



MACView[®]

GASSENSOR

The MACView[®] is a measurement system for measurement of harmful gasses or vapours. The MACView[®] can display and register the measured concentrations and alarms external, if needed. The principle is based on a solid-state sensor which, can measure various volatile organic compounds. The advantage of this solid-state sensor compared to other measurement principles is the longer lifetime. For the MACView[®]-Gassensor is a whole range of different sensors available for various components.

The MACView[®]-Gassensor measures the following components:

Inflammable gasses: Propane - Butane - LPG - Hydrocarbons - Methane - Hydrogen

Toxic gasses: CO - Ammonia - H₂S - Gasoline/Diesel exhaust - NO_x -etc.

Oxidizing gasses: Ozone - Nitrogen oxides - Chlorine (connection) - etc.

CFC's: R21 - R22 - R113 - R134a and much other cooling liquids

Indoor pollutants: CO₂ - Air containments - VOC's - cigarette smoke - etc.

(See the sensor list for an extensive overview of all available sensors.)

Display

De MACView[®]-Gassensor displays the measured values in ppm (parts per million) on the display. Through this, these values are immediate comparable with the MAC-value. This is the Maximum Allowable Concentration. When this MAC-value is exceeded it is possible to act immediately to prevent high concentrations, by removing the cause. On the second row of the display, the status of the relays is shown.

Alarms

The MACView[®]-Gassensor contains 2 relays. These relays are useful when external alarm situations are needed. The relays can be set up in a menu separately.





An example application is the triggering of an alarm light or an acoustic signal. One relay can be used for alarming for the too high concentrations, while the other relay is used for controlling the ventilation system. Thus the ventilation works only if needed, which saves energy.

Registration

In addition to the displaying for control and alarming, it is possible to manage the data of the measurements in a database. This is done by the use of the MACRegister[®]-Software. It is possible to show the total course of the measurements. From the gathered data, too high concentrations can be mapped out. With the MACRegister[®]-Software it is possible to set how many measurements should be made within a given time. With this software it is also possible to alter the settings of the MACView[®] direct from the PC and to read the measurements real-time. The measurement values can be printed in a report, finally. De MACRegister[®] is suitable for Windows 95, 98, NT, 2000, ME and XP.

TECHNICAL SPECIFICATIONS

MACView[®]-Gassensor

Material of housing	Aluminium
Weight	1095 gramme
Dimensions	61 x 116 x 189 mm
Type of sensors	Choice of MACView [®] -Wallmount or MACView [®] -Probe
Number of sensors	Up to a maximum of 2 sensors can be connected on 1 unit
Warming-up time	300 seconds
Signalling / Alarming	ppm and hysteresis adjustable per relays
Display	Using backlight LCD display with 2 rows x 16 characters
Acceptance of alarm	By use of reset pushbutton
Communication with PC	Via a RS232-cable
Outputs	- 2 relays outputs (up to 250 VAC separately switchable) - 1 analog output 0-10 V or 4-20 mA, 325 Ohm @12V
Units on display	parts per million (ppm) or parts per billion (ppb)
Fastening	Read-out unit and sensor can be mounted separate or together on a wall easily.
Protection classification read-out	IP65
Accuracy probe / sensor	± 1.5%
Short term stability probe / sensor	3%
Long term stability > 1 yr. probe / sensor	± 5%
Approval	CE

Raiffeisenstraat 24
4697 CG Sint-Annaland
The Netherlands

t +31 (0)166 65 72 00
f +31 (0)166 65 72 10

e info@macview.info
i www.macview.info

