



# MACView<sup>®</sup> IP

**The concept for monitoring via an Internet browser**

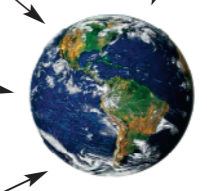
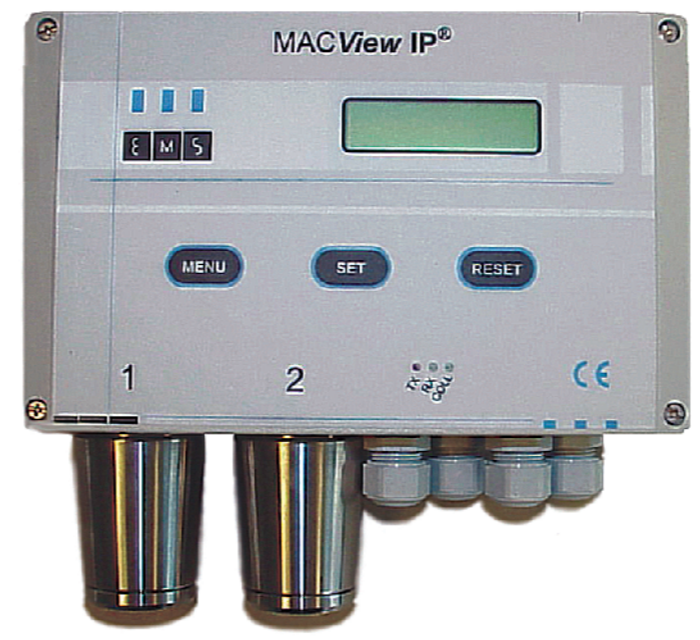
## **Measurement and monitoring with a browser**

People demand for availability of data. Much devices collect data, day in day out. Via the control screen or a laptop of the operator data can be visualised. Now it is possible with the MACView<sup>®</sup>-IP to get all the necessary information from gas, vapour and fine-dust sensors by viewing them in your browser or to download them.

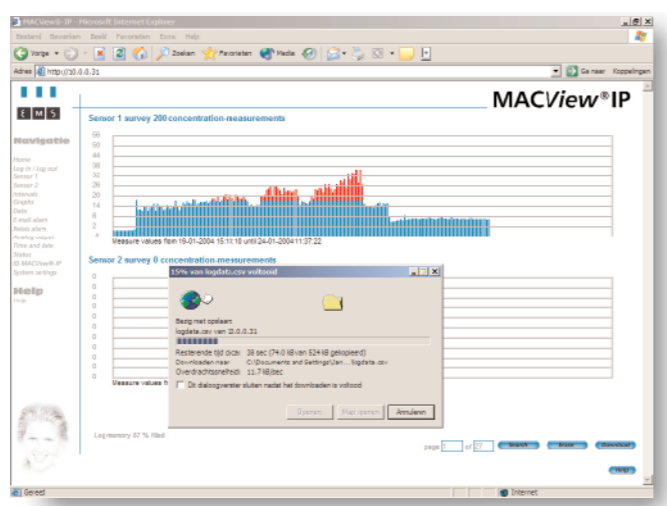
The MACView<sup>®</sup>-IP is a gas, vapour and fine-dust monitoring system that contains all the visualisation software in the device. The monitoring system has its own internal web-server that can be connected to the intranet or via a firewall to Internet. All imaginable visualisations and parameters are controlled via a standard web browser.



