

GMM20W Carbon Dioxide Module for OEM Applications



The Vaisala CARBOCAP® Carbon Dioxide Module GMM20W is designed for OEM applications in benign environments.

Features/Benefits

- Incorporates the silicon based Vaisala CARBOCAP® Sensor
- Stable in terms of time and temperature
- Dust, water vapor or most chemicals do not affect the measurement accuracy of the sensor
- Small size enables easy integration into various systems

Performance

Carbon dioxide measurement

Measurement range	0...2000 ppm (nominal; can be calibrated for other ranges: 0...5000 ppm, 0...10,000 ppm, 0...20,000 ppm)
Accuracy (including repeatability, non-linearity and calibration uncertainty)	± (2 % of range + 2% of reading) <±5 % of range / 5 years
Long-term stability	<±5 % of range / 5 years
Response time (63%)	1 minute
Warm-up time	1 minute, 15 minutes full specifications
Weight	45g

Inputs and outputs

Outputs	0...20 or 4...20 mA and 0..10 V
Resolution of analog outputs	8 bits
Recommended external load:	
current output	max. 500 ohm
voltage output	min. 1 kohm
Operating voltage	nominal 24 VAC/DC (18...30 VDC)
Power consumption	<2.5 W

Operating environment

Temperature	-5...+45 °C
Humidity	0...85 %RH, non-condensing
Electromagnetic compatibility	EN61326-1, Generic Environment

Accessories and options

Display and relay option	GMI21
Relay output option	GMR20
Calibration software kit (disk and serial COM adapter)	19222GM
Analog temperature module* (not available when display option is added)	GMA20T

Dimensions

Dimensions in mm

