Automotive Air Quality Module / Air Classification Module (ACM)

- Well suited for detection of carbon monoxide, volatile organic compounds, volatile sulfur compounds or nitrogen dioxide
- Fast response: ~ 1 second
- Hardware: circuitry for two micro-machined MOS sensor elements with micro-controller
- Firmware: raw data output or quantification of CO/VOC and/or NO_2, measurement interval ~200 ms
- Housing: polyamide PA6 with diffusion membrane and cover
- Output: PWM or RS232 via MQS connector

Hardware

- PCB with SMD electronics
- Circuitry for 2 MOS sensor elements
- Micro-controller for data processing
- PWM or RS232 output

.

Firmware

- Functionality to drive MOS sensors
- Algorithm for self-diagnosis

Application-specific customization:

- Number of sensor elements needed
- Sensing material selection
- Operation parameters for sensor elements
- Mode of operation
- Interval time
- Algorithm output
- Output format and protocol

Applications

- CO/VOC and NO_2 for automotive recirculation control
- CO/VOC/VSC for indoor air quality control
- VOC for residual solvent detection

For more information, contact:

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