

INTRODUKTION

The “airy” 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 controller RCX, lab climate controller LCX or an active supply air diffuser.
- Primarily intended for controlling CO₂ levels, with room temperature measurement as optional addition.
- The active supply air diffusers TTC, ISQ and VTD are already equipped with temperature sensors.



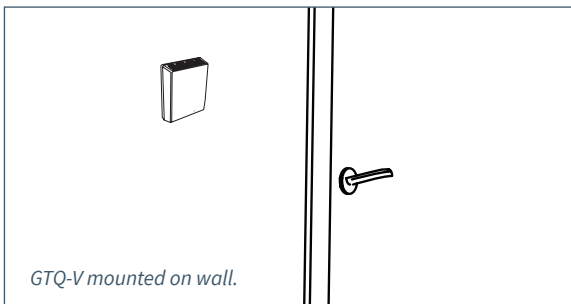
FUNCTION

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.

LOCATION

The temperature measured from a wall mounted sensor is normally an average of heat from the surface of the wall where the sensor is mounted and the surrounding air temperature. To achieve a rapid response from the sensor it is important to place it on a wall surface that is not a thermal bridge and preferably not on walls with a relatively high thermal inertia, such as on concrete pillars.

If you place the sensor right next to a door it will be affected by the corridor temperature. This due to the airflow that is a result of the temperature difference between room and corridor.



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 ABS

Weight: 0,09 kg

Colour: RAL9003

Electrical system

Power consumption: <0,5 VA

CE-marking: Complies with EMC and the low voltage directive.

IP-class: The enclosure holds IP20.

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.se

Document	Comments
Installation instruction	Instructions with commissioning. Assembly, connection and commissioning instructions with control unit.
Commissioning instructions	Parameter settings on RCX and LCX climate controllers, see Installation instructions with commissioning.
Maintenance instructions	Considered maintenance free.
Connection diagram	Displays connections and connection on circuit boards.
Environmental product declaration	Assessed by Byggvarubedömningen and Sundahus.