



**ADOS**  
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**Instrumentation and Control**



**SINGLE-CHANNEL GAS WARNING SYSTEM**

# GWA 2000



**ADOS GmbH**

**Tel: +49 (0) 2 41 / 97 69 - 0**

**Instrumentation and Control**

**Fax: +49 (0) 2 41 / 97 69 - 16**

**P.O. Box 500 444 · 52088 Aachen · FRG**

**info@ados.de**

**Trierer Strasse 23-25 · 52078 Aachen · FRG**

**www.ados.de**

since 1997  
DIN EN ISO 9001  
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## Application

The single-channel gas warning system GWA 2000 continuously monitors the ambient air and provides an early warning of hazardous, explosive and non-combustible gases and vapours.

## Fields of Application

- Monitoring of heating systems
- Liquid gas stores rooms
- Laboratories
- Cold storage houses and air conditioning plants
- Plastic processing plants
- Chemical industries
- Paint manufacturing plants
- Concentration measurement of O<sub>2</sub>
- and many more

## Features

- Use of various types of measurement sensors
- Ready, Fault and Gas warning indicators
- Menu-aided operation, via 4 keys
- Integrated buzzer
- Three alarm thresholds individually adjustable from 10 to 100 % of test range
- Three floating alarm outputs for driving additional warning and control systems
- Floating contact connections for fault and mains failure
- Serial output, RS 232 for connecting a printer or a PC
- High degree of reliability
- Low energy consumption
- Plastic wall-mounted housing
- Easy installation
- Straightforward operation

## Measurable gases

Gas	Formula
Acetylene	C <sub>2</sub> H <sub>2</sub>
Alcohol	e.g. C <sub>2</sub> H <sub>6</sub> O
Ammonia	NH <sub>3</sub>
Butane	C <sub>4</sub> H <sub>10</sub>
Carbon dioxide	CO <sub>2</sub>
Carbon monoxide	CO
Carbon tetrachloride	CCl <sub>4</sub>
Chloroform	CHCl <sub>3</sub>
Ether	C <sub>4</sub> H <sub>10</sub> O
Helium	He
Hydrogen	H <sub>2</sub>

Hydrogen chloride	HCl
Methane (natural gas)	CH <sub>4</sub>
Neon	Ne
Oxygen	O <sub>2</sub>
Petroleum spirit	
Propane	C <sub>3</sub> H <sub>8</sub>
Toluene	C <sub>7</sub> H <sub>8</sub>
Xylene	C <sub>8</sub> H <sub>10</sub>

## Accessories

Signal Horn, Warning Light, Warning Banner, Ventilation Control, Test Meters, Plotter.

Additional accessories are available, depending on the system ordered.

## Technical Data

Sensors:	Infrared sensor Semiconductor sensor Heat reaction sensor Thermal conductivity sensor Chemical sensor
Measurement ranges:	CO: 0–300 ppm NO <sub>2</sub> : 0–30 ppm CH <sub>4</sub> : 0–100 % LEL CO <sub>2</sub> : 0–10 Vol % further ranges of request
Accuracy:	< 3 % f.s.d.
Ambient temperature:	-10 °C to +45 °C
Temperature effects:	< 3 % for a ± 20 °C change
Setting time (t <sub>90</sub> ):	< 60 s
Installation:	Wall-mounting
Protection class:	IP 54
Output signals:	RS 232 interface 3 Alarm relays 1 Fault relay Analog output 4 (0) – 20 mA
Relay rating:	230 V, 450 VA other voltages on request
Voltage supply:	230 V, 50 Hz 115 V, 60 Hz (optional) 24 V= (optional)
Power consumption:	14 VA
Dimensions (WxHxD):	200 x 160 x 90 mm
Weight:	approx. 1,6 kg