

GMM111 Carbon Dioxide Module



Features/Benefits

- Compact CO₂ module with flow-through aspiration
- Ideal for light industrial OEM applications
- Incorporates Vaisala CARBOCAP®, the silicon based NDIR sensor with unique internal referencing
- Advanced single-beam, dual wavelength measurement with no moving parts
- Measurement range options 0 ... 5 %, 0 ... 10 % and 0 ... 20 % CO₂
- Excellent long-term stability

The Vaisala CARBOCAP® Carbon Dioxide Module GMM111 is a CO₂ measurement module with flow-through aspiration.

Performance

CO ₂ measurement range	0 ... 5 %, 0 ... 10 % or 0 ... 20 %
Accuracy (including repeatability, non-linearity and calibration uncertainty)	±(1.5 % of range + 3 % of reading)
Long-term stability	±1 % CO ₂ /2 years
Response time T ₉₀	1 min at 0.5 l/min flow
Flow rate dependence	
< 1 l/min flow	no effect
1 ... 10 l/min flow	4 % of reading/ l/min
Temperature dependence, typical	-0.3 % 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

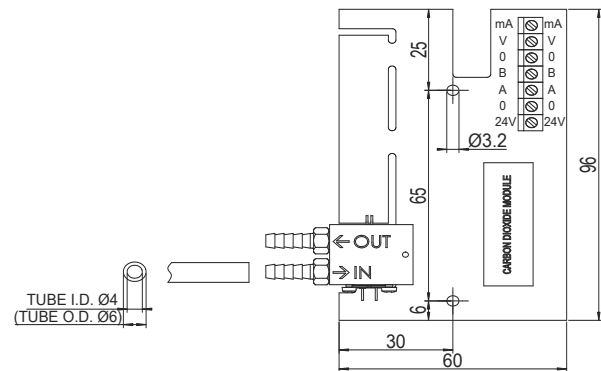
Temperature	+5 ... +55 °C
Humidity	0 ... 99 % RH non-condensing
Pressure	700 ... 1200 hPa
Gas flow	
operating range	< 10 l/min
recommended range	0.2 ... 0.8 l/min
Electromagnetic compatibility	EN61326-1, Generic Environment

Inputs and outputs

Outputs	4 ... 20 mA, 0 ... 10 V RS485, 2-wire, non-isolated
Operating voltage	24 V (±20 %) AC/DC
Power consumption	<2 W

Dimensions

Dimensions in mm



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