



ADOS
e s t . 1 9 0 0

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

eMail: info@ados.de

Trierer Strasse 23-25 · 52078 Aachen · FRG

www.ados.de

since 1997
DIN EN ISO 9001
ID: 0110071011



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
- ☒ Garages and tunnels
- ☒ Liquid gas stores rooms
- ☒ Laboratories
- ☒ Cold storage houses and air conditioning plants
- ☒ Plastic processing plants
- ☒ Chemical industries
- ☒ Paint manufacturing plants
- ☒ Concentration measurement of O₂
- ☒ 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 ₂ H ₂
Alcohol	e.g. C ₂ H ₆ O
Ammonia	NH ₃
Butane	C ₄ H ₁₀
Carbon dioxide	CO ₂
Carbon monoxide	CO
Carbon tetrachloride	CCl ₄
Chloroform	CHCl ₃
Ether	C ₄ H ₁₀ O
Helium	He
Hydrogen	H ₂

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

Zubehör

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

Additional accessories are available, depending on the system ordered.

Technical Data

Sensors:	Semiconductor sensor Heat reaction sensor Thermal conductivity sensor Chemical sensor
Measurement ranges:	CO: 0–300 ppm NO ₂ : 0–30 ppm CH ₄ : 0–100 % LEL CO ₂ : 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 ₉₀):	< 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