



ADOS
est. 1900

Instrumentation and Control



MULTI-CHANNEL GAS WARNING SYSTEM

MWVS 906



ADOS GmbH

Instrumentation and Control

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Application

The multi-channel gas warning unit **MWS 906** continuously monitors the ambient air and issues an early warning of gases and vapours that are dangerous to health, or when there is a danger of explosion, for non-combustible gases and vapours.

Fields of Application

Monitoring of:

- ☒ Heating systems
- ☒ Garages and tunnels
- ☒ Liquid gas storage plants
- ☒ Laboratories
- ☒ Cold-storage depots
- ☒ Plastic processing workshops
- ☒ Chemical industries
- ☒ Paint varnish manufacturers
- ☒ Concentration measurement of O₂
- ☒ and many more

Features

- ☒ 6-section keyboard and backlit 4-line LC-display for displaying actual values, half-hourly average values and fault messages in cleartext
- ☒ Ready for operation, fault and gas warning indicators
- ☒ Menu-assisted adjustment of equipment parameters via 6-section keyboard
- ☒ Three alarm thresholds for each sensor, independently adjustable from 5–100% of the measurement range, half-hourly average values, possibility for 24 h time-weighted averages (TLV)
- ☒ A maximum of 48 floating outputs for driving additional warning and control devices
- ☒ Floating change-over contact for faults, sirens and warning banners
- ☒ Serial output RS 232, for connecting a printer or PC
- ☒ 4-20 mA current interface as output signal
- ☒ Plastic, wall-mounting housing (IP 54)
- ☒ High degree of service reliability
- ☒ Low power consumption
- ☒ Easy installation
- ☒ Un-interruptible power supply (UPS) can be used

Examples of measurable gases

Gas	Formula
Acetylene	C ₂ H ₂
Ether	C ₄ H ₁₀ O
Alcohol	e.g. C ₂ H ₆ O
Ammonia	NH ₃
Petrol	
Butane	C ₄ H ₁₀
Hydrogen chloride	HCl
Helium	He
Carbon dioxide	CO ₂

Carbon monoxide	CO
Methane (natural gas)	CH ₄
Neon	Ne
Propane	C ₃ H ₈
Oxygen	O ₂
Toluene	C ₇ H ₈
Hydrogen	H ₂
Xylene	C ₈ H ₁₀

Accessories

Signal horn, warning lights, warning banner, plotter, stand-by power supply unit UPS 2000 24 V.
Further accessories will be available, according to the proposed measurement tasks.

Technical Data

Sensor inputs:	16 two-or-three-wire sensors (e.g. ADOS GTR 196) with current interface, 4–20 mA
Sensor supply:	24 VDC / 2 A
Measurement ranges:	CH ₄ 0–100 % LEL LPG 0–100 % LEL H ₂ 0–100 % LEL NH ₃ 0–1000 ppm CO ₂ 0–4 Vol % CO 0–300 ppm NO ₂ 0–30 ppm O ₂ 0–25 Vol % further ranges on request
Digital inputs:	1 input for cancelling the horn (siren)
Digital outputs:	max. 48 relays for alarms 1 fault relay 1 service relay 1 horn relay 1 warning banner relay All outputs are floating change-over contacts rated at max. 250 V / 4 A
Standard output signals:	Analog output 4–20 mA Serial interface RS 232
Voltage supply:	115 V / 60 Hz 230 V / 50 Hz (optional) 24 V / DC (optional)
Power consumption:	max. 60 VA
Ambient temperature:	14°F to +113°F
Dimensions (WxHxD):	15.4 x 10.6 x 6.3 inch
Weight:	approx. 11 lbs
Protection type:	IP 54 to DIN 40050