



ADOS
est. 1900

Instrumentation and Control



MULTI-CHANNEL GAS WARNING UNIT

MWVS 906



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since 1997
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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-line sensors (e.g. ADOS GTR 196) with current interface 4–20mA
Sensor supply:	24 V= / 2A
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:	230 V / 50 Hz 115 V / 60 Hz (optional) 24 V= (optional)
Power consumption:	max. 60 VA
Ambient temperature:	-10 °C to +45 °C
Dimensions (WxHxD):	390 x 270 x 160 mm
Weight:	approx. 5 kg
Protection type:	IP 54 to DIN 40050