

**MicroGas  
In-Mask Gas Detector  
Breathing Air Safety**



Leading  
manufacture  
of instrumentation  
since  
1997

ERIS presents innovative solution for gas mask's and respirator's filter performance monitoring as well as breathing air quality in-mask.

## Application

The MicroGas detector is fixed inside the gas mask to monitor case of harmful gases come through the filter. The MicroGas In-Mask detector will detect any harmful fumes and warn the user by notification of light signal. This signal indicates that filter element to be replaced.

MicroGas detector  
(option of placement)



- Continuous monitoring of breathing air in mask
- Alarms on harmful gas presence
- Notification of mask's filter replacement decontamination
- Secured safety at hazardous conditions
- Budget saving solution for mask replacement out of scheduling
- Alarm reset by supervisor key
- Maintenance-free operation
- Fast response of detection
- Waterproof and shock absorption housing

## Benefits of MicroGas application

When using a full face mask, half face mask or respirator, it is crucial to monitor the remaining life of the filter element that depends on pollutant concentration or type. Normally, the filter elements are replaced as soon as the gas mask users recognize any specific odour coming through the filter. Such method can hardly be called reliable as it involves the risk of poisoning the gas mask users. In addition, there are odourless gases, such as carbon monoxide, and in this case the filter operability is determined by its weight. Such method is also rather unreliable for estimation of the filter elements efficiency. On the other hand, rather commonly the filters are replaced ahead of time due to the users' recognition of specific odours. Tests of the filter elements withdrawn from service revealed that every second filter worked properly and did not need to be replaced. Therefore, the exact estimation of the filter remaining life has an important economic justification.

## Basic

Sampling method	Diffusion sampling
Power supply	The battery is designed for the entire service life
Operation temperature	+ 10 °C... + 50 °C
Housing material	Rubbered ABS
Weight	40 g
Service life*	1 year

\* Maintenance-free operation for one year and requiring replacement afterward. Operation performance is not ensured by manufacturer later.

## Notifications

Critical battery voltage	5 flashes every 6 seconds
Alarm (Threshold 1)	1 flash every 6 seconds
Alarm (Threshold 2)	2 flashes every 6 seconds
Alarm reset after threshold notification	Lights on for 1 second

## List of detected gases

Carbon monoxide CO	0-1000 ppm
Ethanol C <sub>2</sub> H <sub>5</sub> OH	0-1000 ppm
Hydrogen sulphide H <sub>2</sub> S	0-20 ppm
Ozone O <sub>3</sub>	0-20 ppm
Chlorine Cl <sub>2</sub>	0-20 ppm
Nitrogen oxide NO <sub>2</sub>	0-5 ppm
Sulphur SO <sub>2</sub>	0-20 ppm



The MicroGas notifies of mask's filter replacement maintaining personal safety.  
Save budget by reducing filter consumption with filter replacement on time  
due real contamination and not a scheduling.

## Highlighted products



### Fixed gas detectors ERIS



Advant 2/4



DGS ERIS PID



DGS ERIS-230 FR



DGS ERIS-230



DGS ERIS-210



DGS ERIS-210-RF

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