



SILAREX - Flow^{EVO}

Basic^{EVO} - Transmitter^{EVO}

**HIGHEST PERFORMANCE
FOR PROCESS
AND ENVIRONMENT**



Innovative gas sensors

smartGAS.

Gas Sensors

SILAREX - The multichannel Solution

SILAREX is a Gas Sensor with up to three channels plus reference to measure different gases in a mix at same time, pressure and cross compensated.

Flow^{EVO} - The flow Solution

The Flow^{EVO} product line supports a wide range of gas measurement with high accuracy and long lifetime and ultra low power.

Basic^{EVO} - The diffusion Solution in Air

Basic^{EVO} invented to measure by diffusion directly in Air to ensure our Air quality and safe environment.

Transmitter^{EVO} - The ready to use Air Control

The Transmitter^{EVO} is the logical consequence of Basic^{EVO} for installation companies easy to use.

Application Overview

Measurement for zero emission and zero carbon to save our earth.

Emission Control in Industrie, Power Plants, Cement Plants, Vehicles and Marine.

Water Analyzing for TOC and COD as well as Solids Analysis.

Process Control in Industrie for steel, chemical, semiconductor.

Air separation as well as air quality control and workplace safety.

Bio- and Pharmaceutical technology as well as fruit ripeness control.

State and Power Grids, power plants and stations to support leak and quality control.

Cooling and A/C leak detect in Cold storage warehouses, public buildings as well as hotels and private houses.

High performance measurement

Wide range of gases

Low detection limits

High T90

Very low maintenance

Low Power Consumption

Easy to integrate

Optimized cuvette length to ensure smallest size

Very low volume



Technical specifications

Options

Customized in Ranges and Gas Types
Ultra Low Noise Filtering
Passive PTC Heated
Customized Software

Gas flow and ambient

0.1 .. 1l/min (except Diffusion)
Operating Temperature 0-50°C
Freone -20 .. 40°C
800..1150hPa env. Pressure
0..95% Rel. env. Humidity

Metrological specifications

Ranges 100ppm to 100Vol.%
Temperature compensated
T90 Time down to 2sec
Cross sensitivity Compensated(Flow^{EVO} optional)

Power Supply 3.3 .. 6VDC
24VDC SILAREX and Transmitter^{EVO}
Digital Output Autobaud and Autoframe
Active Heated (Flow^{EVO} optional)
Integrated Filter functions (Silarex)
Highly Selective
Standard ModBus Protocol

Overview of Gases

Flow Mode	Diffusion in Air	
CO ₂	CO ₂	R410a
CO	CO	R1234yf
CH ₄	CH ₄	SF ₆
C _n H _m	C ₃ H ₈	R1234ze
SO ₂	R23	R407f
NO	R123	R448a
CH ₃ Br	R134a	R449a
SO ₂ F ₂	R22	R513a
N ₂ O	D125	R32
SF ₆	R507	R455a
CF ₄	R404a	R515b
C ₄ F ₇ N	R407a
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About smartGAS

smartGAS Mikrosensorik GmbH is a dynamic company specialized in the development, the production and the marketing of innovative gas sensors and gas analyzing solutions. smartGAS develops, produces and sells both OEM and customized sensor systems. Most of the products are based on infrared absorption (NDIR) and photoacoustic spectroscopy (PAS), which allows selective detection of a gas and accurate determination of its concentration. Recent developments have seen not only significant reduction in size but also an increase in the number of detectable gases. The sensors are used in applications such as fruit

ripening and storage, high voltage, emission monitoring, process control, refrigeration analyzers and monitoring, analytical appliances and process control.

The goal of smartGAS is to simplify the handling of gases using innovative technologies to protect the environment and to advance the safety for humans and equipment. Therefore we offer our standard products and customized solutions and provide support and assistance for the design in.

Ambitioned to make earth a safer place.

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