



**ADOS**  
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**Instrumentation and Control**



## MULTI-CHANNEL GAS WARNING UNIT

# MWS 897



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## 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
- Easy 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<br>Heat reaction sensor<br>Thermal conductivity sensor<br>Fuel cell<br>Infrared cell                          |
| Sensor inputs:                   | 6 two-wire sensors (e.g. TOX 592)<br>or 3 three-wire sensors (e.g. GTR 196)<br>or 2 three-wire sensor +<br>4 two-wire sensors      |
| Sensor supply:                   | 19 V <sub>~</sub> / 200 mA                                                                                                         |
| Ranges:                          | CO 0–300 ppm<br>NO <sub>2</sub> 0–30 ppm<br>CH <sub>4</sub> 0–100 % LEL<br>CO <sub>2</sub> 0–10 Vol %<br>further ranges on request |
| Accuracy:                        | <3 %, f.s.d.                                                                                                                       |
| Ambient temperature:             | 14 °F to 104 °F                                                                                                                    |
| Temperature effects:             | <3 % for ±36 °F change                                                                                                             |
| Setting time (t <sub>90</sub> ): | < 60 s                                                                                                                             |
| Installation:                    | Wall-mounting                                                                                                                      |
| Protection class:                | IP 54                                                                                                                              |
| Output signal:                   | Voltage output, 1–5 V<br>RS 232 interface<br>3 alarm relays, 1 fault relay                                                         |
| Relay rating:                    | 115 V, 450 VA<br>other voltages on request                                                                                         |
| Voltage supply:                  | 115 V, 60 Hz<br>230 V, 50 Hz (optional)<br>24 V= (optional)                                                                        |
| Consumption:                     | 14 VA                                                                                                                              |
| Dimensions (WxHxD):              | 8.85 x 7.08 x 4.13 inch                                                                                                            |
| Weight:                          | approx. 3.3 lbs                                                                                                                    |