ADOS®
est. 1900

Instrumentation and Control

MULTI-CHANNEL GAS WARNING SYSTEM

GW 399

Compact

Standard

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MULTI-CHANNEL GAS WARNING SYSTEM GW 399

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Application

The multi-channel gas warning system GW 399 continunosly 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 O_2
- 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
- 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 uninteruptible power supply

Measurable gases

Gas	Formula
Acetylene	C_2H_2
Alcohol	e.g. C_2H_6O
Ammonia	NH_3
Butane	C_4H_{10}
Carbon dioxyde	CO_2
Carbon monoxide	CO
Carbon tetrachloride	CCl_4
Chloroform	$CHCl_3$
Ether	$C_4H_{10}O$
Helium	He
Hydrogen	H_2
Hydrogen chloride	HCl
Methane	CH_4
Neon	Ne
Oxygen	O_2
Petrol	
Propane	C_3H_8
Toluene	C_7H_8
Xylene	C_8H_{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:	-10 °C to +40 °C
Temperature effects:	< 2 % for a ±20 °C change
Installation:	Panel-mounting or wall-mounting
Output signals:	Current output 4–20 mA RS 232 or RS 485 interface 3 Alarm relays, 1 Fault relay
Relay rating:	230 V, 450 VA other voltages on request
Voltage supply:	230 V 50 Hz
Options:	115 V 60 Hz; 24 V DC; 12 V DC
Power consumption:	8 VA

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