

## 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<sub>6</sub>-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:	0...1000 ppm/0...5 Vol. % (others on request)
Response time $t_{90}$ :	< 90 seconds
Operating temperature:	-30 °C ... +70 °C
Start up after reconditioning:	maximum 1 h
Pressure range:	atmospheric $\pm$ 10%
Air humidity:	5...95%
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: (selectable with jumper)	4...20 mA/ 0...20mA/ 0...10 VDC/ 2...10 VDC
Cable analogue:	3-core cable, shielded, 3x1.00m <sup>2</sup>
Output signal BUS (digital)	CAN-Bus
Cable BUS (digital):	4-core cable, shielded, 4x1.00m <sup>2</sup>
Supply voltage:	16.0...30.0 VDC

## 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.

## Cross sensitivity to other gases

Test gas	concentration of the test gas	display on the SF <sub>6</sub> -Detector
Ammonia NH <sub>3</sub>	100 ppm	...
Chlorine Cl <sub>2</sub>	50 ppm	...
Carbon Dioxide CO <sub>2</sub>	5000 ppm	...
Carbon Monoxide CO	250 ppm	...
Propane C <sub>3</sub> H <sub>8</sub>	5000 ppm	...
Sulphur Dioxide SO <sub>2</sub>	100 ppm	...
Hydrogen Sulphide H <sub>2</sub> S	50 ppm	...
Nitrogen Dioxide NO <sub>2</sub>	20 ppm	...
Nitric Oxide NO	48 ppm	...
Hydrogen H <sub>2</sub>	90 ppm	...

## Dimensions

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

## Electronic

