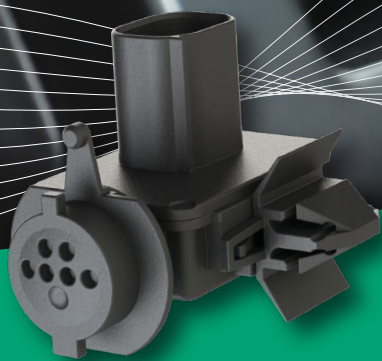


# ACM family



## Air classification module for automotive air intake

- Detection of reducing and oxidizing gases
- OEM customizable device
- Lowest power consumption

# ACM family

## Air classification module for automotive air intake control

ACM (Air Classification Module) is a fully automotive-qualified module for automatic HVAC air intake control. The embedded metal oxide (MOX) sensors are designed for oxidizing and reducing gas detection to protect the cabin air from various pollutants such as poisonous exhaust gases from gasoline and diesel engines or unpleasant odors from farming.

Besides its fast adaptation to sudden environmental changes, the module supports OEM-specific classification levels while various mounting and signal output options allow individual customization. Moreover, the low power consumption makes ACM particularly suited for electric vehicles and smart energy management solutions.

### Features

- Detection of VOCs, CO, NH<sub>3</sub>, H<sub>2</sub>S, SO<sub>2</sub>, NO<sub>2</sub>, O<sub>3</sub> and many other poisonous or unpleasant odors
- Automatic adaptation to country and city environments
- Customer-specific air classification levels
- LIN or PWM interface with MQS connector
- Standardized mounting options (AK-Sensorik): Bayonet or DELPHI clip
- Optional temperature and humidity sensor

### Properties

- Automotive AEC-Q100, ISO/IATF16949:2016 and VDA6.3 conformant with full traceability
- IP5K4K, IPx7 and IP9K compliant packaging
- Temperature range: -40 – 125°C
- Power consumption down to <30mA
- Dimensions: W 31.3 x L 44.59 x H 35.4mm w/o fixture
- Weight: 13g

### Benefits

- Clean in-cabin air comfort
- Configurable to OEM requirements
- Easy integration / tool-free mounting
- Full automotive grade specification & traceability
- Market proven solution, with more than 50 million units shipped

### Applications

- Automotive: air quality monitor

### Housing Options

