MGS (Gas Sensor)

The Gas Sensor (MGS) is a state-of-the-art fixed gas detector which can detect a wide range of different gases. The sensors can be used on a stand-alone basis or integrated into Controls or Building Management Systems (BMS)

Application :

- Refrigerant gases all refrigerant gases including: Ammonia, Carbon Dioxide, Hydrocarbons, Halocarbons - HFCs, HCFCs, CFCs.
- Combustible gases such as: Methane, LPG, Propane, Butane, and Hydrogen
- Toxic gases such as: Carbon Dioxide and Ammonia in refrigeration, Hydrogen Sulphide in sewage treatment and Carbon Monoxide in underground car parks
- Volatile Organic Compounds such as: Acetone, Benzene, Carbon Tetrachloride, Chloroform, Ethanol, Toluene, Trichloroethylene.

FEATURES

Technical Specification	MGS Standard
Power Supply	12/24V AC/DC ± 20%(IR 24V AC/DC)
Power Consumption	EC (24V): 45.7mA SC: 91mA
Power Monitoring*	Green LED
Visual Alarm*	Red LED
Audible Alarm*	Sounder, enabled/disabled
Fault monitoring	Red LED ON – Green OFF
Fault state	0-1V, 0-2mA
Analogue Outputs	0-5V, 1-5V, 0-10V, 2-10V, 4-20mA
Digital Outputs*	1 Relay rated 1 Amp/24 V d.c /120 V a.c
	Selectable delay: 0,1,5,10min
IP Rating	IP41 OR IP66
Dimensions and Weight	86 x 142 x 53 mm 180 g
Standard Compliance	CE Ex WEEE RoHS CE, EXD

Sensor Information	Electrochemical EC	Semiconductor with filter (multigas) SC	Infrared IR
Typical Measurement Range	0-1,000 ppm	10-1,000 ppm	ppm - %
Temperature Range	A: -20°C to +40°C B: -40°C to +40°C	-40°C to +50°C	-40°C to +50°C
Humidity Range non condensing	0 to 95%	0 to 95%	0 to 95%
Typical Sensor Life	3 yrs	5-8 yrs	8-10yrs
Alarm threshold T50	19 sec	76 sec(filtered)	25 sec
T90	47 sec	215sec(filtered)	90sec
Recovery Time	900 sec	600 sec	210 sec
Linearity	Linear over calibrated range		
Calibration Requirements	Local regulations may specify the procedure and frequency required. Standards generally require at least annual testing or calibration. Refer to Murco for instructions. Semiconductor sensors are non-selective, but calibrated to a specific gas.		