SMART3-R

with electrochemical cell

SMART3-R is developed to detect different gases in non classified areas, as machinery rooms and laboratories. An electrochemical cell is used to detect toxic gases, due to the optimal performance in these applications. 4 smart LEDs illuminate the transparent ring to describe the detector status and an internal buzzer is activated in alarm and fault conditions. The SMART3-R gas detector has a standard 12-24 Vdc power supply, but a 220 Vac version can be supplied. The gas detector has three relay outputs, an RS485 serial communication and an analogue 4-20 mA output (not in 220 Vac version).

The polycarbonate case has a global size of 130 x 130 x 74 mm. The box has 2 entries with M20 cable glands. On the sides there are pre-formed guides that can be drilled to add up to 6 M16 cable glands.

The gas detector can be equipped with a remote head connected with a RJ12 6P6C cable.



Sensor	
Application	Machinery rooms, laboratories and non-classified areas
Sensing element	Electrochemical cell
Predicted life sensor	2 / 3 years
Gas detected	$\begin{array}{l} O_2 \ [0\text{-}25\% \ Vol], CO \ [0\text{-}500 \ ppm], SO_2 \ [0\text{-}20 \ ppm], NH_3 \\ [0\text{-}100/200/1000 \ ppm], Cl_2 \ [0\text{-}20 \ ppm], \\ H_2 S \ [0\text{-}50 \ ppm], , NO_2 \ [0\text{-}20 \ ppm] \end{array}$
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Product codes		
S4593O2	Oxygen gas detector (0 - 25% Vol), 12-24 Vdc	
S4595CO	Carbon moxide gas detector (0 - 500 ppm), 12-24 Vdc	
S4597AM	Ammonia gas detector (0 - 100 ppm), 12-24 Vdc	
S4598AM	Ammonia gas detector (0 - 200 ppm), 12-24 Vdc	
S4599AM	Ammonia gas detector (0 - 1000 ppm), 12-24 Vdc	
S4634CL	Chlorine gas detector (0 -20 ppm), 12-24 Vdc	
S4601HS	Hydrogene sulphide gas detector (0 - 50 ppm), 12-24 Vdc	
S4630SD	Sulphur dioxide gas detector (0 - 20 ppm), 12-24 Vdc	
S4632ND	Nitrogen dioxide detector(0 -20 ppm), 12-24 Vdc	
	Add "-220" to get the 220 Vac version	

Add "-RH" to get the version with remote head

Add "-220-RH" to get the 220 Vac version with remote head

Electrical data

Power supply	12-24 Vdc or 90-240Vac
Signal output	3 relays; RS485 serial output, 4-20 mA analogue out-

put (only for 12-24 Vdc version)

60 mA at 24Vdc Dissipated power Relays contact rating 1.0 A at 30 Vdc **Optical indications** 4 smart LED Acoustic indications Buzzer 63 dB @1mt

Remote head cable RJ12 6P6C

Environmental conditions

0 / +20°C up to 6 months Storage temperature

Operating temperature -30 / +50°C

Operating humidity 15 / 90% RH non condensing

External case

Material	Polycarbonate
Dimensions	Box: 120 x 120 x 52 mm

Cover: 130 x 130 x 22 mm Remote head box: 106 x 106 x 56 mm

Maximum length of remote head's cable: 5 m

Detector: 450 g Weight

Remote head: 300 g

2 entries with M20 cable glands Cable entry

6 optional entries for M16 cable glands

IP Grade IP42

Compliance

EMC EN 61000-6-3:2007 + A1:201; EN 50270:2015

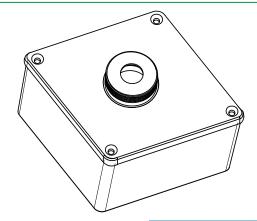
Electrical safety (90-240 Vac version)

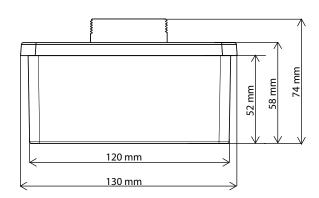
Refrigeration Standards EN 378-3; EN 14624; EN 50676; IEC 60335-2-40 An-

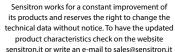
EN 61010-1: 2010 / A1: 2019

nex LL; ISO 5149-3; F-Gas Regulation

Mechanical drawings









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