

# GMM112 Carbon Dioxide Module for HVAC Applications

## Features/Benefits

- Compact, OEM module for demand-controlled ventilation and other CO<sub>2</sub> measurement applications
- Incorporates Vaisala CARBOCAP®, the silicon based NDIR sensor with unique internal referencing
- Advanced, single-beam, dual wavelength measurement with no moving parts
- Excellent long-term stability
- Ideal for ventilation control in all types of occupied spaces



The Vaisala CARBOCAP® Carbon Dioxide Module GMM112 is a basic CO<sub>2</sub> measurement module.

## Performance

CO <sub>2</sub> measurement range	0 ... 2000 ppm
Accuracy (including repeatability, non-linearity and calibration uncertainty)	±(2.5 % of range + 3 % of reading)
Long-term stability	±100 ppm CO <sub>2</sub> /5 years
Response time T <sub>90</sub>	1 min
Temperature dependence, typical	-0.35 % of reading/°C
Pressure dependence, typical	+0.15 % of reading/hPa
Warm-up time	1 min. 10 min for full specification
Product lifetime	> 10 years

## Operating environment

Temperature	-5 ... +45 °C (23 ... 113 °F)
Humidity	0 ... 85 % RH
Pressure	700 ... 1200 hPa
Electromagnetic compatibility	Complies with EMS standard EN61326-1:1997 + Am1:1998, Generic Environment

## Inputs and outputs

Operating voltage	24 V (±20 %) AC/DC
Power consumption	<2 W
Outputs	4 ... 20 mA, 0 ... 10 V RS-485, 2-wire, non-isolated

## Dimensions

Dimensions in mm

