SMART P-1

toxic gas detection in car parks

The SMART P-1 gas detector is designed to be installed in car parks. 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 these gases, the electrochemical cell is used and it is housed in the polycarbonate head. The EN 50545-1 standard defines 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.

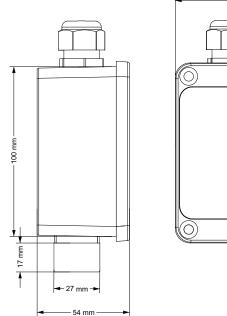
The SMART P-1 has a 12-24 Vdc power supply and an RS485 digital signal output. The polycarbonate enclosure has a total size of 106 x 117 x 54 mm, on the upper side it has two M20 cable glands.

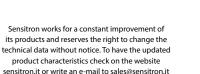


Sensor		
Application	Car parks	
Sensing element	Electrochemical cell	
Predicted sensor lifetime	EC: 2 / 3 years	
Gas detected	CO, NO ₂	
Fullscale	CO: 0 - 300 ppm NO ₂ : 0 - 30 ppm	
Electrical data		
Power supply	12-24 Vdc	
Output	RS485 serial output	
Absorption	32 mA at 24 Vdc	
Optical indications	-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

External case		
Material	Enclosure: Polycarbonate Sensor head: Polycarbonate	
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	
Compliance		
EMC	EN 50270:2015	
Car park standard	EN 50545-1:2011	
Product codes		
S2398CO	CO (0-300 ppm) gas detector	
S2399ND	NO ₂ (0-30 ppm) gas detector	

Mechanical drawings







105,8 mm

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17 mm

05,8 mm

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