# Gas sensor KSIM 1260 for detection of Sulfur Hexafluoride SF<sub>6</sub>



#### **Mode of operation**

The KSIM 1260 is a high quality infra red Sulfur Hexafluoride gas detector designed to operate with KIMESSA or third party control panels.

The infra red sensor technology is diffusion based and Sulfur Hexafluoride specific, housed in a robust metallic enclosure and designed for one-person calibration.

The versatile KSIM 1260 outputs allow for user selection of 0-20mA, 4-20mA, 0-10Vdc and digital BUS. The BUS option is used in conjunction with the addressable KIMESSA CANline-32-channel gas monitor panel, incorporating data logging and multi-optional programming capability. The  $SF_6$ -detector is available with a linearised measuring range from 0...1000 ppm (0.1 Vol. %) up to 0...5.0 Vol. % and its output signal is temperature compensated from -30° C to +70° C.

A novel feature on the KSIM 1260 facilitates direct measurement of the gas level via a 3.5mm jack connection, enhancing the overall flexibility of the SF<sub>6</sub> sensor.

The KSIM 1260 is also designed for use with a hand held optical calibration tool called the CRC – Calibration Remote Control, permitting calibration of remote SF<sub>6</sub> sensors.

## **Technical specifications**

Measuring range:	01000 ppm/05 Vol. $%$
	(others on request)
Response time t 90:	< 90 seconds
Operating temperature:	-30 °C +70 °C
Start up after reconditio	ning: maximum 1 h
Pressure range:	atmospheric ± 10%
Air humidity:	595%
Location sensitivity:	none
Life-span at 20 °C:	depends on the application
Protection class:	IP 54
Weight:	550 gr
Current consumption:	maximum 60 mA
Output signal analogue:	420 mA/ 020mA/
(selectable with jumper)	010 VDC/ 210 VDC
Cable analogue:	3-core cable,
	shielded, 3x1.00m <sup>2</sup>
Output signal BUS (digite	•
Cable BUS (digital):	4-core cable,
	shielded, 4x1.00m <sup>2</sup>

## Cross sensitivity to other gases

concentration	display on the	
of the test gas	SF <sub>6</sub> -Detector	
100 ppm	•••	
50 ppm		
5000 ppm		
250 ppm		
5000 ppm	•••	
100 ppm	•••	
<sub>2</sub> S 50 ppm		
20 ppm		
48 ppm	•••	
90 ppm		
	of the test gas 100 ppm 50 ppm 5000 ppm 250 ppm 5000 ppm 100 ppm 100 ppm 25 ppm 48 ppm	

#### **Inspection (Maintenance)**

Annual calibration is advised (depending on the application). The **calibration gas** should be 75% of the measurement range, and must contain synthetic air as the carrier gas.

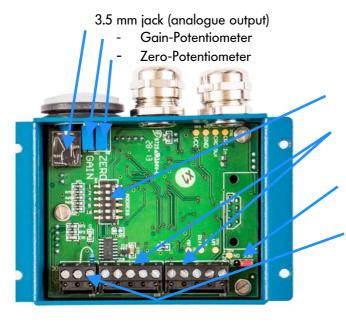
16.0...30.0 VDC

#### **Dimensions**

Length: 110 mm With: 95 mm Height: 68 mm

## **Electronic**

Supply voltage:



Dip-Switch for BUS-address

**BUS-connectors** 

BUS end-resistor

Connector for:

4..20mA/0..20 mA/0...10 VDC/2...10 VDC

1 = V-

2 = Signal

3 = +24VDC