

## Product description

# GTQV – Temperature and CO<sub>2</sub> sensor [Wall mounted]

Version B12

## Introduction GTQV

GTQV is a combined temperature and carbon dioxide sensor for indoor wall mounting.

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

- Is intended for use together with room climate controller RCX, lab climate controller LCX or an active supply air diffuser.
- Is primarily intended for controlling the carbon dioxide concentration in the ventilated room, with an option of additional room temperature measurement.
- The active supply air diffusers TTC and VTD are already equipped with a sensor for room temperature measurement.

## Function

The combined sensor gives a 2-10 V output signal for the range 400-2000 ppm carbon dioxide, while 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 radiation from the wall surface on which 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.

Bear in mind that a location on the installation space by switches etc. immediately adjacent to a door opening means that the sensor will be affected by the temperature in the corridor. The airflow that occurs as a result of the temperature difference between room and corridor affects the sensor.



GTQV – Wall temperature and CO<sub>2</sub> sensor

## Technical specifications

### General

#### Temperature sensor

Sensor with thermistor of the negative temperature coefficient (NTC) type, connected to electronics that give an out signal in the range 0-10V.

#### Carbon dioxide sensor

Self calibrating,  
Automatic Baseline Correction (ABC).  
The CO<sub>2</sub> module is connected to electronics that give a 2-10V out signal.

#### Accuracy

Temperature ± 0.5 K  
Carbon dioxide level: ± (70 ppm + 3% of displayed value)

#### Dimension

103x82x30 mm

#### Material

Encapsulation in ABS

#### Colour

RAL9003

## Electrical system

### Supply

24 VAC

### Output

<0.5 VA

### CE marking

Complies with EMC and the Low Voltage Directive

### IP class

IP20 encapsulation

### Output signals

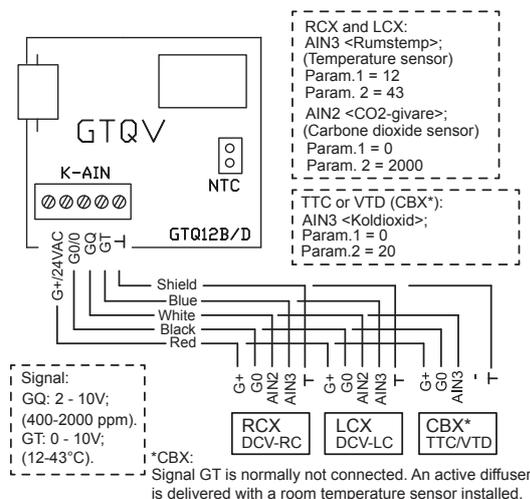
1 x 0-10 V for the range 12-43°C, linear.

1 x 2-10 V for the range 400-2000 ppm, linear.

RCX = Room climate controller (DCV-RC)

LCX = Lab climate controller (DCV-LC)

CBX = Connection box for TTC and VTD (Active diffusers)



Connection diagram GTQV.

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## Additional product documentation GTQV

Table 1: Additional documentation for GTQV can be obtained via links on the product's website under Products at [www.lindinvent.se](http://www.lindinvent.se)

Document	Available	Not available	Comments
Installation Instruction	●		mounting on wall and connection
Start-up instruction		●	Not applicable
Maintenance instruction		●	Regarded as maintenance-free
External connection diagram	●		
Environmental product declaration	●		Assessed by Byggarbetsinspektionen and Sundahus
User information		●	Not applicable
Modbus list		●	Not applicable
AMA text	●		

Product documentation can be downloaded via  
[www.lindinvent.se/produkter/](http://www.lindinvent.se/produkter/)



### Contact

[www.lindinvent.se](http://www.lindinvent.se)  
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