



SINGLE-CHANNEL GAS WARNING SYSTEM

GWA 2000



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Instrumentation and Control

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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 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 10–100% 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

Accessories

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:	115 V, 60 Hz 230 V, 50 Hz (optional) 24 V= (optional)
Power consumption:	14 VA
Dimensions (WxHxD):	7.87 x 6.3 x 3.5 inch
Weight:	approx. 3.53 lbs