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_2
- 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_2H_2
Alcohol	e.g. C_2H_6O
Ammonia	NH_3
Butane	C_4H_{10}
Carbon dioxyde	CO_2
Carbon monoxide	CO
Carbon tetrachloride	CCl_4
Chloroform	$CHCl_3$
Ether	$C_4H_{10}O$
Helium	He
Hydrogen	H_2
Hydrogen chloride	HCl
Methane	CH_4
Neon	Ne
Oxygen	O_2
Petroleum spirit	
Propane	C_3H_8
Toluene	C_7H_8
Xylene	C_8H_{10}

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. TOX 592) or 3 three-wire sensors (e.g. GTR 196) or 2 three-wire sensor + 4 two-wire sensors
Sensor supply:	19 V≈ / 200 mA
Ranges:	CO 0–300 ppm NO_2 0–30 ppm CH_4 0–100 % LEL CO_2 0–10 Vol % 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_{90}):	< 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 (WxHxD):	8.85 x 7.08 x 4.13 inch
Weight:	approx. 3.3 lbs