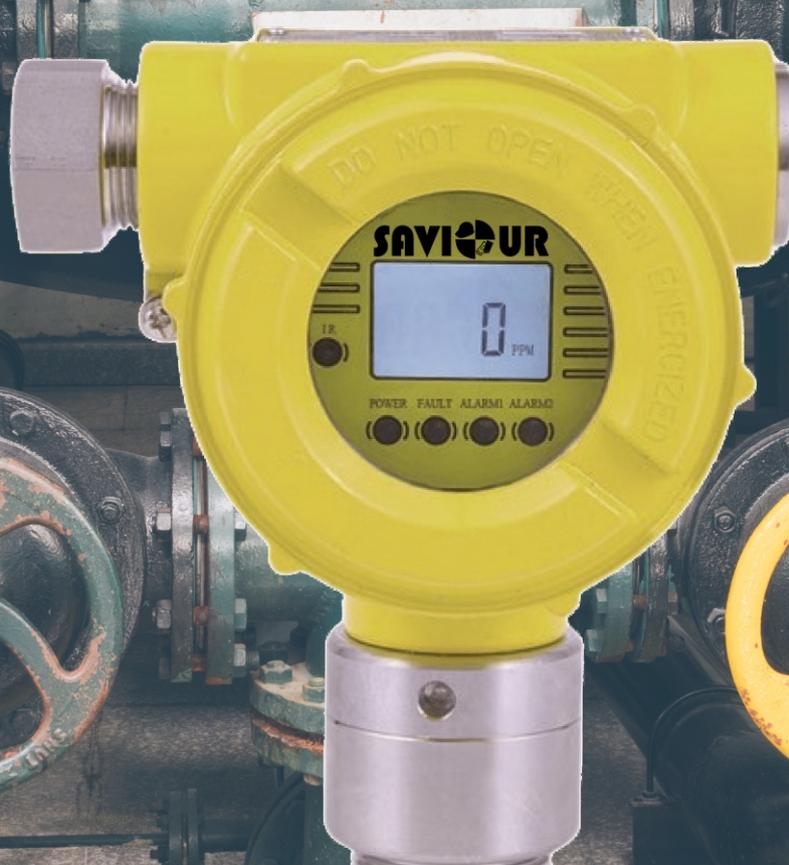# SAVIOUR®
Performing PPE

SAVIOUR GAS FAST

Model No.: GDSAV–AG210

www.suresafety.com

Sure Safety™
Complete Safety Solutions

Saviour Fixed Gas Detector

The Saviour Fixed Gas Detector is engineered to efficiently and reliably detect flammable gas, oxygen, and toxic gas across diverse industrial environments. Enhanced with cutting-edge gas sensors and fortified with IP66 protection, these detectors deliver swift response times and robust durability even in challenging conditions.

TECHNICAL SPECIFICATIONS

Toxic gas	Electrochemical, infrared, PID
Response Time	T90 ≤ 60/ 180S
Accuracy	±5% of Full Scale
Repeatability	±2% of Full Scale
Power Supply	18-28VDC (standard 24VDC)
Power Consumption	: ≤ 2W
Signal Output	4-20mA
Wiring	Three-wire
Operating Temperature	-20°C -60°C
Operating Humidity	10-95% RH (non-condensing)
Pressure	80-120 kPa
Enclosure Rating	Ip66
Body Material	ADC12 aluminum + 316L stainless steel
Weight	Approximately 1.45 kg
Dimensions	157 x 133 x 79 mm (H x W x D)

KEY HIGHLIGHTS

- **Advanced Gas Sensors:** Utilizes cutting-edge gas sensor technology for fast response and extended lifespan, ensuring enhanced safety and reliability.
- **IP66 Design:** Constructed with stainless steel and aluminum alloy materials, providing robust protection against environmental factors, making it suitable for challenging conditions.
- **LCD Display:** Features an LCD display with LED indicators for clear visualization of gas levels and system status.
- **Built-in Relays:** Includes three relay outputs and compatibility with optional sound-light alarm systems, allowing for customizable alarm configurations.
- **Remote Operation:** Offers complete control through a full English menu and remote operation capability, ensuring ease of use and flexibility.

- Extensive Gas Compatibility: Versatile application for monitoring over 300 types of both combustible and toxic gases, ensuring comprehensive safety coverage across various industrial settings.
- Accuracy Range: Provides accurate readings with precision ranging from ±3% of the reading to ±5% of the reading, enhancing reliability in gas detection operations.
- Detection Principles: Utilizes multiple detection principles including electrochemical, catalytic combustion, PID (Photoionization Detection), and Infrared, ensuring thorough gas detection capabilities.
- Sampling Methods: Supports both diffusion and pump suction sampling methods, offering flexibility in deployment while ensuring hassle-free maintenance and ease of use.
- Maintenance-Free Design: Requires minimal maintenance, ensuring convenient operation and reducing downtime, making it an ideal choice for busy industrial environments.
- Clear and Large View: Features a clear and large display for easy readability, coupled with a user-friendly interface, enhancing usability and facilitating quick interpretation of gas readings.
- Lightweight Construction: Designed to be lightweight, facilitating easy handling and installation, while its IP65 rating adds an additional advantage by providing protection against dust and water ingress.