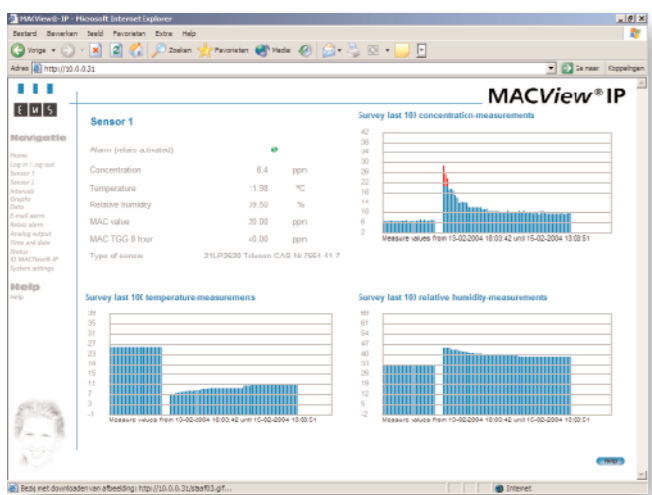
## MACView®-IP TCP/IP Communication



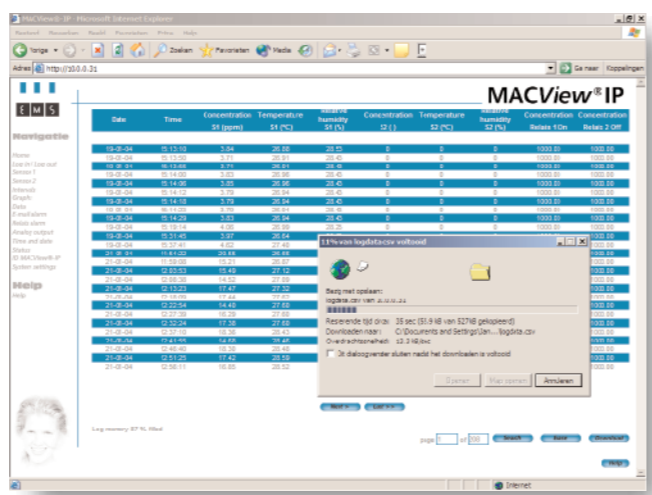
### MACView®-IP screenshots:



Graphics and downloads



Actual sensor status and the last measured values



Tables and downloads

### Anytime, Anywhere, Any MACView®-IP

With this system and an Internet connection it is possible to view the process from 1 location, several buildings, offices, factories or garages spread through the whole world. The systems can give their status by Internet or intranet. The advantages are big. A quality assurance department can see in one eye the effort of the heating and ventilation system, or the quality control department can see the amount of dust particles in the air from a packaging factory for food.

### Database management with TCP/IP

In the MACView®-IP there is an internal database where data is logged. The software comes from the browser by typing the right address or by clicking the right MACView®-IP in the management software. To get overview of many MACView®-IP gas monitoring systems a special software tool is available to manage all the MACView®-IP systems that are in the network. You can control it by distance, manage, monitor and

look at incoming alarms. The system is fully based on Ethernet connections and uses the worldwide spread TCP/IP communication protocol to send its data through the Internet. Integration in existing Ethernet and intra-networks is easy to perform. The unique concept is that there is feedback from messages and alarms that came in by E-mail. Immediately after receiving the message you can look on the location where the message came from and zoom in on the database and actual values to handle the message or alarm.

### Modular and intelligent

The MACView®-IP is build modular. In theory there could be as much MACView®-IP systems run on the network as there are available Internet addresses. The system is protected in a robust aluminium IP68 housing that is powder coated. Every MACView®-IP can contain a maximum of 2 sensors. The MACView®-IP recognises which sensor is connected and automatic get the calibration parameters from the inside of the sensor.

### Standards

Every MACView®-IP has its own IP-address. Due to this the system works with the worldwide spread standards of intranet and Internet communication. In the system are standards used as Ethernet IEEE 802.3, TCP/IP, HTML and SMTP. From Electrical point of view the MACView®-IP is build according NEN-EN-IEC 61000-6-1 up to NEN-EN-IEC 61000-6-4 and approved according CE standards. Beside to the specific intranet properties, the MACView®-IP contains all traditional properties that normally available on a gas, vapour and fine-dust measurement system: Switch functionality with 2 potential free relays, analog outputs for the external recording of measurements, controlling frequency regulators for ventilations systems or climate control are all standard available. Further there is an integrated E-mail functionality. When an alarm value is exceeded the MACView®-IP automatic sends an E-mail message to 2 E-mail addresses of your choice.

