



**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 O<sub>2</sub>
- 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 <sub>2</sub> H <sub>2</sub>        |
| Ether             | C <sub>4</sub> H <sub>10</sub> O     |
| Alcohol           | e.g. C <sub>2</sub> H <sub>6</sub> O |
| Ammonia           | NH <sub>3</sub>                      |
| Petrol            |                                      |
| Butane            | C <sub>4</sub> H <sub>10</sub>       |
| Hydrogen chloride | HCl                                  |
| Helium            | He                                   |
| Carbon dioxide    | CO <sub>2</sub>                      |
| Carbon monoxide   | CO                                   |

|                       |                                |
|-----------------------|--------------------------------|
| Methane (natural gas) | CH <sub>4</sub>                |
| Neon                  | Ne                             |
| Propane               | C <sub>3</sub> H <sub>8</sub>  |
| Oxygen                | O <sub>2</sub>                 |
| Toluene               | C <sub>7</sub> H <sub>8</sub>  |
| Hydrogen              | H <sub>2</sub>                 |
| Xylene                | C <sub>8</sub> H <sub>10</sub> |

## 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 <sub>4</sub> 0–100% LEL<br>LPG 0–100% LEL<br>H <sub>2</sub> 0–100% LEL<br>NH <sub>3</sub> 0–1000 ppm<br>CO <sub>2</sub> 0–4 Vol %<br>CO 0–300 ppm<br>NO <sub>2</sub> 0–30 ppm<br>O <sub>2</sub> 0–25 Vol %<br>further ranges on request |
| Digital inputs:          | 1 input for cancelling the horn (siren)  |
| Digital outputs:         | max. 48 relays for alarms<br>1 fault relay<br>1 service relay<br>1 horn relay<br>1 warning banner relay<br>All outputs are floating change-over contacts rated at max. 250 V/4 A   |
| Standard output signals: | Analog output 4–20 mA<br>Serial interface RS 232   |
| Voltage supply:          | 230 V / 50 Hz<br>115 V / 60 Hz (optional)<br>24 V / DC   |
| 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   |