



**ADOS**  
est. 1900

**Instrumentation and Control**



**MULTI-CHANNEL GAS WARNING SYSTEM**

# MWVS 903



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## Application

The multi-channel gas warning equipment MWS 903 continuously monitors the surrounding air and provides an early warning of dangerous, explosive and non-combustible gases and vapours. Possibility to connect up to 8 gas transmitters to the unit.

## Fields of Application

### Monitoring of:

- Heating systems
- Garages
- Liquid gas storage rooms
- Laboratories
- Cold-storage houses
- Plastic processing plants
- Chemical industries
- Paint manufacturing plants
- Concentration measurement of O<sub>2</sub>
- and many more

## Features

- 6-section keyboard and illuminated 4-line LC-Display for indicating actual values, half-hourly average values and fault messages, all clear text encoded
- Ready, Fault and Gas warning display
- Menu-assisted settings for the equipment parameters, via 6-section keyboard
- Two alarm thresholds for each sensor, independently adjustable from 5 to 100% of the measurement range; facility for forming half-hourly average value
- A maximum of 12 floating alarm outputs for controlling extra warning and control devices
- Floating change-over contacts for fault, siren and warning banners
- Serial interface output RS 232 for connecting a printer or PC
- 4 – 20 mA current interface
- Plastic, wall-mounted housing
- High operational reliability
- Low current consumption
- Easy installation
- USP unit available

## Example of measurable gases

Gas	Formula
Acetylene	C <sub>2</sub> H <sub>2</sub>
Alcohol	e.g. C <sub>2</sub> H <sub>6</sub> O
Ammonia	NH <sub>3</sub>
Butane	C <sub>4</sub> H <sub>10</sub>
Carbon dioxide	CO <sub>2</sub>
Carbon monoxide	CO
Carbon tetrachloride	CCl <sub>4</sub>

Chloroform	CHCl <sub>3</sub>
Ether	C <sub>4</sub> H <sub>10</sub> O
Helium	He
Hydrogen	H <sub>2</sub>
Hydrogen chloride	HCl
Methane (natural gas)	CH <sub>4</sub>
Neon	Ne
Oxygen	O <sub>2</sub>
Petroleum spirit	
Propane	C <sub>3</sub> H <sub>8</sub>
Toluene	C <sub>7</sub> H <sub>8</sub>
Xylene	C <sub>8</sub> H <sub>10</sub>

## Accessories

Signal horn (siren), Warning light, Warning banner, Test meters, Plotter, Stand-by power supply UPS 2000 24 V. Additional accessories will be offered, according to the system required. An early warning of dangerous, explosive and non-combustible gases and vapours.

## Technical Data

Sensor inputs:	8, two-or-three-wire sensors (e.g. LCTR 903) with current interface, 4 – 20 mA
Sensor supply:	24 V= / 200 mA
Ranges:	CO 0–300 ppm NO <sub>2</sub> 0–30 ppm CH <sub>4</sub> 0–100 % LEL CO <sub>2</sub> 0–10 Vol % other ranges on request
Ambient temperature:	+14°F to +104°F
Digital inputs:	1 input for siren cancel
Digital outputs:	max. 12 alarms 1 fault relay 1 siren relay 1 warning banner relay All outputs have floating change-over contacts, max. rating 250 V/4 A
Standard output signals:	Analog output 4 – 20 mA serial interface RS 232
Mains connection:	115 V / 60 Hz 230 V / 50 Hz (optional) 24 V= (optional)
Dimensions (WxHxD):	9.44 x 6.3 x 3.54 inch
Weight:	approx. 4.4 lbs
Protection:	IP 54, to DIN 40050