

# SANCO

Fire Protection and Safety Technology

## MGD-3X IRC4 (Infrared Smart Flammable Gas Detector)

This manual gives You all the instructions for an appropriate use. Read it carefully before using the device.

Detection is guaranteed 36 months from the supply date.

This guarantee, whereas applicable, is ex-work and is only related to the replacement of those parts which, according to the supplier are faulty, and the work for it.

In case of malfunctions, please inform the supplier or the authorized distributor, communicating the kind of problem and the device series number.

Send the device, for a revision, free port, only after the supplier or the authorized distributor allowance.



This revised device will be sent back to the customer carriage forward. Read carefully the guarantee conditions in section 5 of this manual.

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ISO 9001

OHSAS 18001



## 1. Introduction

The smart gas detection device series MGD - 3X; has been designed for fixed applications in the industrial areas.

Its rugged structure is particularly indicated also in severe environments, According to the customer specific requirements, this device can be equipped with different types of sensors for the detection, for example of toxic or flammable gases or oxygen.



## 2. Detection device composition

There are two screws on the display, when opening them the termination point is available, The left one is positive power, the middle one is negative power and the right one is signal.

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## 3. Technical Specifications

### Sensor Technical Data:

Monitored gas	Methane
Sensor type	Infrared
Sensor enclosure	SS316L
Operating temperature	Max. 180°C

### Transmitter Technical Data:

Electronics	16 bit microprocessor
Display	3 digits seven segment type, digital
Output signal	4~20 mA, source type
Input power	10~32 Vdc
Sensor response time	<0.5 sec
Accuracy and linearity	<1% full scale value
Operating temperature	-40°C ~ +85°C
Humidity range	0 ~ 95% RH
Certification	ATEX II 2G Exd IIC T6

### Mechanical Features:

Body material	SS314 or Aluminum dye casting (aluminum body anodised & epoxy painted)
Protection degree	IP66