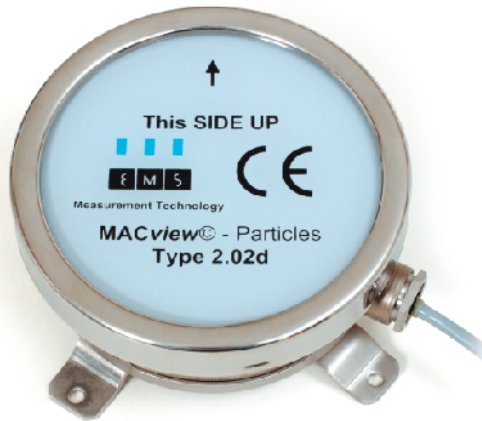




**Process-connection for connection with ventilation channels**



# MACView®

## PARTICLES ADVANCED

**Universal fine-dust and particles sensor**

The MACView®-Particles Advanced is a universal fine-dust and particles sensor. The sensor measures the concentration of fine dust. The measurement principle is based on the diffusion of infrared light. (Scattering light method) The range of the measured size of particles is from 0.8  $\mu\text{m}$  up to 12  $\mu\text{m}$ . All parts under or above this range are ignored and thus are not measured. The reason is that parts above this range are not inhaled and parts under this range easy breathe out. There is also a version available that can be connected with the MACView®-IPR. The advantage is that also the temperature and the relative humidity are measured and displays on the MACView®-IPR.

### Stand-alone or integrated

The MACView®-Particles Advanced is designed for stand-alone use. The sensor sends its standard industrial 4-20mA signal directly to a PLC or frequency regulator. The output range is with buttons adjustable in the range of 0 and 16  $\text{mg}/\text{m}^3$ . (Milligram per cubic metre) The values can directly be compared with the MAC-value. (Maximum Allowable Concentration for human) Through this the range can be adjusted so that the MACView®-Particles Advanced can drive a frequency regulator. The analog output is designed so that an error 1 mA is at the output. In a PLC the difference can be detected by a cable disconnection or an internal fault. It is easy to keep the sensor clean. The cover can easy be taking of. Also the cleaning of the internal sensor after a long period is very easy job. Long distances between the sensor and read-out unit are no problem.