APPLICATION

- Oil, Gas, and Solvents Industries
- Confined Spaces
- Fire and Rescue Operations
- Fire and Safety Departments
- Chemical and Pharmaceutical Industries
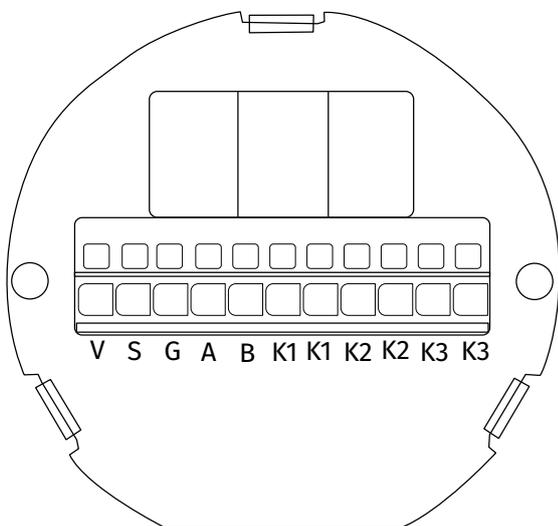- Paint and Pesticides Industries
- Food and Beverages

CERTIFICATION

- Compliance Ex db IIC T6 Gb
- Tested by notified body

Disclaimer:
All pictures, configurations, and parameters in this document are for reference only. Actual products may vary. Any differences are subject to the latest real products

WIRING

Terminals	Description
V	24V +
S	4-20mA signal output
G	24V -
A B	Rs485 signal output
K1	relay output for alarm - 1
K2	relay output for alarm - 2
K3	relay output for fault

CUSTOMIZED GAS RANGE

Gas	Measure range	Principle	Resolution
O2	0-30%vol	Electrochemical	0.1%vol
CO	0-1000µmol/mol	Electrochemical	1µmol/mol
H_2S	0-100µmol/mol	Electrochemical	1µmol/mol
CL_2	0-10µmol/mol	Electrochemical	0.1µmol/mol
So2	0-20µmol/mol	Electrochemical	0.1µmol/mol
NH_3	0-100µmol/mol	Electrochemical	1µmol/mol
NO	0-250µmol/mol	Electrochemical	1µmol/mol
NO_2	0-20µmol/mol	Electrochemical	0.1µmol/mol
HCL	0-30µmol/mol	Electrochemical	0.1µmol/mol
O_3	0-1µmol/mol	Electrochemical	0.01µmol/mol
C_2H_4O	0-20µmol/mol	Electrochemical	0.1µmol/mol
CH_2O	0-20µmol/mol	Electrochemical	0.1µmol/mol
PH_3	0-5µmol/mol	Electrochemical	0.1µmol/mol
H_2	0-1000µmol/mol	Electrochemical	1µmol/mol
F_2	0-1µmol/mol	Electrochemical	0.01µmol/mol
HF	0-10µmol/mol	Electrochemical	0.01µmol/mol
HCN	0-10µmol/mol	Electrochemical	0.01µmol/mol
$COCL_2$	0-1µmol/mol	Electrochemical	0.01µmol/mol
AsH_3	0-1/20µmol/mol	Electrochemical	0.01µmol/mol
SiH_4	0-50µmol/mol	Electrochemical	0.1µmol/mol
C_2H_3N	0-20µmol/mol	Electrochemical	0.1µmol/mol
CS_2	0-20µmol/mol	Electrochemical	0.1µmol/mol
C_2H_3N	0-20µmol/mol	Electrochemical	0.1µmol/mol
SF_6	0-1000µmol/mol	Infrared	1µmol/mol
CH_4	0-5%100%VOL	Infrared	0.1%VOL

CUSTOMIZED GAS RANGE

Gas	Measure range	Principle	Resolution
CO^2	0-5%100%VOL	Infrared	0.1%vol
C_7H_8	0-20µmol/mol	PID	0.1µmol/mol
C_8H_{10}	0-20µmol/mol	PID	0.1µmol/mol
C_6H_6	0-20µmol/mol	PID	0.1µmol/mol
$C_2H_4O_2$	0-1000µmol/mol	PID	1µmol/mol
VOC	0-20µmol/mol 0-1000µmol/mol	PID	0.1µmol/mol 1µmol/mol