



**MULTI-CHANNEL GAS WARNING UNIT**

# MWS 897





## Application

The multi-channel gas warning unit MWS 897 continuously monitors the ambient air and provides an early warning of hazardous, explosive and non-combustible gases and vapours.

## Fields of Application

- Monitoring of heating systems
- Garages and tunnels
- 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

- Use of various types of measurement sensor
- Ready, Fault and Gas warning indicators
- Menu-aided operation, via 2 keys
- Integrated buzzer, Gas half-hourly average value
- Three alarm thresholds individually adjustable from 0–100 % of test range
- Three floating alarm outputs for driving additional warning and control systems
- Floating fault contact
- Serial output, RS 232, for connecting a printer or a PC
- High degree of reliability
- Low current consumption
- Plastic, wall-mounting housing
- Installation
- Straightforward operation

## 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	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, Warning light, Warning banner, Ventilation control, Test meters, Plotter.

Additional accessories are available, depending on the system ordered.

## Technical Data

Sensors:	Semiconductor sensor Heat reaction sensor Thermal conductivity sensor Fuel cell Infrared cell
Sensor inputs:	6 two-wire sensors (e.g. 592 TOX) or 2 three-wire sensors (e.g. GTR 196) or 1 three-wire sensor + 5 two-wire sensors
Sensor supply:	19 V = / 200 mA
Ranges:	CO 0–300 ppm NO <sub>2</sub> 0–30 ppm CH <sub>4</sub> 0–100 % UEG CO <sub>2</sub> 0–10 Vol % further ranges on request
Accuracy:	<3 %, f.s.d.
Ambient temperature:	-10 °C to +40 °C
Temperature effects:	<3 % for ± 20 °C change
Setting time (t <sub>90</sub> ):	< 60 s
Installation:	Wall-mounting
Protection class:	IP 54
Output signal:	Voltage output, 1–5 V RS 232 interface 3 Alarm relays, 1 Fault relay
Relay rating:	115 V, 450 VA other voltages, on request
Voltage supply:	115 V, 60 Hz 230 V, 50 Hz (optional) 24 V = (optional)
Consumption:	14 VA
Dimensions (W x H x D):	225 x 180 x 105 mm
Weight:	approx. 1,5 kg