



MULTI-CHANNEL GAS WARNING SYSTEM

GW 399



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Instrumentation and Control

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Application

The multi-channel gas warning system GW 399 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 storage rooms
- ☒ Laboratories
- ☒ Cold-storage houses
- ☒ Plastic processing plants
- ☒ Chemical industries
- ☒ Paint manufacturing plants
- ☒ Concentration measurement of O₂
- ☒ and many more

Features

- ☒ Use of various types of measurement sensor
- ☒ Direct warning status recognition, via different colors of the LC-Display background illumination
- ☒ Menu-aided operation, via 2 keys
- ☒ Three alarm thresholds individually adjustable from 5–100 % of the test range
- ☒ Three floating alarm outputs for driving additional warning and control systems
- ☒ Floating relay contacts
- ☒ Serial output RS 232 or RS 485
- ☒ LON[®]-Interface
- ☒ 4–20 mA current output
- ☒ Different housings are available e.g. 19" rack, panel mounting, wall-mounted housing
- ☒ Up to 10 units per rack
- ☒ 1 control unit configurable as master, for supervision of central alarms and communication control systems
- ☒ High degree of reliability
- ☒ Low current consumption
- ☒ Possibility of uninterruptible power supply

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	CH ₄
Neon	Ne
Oxygen	O ₂
Petrol	
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

Details as for control unit

Sensors:	Semiconductor sensor Heat reaction sensor Thermal conductivity sensor Chemical sensor Infrared sensor
Sensors input:	1 two-wire sensor (e.g. TOX 592) or 1 three-wire sensor (e.g. GTR 196)
Sensor supply:	20 V DC / 200 mA
Ranges:	Adaptable by software
Accuracy:	< 2 %, f.s.d.
Ambient temperature:	+14 °F to +104 °F
Temperature effects:	<2 % for a ±36 °F change
Installation:	Panel-mounting or Wall-mounting
Output signals:	Current output 4–20 mA RS 232 or RS 485 interface LON [®] -interface 3 Alarm relays, 1 Fault relay
Relay rating:	115 V, 450 VA other voltages on request
Voltage supply:	115V 60 Hz
Options:	230 V 50 Hz; 24 V DC; 12 V DC
Power consumption:	8 VA