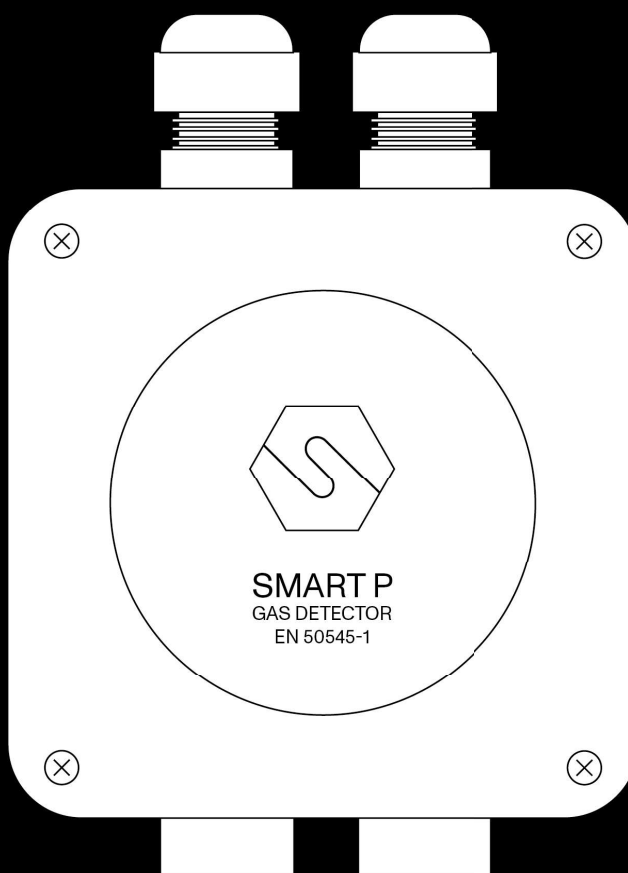


SMART P-2

Gas detection in car parks



Datasheet





The SMART P-2 gas detector is designed to be installed in car parks and simultaneously detect CO and NO₂ gases or CO and petrol vapors. It is compliant with the EN 50545-1 standard, which defines the requirements for the detection of CO and NO₂ in car parks and tunnels.

For the detection of toxic gases (CO and NO₂) the electrochemical cell is used and is housed in the polycarbonate head. The catalytic sensor is used to detect petrol vapors, which guarantees excellent linearity up to 100% LFL. This sensor is placed in an aluminum head, which can be removed with a maximum distance of 1.5m. The EN 50545-1 standard describes the values of the alarm thresholds for CO and NO₂, moreover the activation of the alarms is a function of the time-weighted average of the detected gas concentration.

The SMART P-2 has a 12-24 Vdc power supply and an RS485 digital signal output. The detectors are housed in polycarbonate enclosures complete with two M20 cable glands.

Sensor	
Application	Car parks
Sensing element	Catalytic sensor for petrol vapours Electrochemical cell for CO and NO ₂
Predicted sensor lifetime	Catalytic: 4 / 5 years EC: 2 / 3 years
Gas detected	Petrol vapours, CO, NO ₂
Fullscale	Petrol vapours: 0 - 100% LFL CO: 0 - 300 ppm, NO ₂ : 0 - 30 ppm
Electrical data	
Power supply	12-24 Vdc
Output	RS485 serial output
Absorption	S2400CO-ND: 32 mA at 24 Vdc S2400CO-VB: 63 mA at 24 Vdc
Optical indications	-
Acoustic indications	-
Hall effect sensor	-
Environmental conditions	
Storage temperature	0 / +20°C up to six months
Operating temperature	-20 / +50°C
Operating humidity	15 / 90 %RH



External case

Material	Enclosure: Polycarbonate Sensor head: Polycarbonate or aluminum
Dimensions	Box: 100 x 100 x 52 mm Cover: 105.8 x 105.8 x 7.8 mm
Weight	250 g
Cable entries	2 x M20
IP grade	IP55
Remote head cable length	1.5 m

