

Product description

GTQV – Temperature and CO₂ 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 CO₂ 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 CO₂ module is connected to electronics that give a 2-10V out signal.

Accuracy

Temperature ± 0.5 K

Carbon dioxide level: $\pm (70 \text{ ppm} + 3\% \text{ of displayed value})$

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

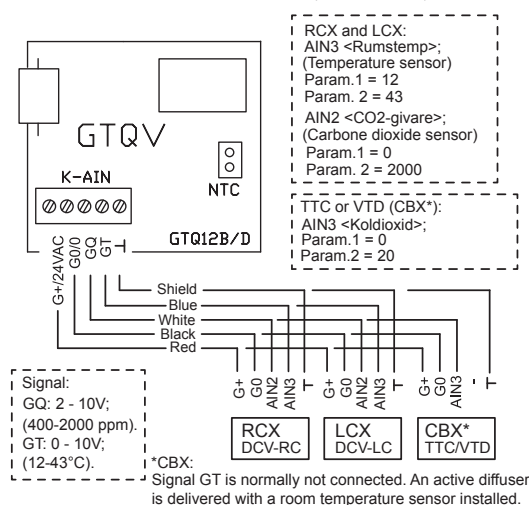
1 x 0-10 V for the range 12-43°C, linear.

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.

Product description

GTQV – Temperature and CO₂ sensor [Wall mounted]

Version B12

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

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 Bygghälsömdöningen and Sundahus
User information		●	Not applicable
Modbus list		●	Not applicable
AMA text	●		

Product documentation can be downloaded via
www.lindinvent.se/produkter/



Contact

www.lindinvent.se
Tel: 046-15 85 50

Lindinvent – Smarter indoor climate. Greener buildings.

The company offers products and systems for controlling ventilation, lighting, solar shading and local utilization. Equipment and climate solutions are being developed for offices, schools, hospitals, laboratories and similar working environments. Lindinvent's systems work together to provide high indoor comfort and the lowest possible energy use.