### Security and protection

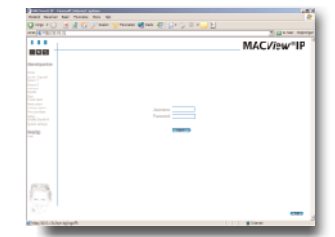
The MACView®-IP has its own security. This works on 2 levels. The lowest level is the normal user. This user can only view data and modify plain parameters. The second level is meant for the administrator who fully manages the system. Usernames and passwords are then adjustable.

### The advantages in an overview

- Easy installation (No software needed)
- Status display and menu on front of the MACView®-IP
- Intelligent sensors through easy exchange is possible
- Up to 80 different gas-, vapour- and fine-dust sensors available
- Easy to connect to existing intranets and Internet
- Alarm message also via E-mail
- All imaginable actions adjustable, (2x analog out en 2x dig. out)
- For coupling to central management system, software available
- The MACView®-IP has an internal database and web server

### Demonstration

Take notice of one of the MACView®-IP systems that are on-line available for demonstration purposes on Internet. Browse to the link on <http://www.macview.info> and look under the link of products, MACView®-IP and you are able to easy access the MACView®-IP without logging on to the system.





# TECHNICAL SPECIFICATIONS

## MACView®-IP

<b>Manufacturer</b>	Environmental Monitoring Systems (EMS) BV (Dutch product)
<b>Version</b>	MACView®-IP system, IP based 2 channel monitoring system
<b>Display</b>	Display 2x16 characters: Concentration, temperature and relative humidity
<b>Available user interfaces</b>	Menu settings: IP-address, subnet mask, relays1, relays2, analog output 1 and 2
<b>Sensor types:</b>	More then 80 sensors available for gasses, vapours and fine-dust, 3-wire 4-20mA: Inflammable gasses: Propane - Butane - LPG - Hydrocarbons - Methane - Hydrogen Toxic gasses: CO - Ammonia - H2S - Gasoline/Diesel exhaust - NOx -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.)
<b>Sensor versions</b>	Every sensor outputs: Gas or dust concentration, relative humidity, temperature 206301: MACView®-IP intelligent sensor output, gas, RH and T 206301 + 206602: process connection for MACView®-IP 206302: MACView®-Particles Advanced 4-20mA output, dust only 206303: MACView®-Particles Advanced process connection 4-20mA, dust only
<b>Material of housing</b>	Powder coated aluminium
<b>Standards</b>	NEN-EN-IEC 61000-6-1 up to 4, CE, Ethernet IEEE 802.3, TCP/IP, HTML and SMTP
<b>Signalling / Alarming</b>	ppm or mg/m3 and hysteresis adjustable per relays (programmable per function) analog output 4-20mA (programmable per function) E-mail adjustable, several status LED's, RX, TX, Collision, status relays on display
<b>Acceptance of alarm</b>	By use of reset pushbutton or by using the browser
<b>Communication protocols</b>	TCP/IP across IEEE 802.3 Ethernet, (UTP connection with 8 wires)
<b>Log memory</b>	Internal database with date- and time (24 hours)
<b>Sensor inputs</b>	Digital transmission protocol with intelligent module
<b>Inputs</b>	1 Digital input (potential free)
<b>Outputs</b>	2 Analog outputs (0-10V, 0-20 mA or 4-20mA (Adjustable in the software) Load of the mA outputs is 500 Ohm @12V 2 Digital outputs (pot. free relays 230V, 1A) for alarm of gas / dust concentration
<b>Service connection</b>	RS 232 interface
<b>Supply</b>	Mains 230 VAC, available output: 5VDC
<b>Operation temperature sensors</b>	-30 + 80 degrees Celsius, relative humidity 5 tot 95%, no condensation
<b>Operation temperature MACView®-IP</b>	-10 + 50 degrees Celsius, relative humidity 5 tot 95%, no condensation
<b>Software</b>	Integrated in an autonomous web server. For more IP or IPR systems is an optional management tool available.
<b>User interface</b>	HTML pages
<b>Dimensions MACView®-IP</b>	141 x 221 x 78 mm
<b>Mounting</b>	Mounting against a wall or in a frame is possible.

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