

# Sensores de gas H<sub>2</sub>S y accesorios



## Features

- Solid-state operation
- Highly selective -- does not respond to hydrocarbons
- Unaffected by over-range exposure
- Robust mechanical design
- Resistant to high humidity and wide range of ambient temperatures
- Specific sensors meet ISA-92.0.01 performance standard

## Benefits

- Functions in the harshest environments
- Low risk of false alarms
- Reduces need for sensor replacement
- Vibration and shock resistant
- Suitable for worldwide use
- Agency approved to strict performance standards

## Description

General Monitors hydrogen sulfide (H<sub>2</sub>S) sensors are solid state devices, designed and manufactured for long life and fast response. They are selective to H<sub>2</sub>S and remain unaffected by high concentrations of other substances like hydrogen, sulfur dioxide, and gasoline vapors, which are often present in facilities that process sour gas and crude oil.

A semiconductor device measures changes in electrical conductivity in a thin metal oxide film as a result of gas exposure. The change in conductivity is logarithmically correlated to the target gas concentration and used to supply a signal to the controller. The surface temperature of the film is maintained well above 100°C to reduce effects of ambient temperature, humidity and improve selectivity.

Metal oxide semiconductor (MOS) sensors are an essential component of General Monitors line of intelligent sensors and control card-based H<sub>2</sub>S detection systems. The sensors are easy to install and can be conveniently calibrated by using ampoules or disposable canisters of pre-mixed H<sub>2</sub>S with dry air. Several accessories extend the usefulness of these sensors by protecting them against water and dust or facilitating their installation in ducts and sampling systems.

A high tolerance to a broad range of temperatures and humidity enable these sensors to operate in rugged environments, as does their capacity to withstand exposure to high H<sub>2</sub>S concentrations over short periods.

The MOS sensors have been installed in extreme environments from the Saudi Arabian desert to the North Slope of Alaska.

Global sensor certifications include ATEX, CSA, FM, IECEx, and Russian approvals. Additionally, specific sensors conform to performance standard ISA-92.0.01.

## Applications

- Chemical Plants
- Compressor Stations
- Gas Turbines
- LNG Plants
- Oil and Gas Exploration and Production
- Oil Refining
- Sewage and Water Treatment Plants
- Sulfur Recovery Plants