	Prod.cod.
Methane	General purpose catalytic sensor for fixed detecting systems range 0-100%L.E.L.	PK4/101/...
L.P.G.	General purpose catalytic sensor for fixed detecting systems range 0-100%L.E.L.	PK4/102/...
Gasoline Vapor	General purpose catalytic sensor for fixed detecting systems range 0-100%L.E.L.	PK4/110/...
Hydrogen	General purpose catalytic sensor for fixed detecting systems range 0-100%L.E.L.	PK4/127/...
Carbon Monoxide	Electrochemical cell for toxic gases range 0-300 ppm.	PK4/320/...
Nitric Oxide	Electrochemical cell for toxic gases range 0-100 ppm.	PK4/383/...
Nitrogen Dioxide	Electrochemical cell for toxic gases range 0-30 ppm.	PK4/384/...

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SPECIFICATIONS

Sensors

Catalytic pellistor or electrochemical cell

Degree of protection
Short-term repeatability
Long-term repeatability
Accuracy (linearity)

IP65
±2% FSD 60 min.
±3% FSD 3 months.
±5% FSD

Environmental Specifications

EMC According to EN61000-4
Storage temperature -40 to 85 °C
Operating temperature -20 to 50 °C
Humidity range 90% R.H. n.c.

Output Configurations

Output	Description	Code
4-20 mA	Analog current loop	.../A
RS485	RS485 Modbus RTU serial loop	.../S

Mechanical Specification

Overall dimensions 120 x 65 x 45 mm
Weight 0.6 Kg.
Mounting 2x6 mm holes
Termination IP65 PG16 Terminal block

Electrical Specification

Supply Voltage 12-30 Vdc
Max. Power consumption 1 watt (Catalytic sensor)
Supply fuse 250 mA
Signal fuse 63 mA
Analog output 4-20 mA
Load 0-300 ohms
Cable Type 3 conductors cable (4-20mA)
4 conductors cable (RS485)

Part number description

Body	Description	Substance Code	Output Configuration Code
PK4/	IP65 Aluminium body	101 (methane)	A Analog 4-20mA loop
PK4/	IP65 Aluminium body	320 (Carbon Monoxide)	S Serial RS485 loop



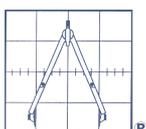
Example of Part number composition for a Park gas detector for methane with serial RS485 output:
cod: PK4/101/S



Example of Part number composition for a Twin-Park gas detector Carbon Monoxide + LPG with analogue 4-20mA output:
cod. TP4/320-102/AA

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