

## Fixed Gas Detector

**Type: SKS100-X-XX      Stainless Steel 316L**

**SKS100** range fixed Gas Detectors are multifunctional Intelligent gas detection instrument which adopts high performance detection devices and microcomputer control technology.

The real display as well as buzzer and flashing light are integrated.

**SKS100** gas detectors convert the measurement gas concentration into electronic signal and remote transmission, using 4-20 mA, or RS485 outputs, with long transmission distance and anti-jamming.

These detectors are EX approved SIL2 and SIL3 certified IP67 with high temperature and humidity resistance suitable for harsh environments.

**SKS100** range fixed Gas Detectors can be installed in Oil, Gas, Petrochemical, steel, mines, chemical and power plants and multiple other industries.



# IP67



## Features

- LCD/LED digital display of gas concentration and working status
- Temperature compensation and automatic zero correction capability
- Sensor fault self test, two alarm levels with the output relay
- Long Life, high sensitivity, Low drift, stable and reliable
- RS485 output to upload data to PLC, DCS, PC
- Adjustable Detection range accuracy
- Easy calibration by Remote Control
- Alarm and fault log function.



**PHONE** 0098 21 8873 38 12-3  
**FAX** 0098 21 8876 44 55  
**WEB** [www.sariak.com](http://www.sariak.com)  
**EMAIL** [info@sariak.com](mailto:info@sariak.com)

**Central Office:**  
No.24, 12th St, Niloofar St,  
Apadana Ave, Tehran- Iran  
P.O.Box 16315-173

## Technical Parameters

Detection Principle: Catalytic Combustion, electrochemical Infrared, Semiconductor

Gas type: Flammable, Liquid Vapor TVOL, Toxic, Oxygen

Sampling Mode: Natural Diffusion

Detection Range: 0~100% LEL

Measurement error:  $\pm 3\%$  LEL

Working Temperature:  $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Relative humidity:  $\leq 95\%$  non-condensing

Ex Group: II 2G Exd IIC T6 Gb

Protection glass: IP67

Power: DC24V (18-32 VDC)

Output signal: 4-20mA, RS485

Data transmission range:  $\leq 1500\text{m}$

Dimensions: 220mm x 190 mm x 90 mm

Weight: Appx 3.0 Kg

Housing Material: Stainless Steel 316L

Sensor body: Stainless Steel 316L

Gas detected	Measuring Range	Optional Range	Resolution Ratio	Response Time
LEL -combustible gas	0-100%LEL	0-100%VOL (Infrared or catalytic )	1%LEL/1%vol	$\leq 10\text{s}$
carbon monoxide	0-1000PPm	0-500/2000/5000PPm	0.1/1PPm	$\leq 10\text{s}$
TVOC	0-100PPM	0-100PPM	0.1PPm/1PPM	$\leq 15\text{s}$
hydrogen	0-100%LEL	0-1000PPM	1%LEL/1PPM	$\leq 15\text{s}$
natural gas	0-100%LEL	0-100%LEL	1%LEL	$\leq 10\text{s}$
Oxygen-O2	0-30%VOL	0-30%、0-100%VOL	0.1%vol	$\leq 10\text{s}$
ozone	0-10PPm	0-20、100PPm	0.01PPm/0.1PPM	$\leq 15\text{s}$
hydrogen sulfide-H2S	0-100PPm	0-50、200、1000PPm	1/0.1PPm	$\leq 10\text{s}$
Methane-CH4	0-100%LEL	0-100%VOL	1%LEL/1%vol	$\leq 10\text{s}$
fluorine	0-10PM	0-1、10PPM	1/0.1PPm	$\leq 15\text{s}$
hydrogen chloride	0-20PPm	0-20/50PPm/100PPM	0.01/0.1PPm	$\leq 15\text{s}$
Nitrogen-N2	0-30%VOL	0-30%VOL、100%VOL	0.1%LEL/1PPM	$\leq 10\text{s}$
hydrogen	0-100%LEL	0-1000PPm	1%LEL/0.1PPm	$\leq 15\text{s}$
chlorine	0-20PPm	0-10、100PPm	0.1PPm	$\leq 15\text{s}$
ammonia gas	0-100PPm	0-50、500、1000PPm	1/0.1PPm	$\leq 15\text{s}$

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