



ADOS[®]
est. 1900

Instrumentation and Control



MULTI-CHANNEL GAS WARNING SYSTEM

MWS 903



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Application

The multi-channel gas warning equipment continuously monitors the surrounding air and provides an early warning of dangerous, explosive and non-combustible gases and vapours.

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 O₂
- 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
- Plastic, wall-mounted housing
- High operational reliability
- Low current consumption
- Easy installation
- USP unit available

Example of measurable gases

Gas	Formula
Acetylene	C ₂ H ₂
Alcohol	e.g. C ₂ H ₆ O
Ammonia	NH ₃
Butane	C ₄ H ₁₀

Carbon dioxide	CO ₂
Carbon monoxide	CO
Carbon tetrachloride	CCl ₄
Chloroform	CHCl ₃
Ether	C ₄ H ₁₀ O
Helium	He
Hydrogen	H ₂
Hydrogen chloride	HCL
Methane (Natural gas)	CH ₄
Neon	Ne
Oxygen	O ₂
Petroleum spirit	
Propane	C ₃ H ₈
Toluene	C ₇ H ₈
Xylene	C ₈ H ₁₀

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 ₂ 0–30 ppm CH ₄ 0–100 % LEL CO ₂ 0–10 Vol % other ranges on request
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:	230 V / 50 Hz 115 V / 60Hz (option) 24 V=
Dimensions (W x H x D):	240 x 160 x 90 mm
Weight:	approx. 2 kg
Protection:	IP 54, to DIN 40050