



Standard specification

Measured gas

Operating principle

Measurement range CO2 Measurement range CO OUT1 CO OUT2 CO₂ OUT3 Relay

OUT4 Open collector Accuracy (CO₂) Accuracy (CO) Dimensions Life expectancy Operation temperature range Power supply Communication Display

Carbon dioxide (CO₂) Carbon monoxide (CO) Non-dispersive infrared (NDIR) 0 - 3000 ppm 0 – 100 ppm 0 - 10 V DC, 0 - 100 ppm 0 - 10 V DC, 0 - 2000 ppm Closed: (CO < 30 ppm) AND (CO2 < 1400 ppm) Open: (CO > 35 ppm) OR (CO2 > 1500 ppm) Error detection ±30 ppm ±3% of reading ±10 ppm 150 x 85 x 46 mm >5 vears 0 – 50 °C 24 V AC/DC (±20%), 3 W UART (Modbus) Optional

CO and CO₂ sensor ventilation controller

aSENSE MIII is a controller with built-in sensors to monitor at the same time carbon dioxide and carbon monoxide. With these parameters, the programmable unit can control, e.g. ventilation rates, and generate alarm signals for personal safety devices. aSENSE MIII is designed for stand-alone operation, as well as being connected to larger building automation systems.

The aSENSE MIII is applicable in most large spaces where combustion is the source of the potential toxic danger, such as in public garages, truck terminals, tunnels and mines. It offers the possibility to combine CO and CO₂ measurements which not just guarantees public safety, but also saves energy when applied to Demand Controlled Ventilation.

The aSENSE MIII offers the possibility to regulate ventilation systems stand-alone, as well as being just a sensor in a larger system. To cover larger spaces, e.g. several sensors could be joined in a simple relay loop and together control an intermittent two-speed exhaust fan.

Key benefits

- Maintenance-free
- Two sensors in one housing
- Flexible control outputs for connection to DDC, or direct control of dampers and speed regulated fans
- Contributes to lower energy costs when applied in Demand Controlled Ventilation
- Internal data recorder for environmental trend logging
- Serial com port for connection to PC, GSM-module or local network





