



MACView® PARTICLES

The concept for monitoring of fine-dust and particles in the air

Permanent measurement and monitoring of particles

The MACView®-Particles monitoring system for particles like dust and smoke. It is specially developed for use in workrooms and industrial environments. The MACView®-Particles measures, reproduces data, registers data using software and controls an external alarm, if needed. The principle of measurement is based on the principle of diffusion of infrared light (light scattering method).

Displaying, alarming and registering

The MACView®-Particles displays the measured values on a LCD-display in mg/m³ (milligrams per cubic metre). The value can be compared to the MAC-value (Maximum Allowable Concentration) directly. In the monitoring system, 2 relays and 1 analog output are built in which can be used to trigger an external alarm- or ventilation system. It is possible to activate an acoustic or visual alarm to make people aware of too high concentrations.

With the software (useable for all Windows versions), data can be saved, printed and graphical represented remotely. The data can be exported to every desired format to be used in your own files. In the software, the MAC-values (Maximum Allowable Concentration) of the various kinds of dust are adjustable separately. It is also possible to set up the system for multiple kinds of dust or particles. The program will calculate the correct average MAC-value and compare this with the measured values of the MACView®-Particles.





TECHNICAL SPECIFICATIONS

MACView®-Particles

Material of housing	Read-out unit: Aluminium, sensor: Stainless steel
Approval	CE
Protection classification read-out unit	IP65
Dimensions MACView®-Particles	61 x 116 x 189 mm
Diameter sensor	130 mm
Warming-up time	300 seconds
Short-term stability sensor	± 3%
Long-term stability >1 year sensor	± 7%
Measurement range	0 - 16 mg/m³
Signalling / Alarming	mg/m³ and hysteresis adjustable per relays
Display	Using backlight LCD display with 2 rows x 16 characters
Unit on display	mg/m³ or pcs.
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
Speed of the microcontroller	20MHz
Measurement approval	Calibrations done in Spiez (Swiss), copy of the certificate available
Fastening	Read-out unit and sensor can be mounted separate or together on a wall easily.
Software	MACRegister®-software is standard available for Windows 95, 98, NT, 2000, ME and XP.



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