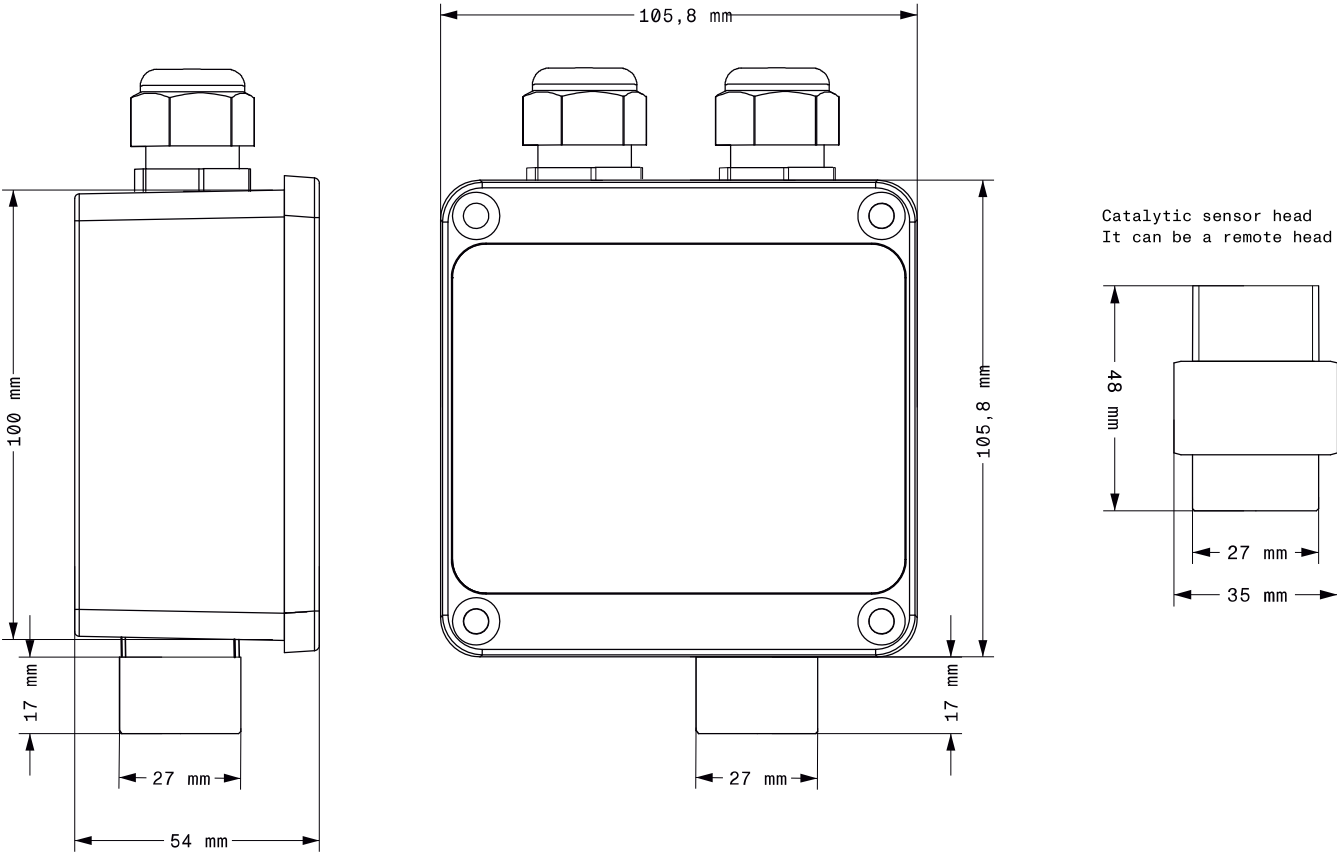
Compliance

EMC	EN 50270:2015
Car park standard	EN 50545-1:2011 + A1:2016

Product codes

S2400CO-ND	CO (0-300 ppm) and NO ₂ (0-30 ppm) gas detector
S2400CO-VB	CO (0-300 ppm) petrol vapours (0-100% LFL) gas detector

Mechanical drawings



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