



# SPRKM-2R

Car park gas sensor

SPRKM-R are multifunctional sensors that detect air quality parameters (VOC and NOx) and exhaust gases (CO and LPG). They feature 24 VDC supply and Modbus RTU communication.

## **Key features**

- Suitable for harsh environments
- Selectable VOC, NOx, CO and LPG ranges via Modbus RTU
- Selectable VOC, NOx, CO and LPG alert levels via Modbus RTU
- Bootloader for updating the firmware via Modbus RTU communication
- Day / night detection via ambient light sensor with adjustable 'active' and 'standby' level
- RGB LED with adjustable brightness via Modbus register
- Modbus RTU (RS485)
- Replaceable CO and LPG sensor element
- Long-term stability and accuracy

	Te	chnical specifications
Supply voltage		24 VDC
Imax		81 mA
CO / LPG sensor element warm-up time	5 minutes	
Typical range of use	Temperature	-10—50 °C
	Relative humidity	0-95 % rH (non-condensing)
	CO	0-1.000 ppm
	LPG	300—10.000 ppm
	NOx	1—500 index
	VOC	1-500 index
Accuracy		
	CO	± 5% (range 0—1.000 ppm)
Protection standard		IP54 (EN 60529)

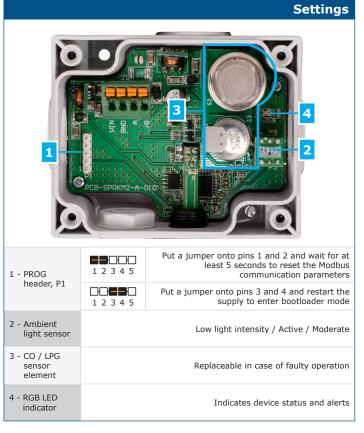
		Article codes
	Supply	Connection
SPRKM-2R	24 VDC	Terminal block

#### Area of use

- Monitoring gas concentration in underground and multi-storey parking garages and loading docks
- Ventilation control based on VOC and NOx and vehicle exhaust fumes CO and LPG
- Suitable for indoor use (e.g. garages, car parking, kitchens, and warehouses)

	Wiring and connections
VIN	Supply voltage 24 VDC
GND	Ground
Α	Modbus RTU communication, signal A
/B	Modbus RTU communication, signal /B
Connection	Spring contact terminal blocks, cable cross section: 1,5 mm²





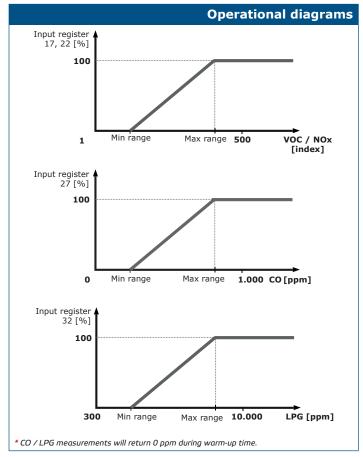
	LED indications
solid on	SPRKM-2R starting up
blinking	Sensor fault
blinking	CO / LPG sensor warming up
solid on	measured value within range
solid on	measured value higher than alert 1
solid on	measured value higher than alert 2

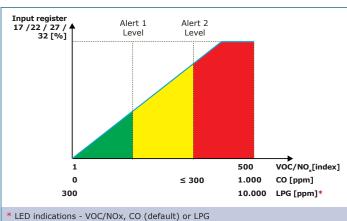




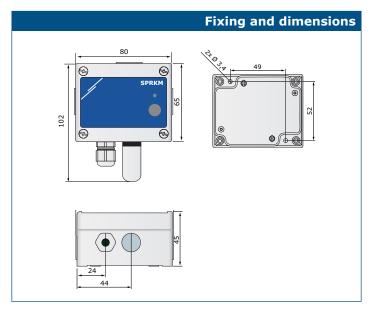
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Global trade item numbers (GTIN)		
Packaging	SPRKM-2R	
Unit	05401003018835	
Box	05401003504352	
Pallet	05401003701454	



## **Standards**

- - EN 61010-1:2010 Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements

  - EN 60529:1991 Degrees of protection provided by enclosures (IP Code) Amendment AC:1993 to EN 60529
- EMC Directive 2014/30/EC:
  - EN 61000-6-1:2007 Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity for residential, commercial and light industrial

  - environments
    -EN 61000-6-3:2007 Electromagnetic compatibility (EMC) Part 6-3: Generic standards Emission standard for residential, commercial and light-industrial environments Amendments A1:2011 and AC:2012 to EN 61000-6-3
    -EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use EMC requirements Part 1: General requirements
    -EN 61326-2-3:2013 Electrical equipment for measurement, control and laboratory use EMC requirements Part 2-3: Particular requirements Test configuration, operational conditions and performance criteria
- RoHs Directive 2011/65/EC
- WEEE 2012/19/EC

