



# MACView<sup>®</sup>

## EEx-i TRANSMITTER

**Explosion proof gasses and vapours measurement with solid-state**

### **Explosion proof transmitter with display**

The MACView<sup>®</sup>-EEx-i transmitter is an explosion proof measurement system for the measurement of gasses and vapours in hazardous areas. The device is approved according to the ATEX standards. The special feature is that the gas sensors are approved for use in zone 0. The sensors are thus approved to come in contact with inflammable gas- and vapour mixtures without the danger of any explosion. The sensor is approved according to ATEX II 1G EEx IIC ia T4. The measurement system has an analog 4-20mA output. Through this, the device can directly be connected to the central data system or a frequency motor control on a ventilation system. The MACView<sup>®</sup>-EEx-i is compatible with the MACView<sup>®</sup>-IPR read-out unit. Through this the MACView<sup>®</sup>-IPR can also be used to monitor explosion proof sensors in hazardous areas. The MACView<sup>®</sup>-IPR is then placed in an explosion proof zone / area.

### **Display, menu and alarm**

The MACView<sup>®</sup>-EEx-i displays the values in ppm (parts per million). The value can immediately be compared to the MAC-value. (Maximum Allowable Concentration) After the read-out glass of the MACView<sup>®</sup>-EEx-i are 3 reed-relays contacts. These contacts can be controlled with a magnetic. Thus menu adjustments can be done in a hazardous area. The measurement system has also 2 relays. These relays are suitable for the switching of low little loads of 1A @125V.





# TECHNICAL SPECIFICATIONS

## MACView®-EEx-i-transmitter

<b>Manufacturer</b>	Environmental Monitoring Systems (EMS) BV (Dutch product)
<b>Type</b>	MACView®-EEx-i-transmitter, digital 1 channel monitoring system
<b>Material of housing</b>	Aluminium with epoxy coating
<b>Protection classification</b>	IP65
<b>Display</b>	Clear display 2x16 characters with backlight: Gas concentration, temperature and relative humidity
<b>Menu</b>	Adjusted with a magnetic by a reed-relays
<b>High sensitivity, fast response, calibration certificate included</b>	
<b>Temperature and relative humidity compensated sensors</b>	
<b>16 bits accurate measurement system</b>	
<b>Sensor types:</b>	<b>More then 80 sensors available for gasses and vapours:</b> <b>Inflammable gasses:</b> Propane - Butane - LPG - Hydrocarbons - Methane - Hydrogen <b>Toxic gasses:</b> CO - Ammonia - H2S - Gasoline/Diesel exhaust - NOx -etc. <b>Oxidizing gasses:</b> Ozone - Nitrogen oxides - Chlorine (connection) - etc. <b>CFC's:</b> R21 - R22 - R113 - R134a and much other cooling liquids <b>Indoor pollutants:</b> CO2 - Air containments - VOC's - cigarette smoke - etc. (See the sensor list for an extensive overview of all available sensors.)
<b>Integrated sensors</b>	Gas concentration, relative humidity and temperature
<b>Sensor types:</b>	206601: MACView®-EEx-sensor, TTL output intelligent sensor output, gas, RH and T 206601 + 206602: process connection for MACView®-EEx-i
<b>Approval of sensor</b>	ATEX II 1G EEx IIC ia T4
<b>Diameter sensor</b>	130 mm
<b>Warming-up time</b>	300 seconds
<b>Short-term stability</b>	± 2%
<b>Long-term stability</b>	± 5%
<b>Speed of microcontroller</b>	8 MHz
<b>Supply</b>	12V, three-wire connection ground, supply +12V and output (4-20mA)
<b>Inputs/ outputs</b>	- 2 isolated relays outputs (NO or NC) - 1 analog output 4-20mA, load 400 Ohm @12V
<b>Dimensions MACView®-EEx-i</b>	135 x 140 x 195mm (l x b x h) , incl. sensor
<b>Dimensions of sensor</b>	diameter: 80 mm, height: 85 mm, incl. cable gland
<b>Explosion proof technique</b>	EEx-i for the sensors, EEx-d for the read-out
<b>Signalling / Alarming</b>	Range of ppm for analog output and hysteresis adjustable per relay
<b>Acceptance of alarm</b>	With reed-relays or by fall back of setpoint
<b>Mounting</b>	Sensor can be mounted easy on a wall



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

