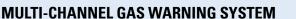## MULTI-CHANNEL GAS WARNING SYSTEM

MWS 906

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_2
- 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-weighed 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_2H_2
Ether	$C_4H_{10}O$
Alcohol	e.g. C_2H_6O
Ammonia	NH_3
Petrol	
Butane	C_4H_{10}
Hydrogen chloride	HCl
Helium	He
Carbon dioxide	CO_2

Carbon monoxide	CO
Methane (natural gas)	CH_4
Neon	Ne
Propane	C_3H_8
Oxygen	O_2
Toluene	C_7H_8
Hydrogen	H_2
Xylene	C_8H_{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 V DC / 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