

INTRODUKTION

The “ventilated” encapsulation gives as short a time constant as possible for temperature changes and a good flow for carbon dioxide measurement.

- Intended for use together with room climate controllers or an active supply air diffuser.
- Primarily intended for controlling CO₂ levels, with room temperature measurement as optional addition.
- The active supply air diffusers are already equipped with temperature sensors.



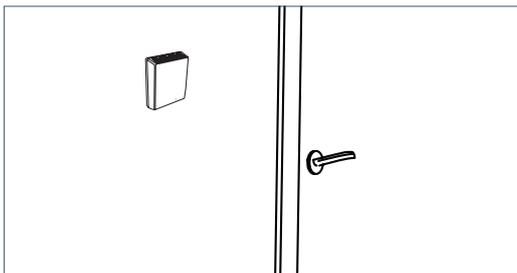
Temperature and carbon dioxide sensor GTQ-V.

FUNCTION

The combined sensor gives a 2-10 V output signal for the range 400-2000 ppm carbon dioxide. The temperature sensor gives a 0-10 V output signal for the range 12-43°C.

PLACEMENT

The measured temperature from a sensor placed on a wall is an average of the wall's heat radiation and the air temperature surrounding the sensor. To get a quick response, it is important not to place the sensor on a thermal bridge and, preferably, not on concrete pillars with relatively high thermal inertia. Note that a location directly at a doorway means the sensor can be affected by corridor temperature and by airflows resulting from the temperature difference between the room and the corridor.



GTQ-V mounted on wall.

TECHNICAL SPECIFICATIONS

General

Temperature measurement: Sensor with thermistor of the type NTC, connected to electronics that gives an output signal between 0-10V.
 Measuring range: 12-43 °C.
 Accuracy: ± 0.5 K

Carbon dioxide measurement:
 Measuring range: 400-2000 ppm
 Accuracy: ± (70 ppm + 3%) with background calibration against 400 ppm

Dimension: 103x82x30 mm
 Material: Enclosure in PS
 Weight: 0,09 kg
 Colour: RAL9003
 IP-class: IP20.

Electrical system

Power consumption: <0,5 VA
 CE-marking: Complies with EMC and the low voltage directive.

Output signals:
 1 pc 0-10V for the range 12-43 °C linear.
 1 pc 2-10V for the range ppm 400-2000 linear.

ADDITIONAL PRODUCT DOCUMENTATION GTQ-V

The documents can be downloaded on the product page for GTQ-V at www.lindinvent.com

Document	Comments
Installation instruction	Instructions with commissioning, assembly and, connection.
Commissioning instructions	See the commissioning instruction with parameter settings for climate controller RCXb (SE).
Maintenance instructions	Considered maintenance free.
Connection diagram	Displays connections and connection on circuit boards.
Environmental product declaration	Assessed by Byggarubedömningen and Sundahus in Sweden.
AMA-text	Samlingsdokument Givare (SE).