## 工采网 iSweek.cn

## GMW116 Carbon Dioxide and Temperature Transmitter for Ventilation Control



The Vaisala CARBOCAP® Carbon Dioxide and Temperature Transmitter GMW116.

#### Features/Benefits

- Compact dual-parameter transmitter: measures both CO<sub>2</sub> and T
- 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 including those with aroundthe-clock occupancy
- No need for temperature compensation

The Vaisala CARBOCAP® Carbon Dioxide and Temperature Transmitter GMW116 is the compact-size transmitter that measures both carbon dioxide and temperature. The sensor is accurate and durable and it has an excellent long-term stability, which decreases maintenance.

The excellent performance of the Vaisala CARBOCAP® sensors results largely from the stable reference provided by the electrically tunable Fabry-Perot Interferometer (FPI).

In buildings with around-theclock occupancy (e.g. hospitals, work-places, residential buildings, retirement homes), the assumed background  $CO_2$  level reference is simply not applicable. The true internal reference measurement of Vaisala CARBOCAP®  $CO_2$  transmitters provides years of stable  $CO_2$  measurements.

The GMW116 Transmitter is designed especially for demand controlled ventilation applications with  $CO_2$  measurement range of

0 ... 2000 ppm and temperature range of 0 ... +50 °C.

With GMW116 there is no need for temperature compensation. The ideal gas temperature behaviour is taken into account automatically.

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## **Technical data**

#### Performance

CO <sub>2</sub> -measurement range	02000 ppm
Temperature measurement range	0 +50 °C
Accuracy (including repeatability, non-	± (2 % of range + 2 % of
linearity and calibration uncertainty)	reading
Long-term stability	±5 % of range/5 years
Response time T90	1 min
Temperature dependence	compensated
Pressure dependence, typical	+0.15 % of reading/hPa
Temperature measurement accuracy	$\pm0.7$ °C at 25 °
Warm-up time	1 min, 10 min for full.
	specification
Product lifetime	> 10 years

# Operating environment Temperature 0 ... +50 °C Humidity 0 ... 85 % RH Pressure 700 ... 1200 hPa Electromagnectic compatibility Complies with EMS standard EN61326-1, Generic Environment

Inputs and outputs	
Operating voltage	24 V (±20 %) AC/DC
Power consumption	<2 W
Outputs	0 10 V

#### Housing

Material	ABS/PC blend plastics
Weight	120 g
Cover and base colour	white RAL 9003
Fire resistance	UL94 V0
Ingress protection	IP30

#### Dimensions





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