



Temperature and carbon dioxide sensor GTQ-D.

**INTRODUCTION**

GTQ-D is a combined temperature and carbon dioxide sensor for duct installation. The sensors are housed in a common casing with an insertion tube.

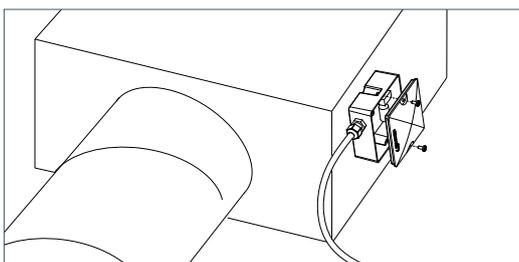
**FUNCTION**

The sensor is an accessory for Lindinvent’s room climate controllers or one of Lindinvent’s active supply air diffusers.

- Intended for regulating carbon dioxide content, with the possibility of also measuring room temperature.
- Active diffusers already have a room-temperature sensor; GTQ-D’s temperature sensor signal is not normally connected to the diffuser.
- The temperature sensor provides an output signal of 0-10 V for the range 12-43°C, and the carbon dioxide sensor provides an output signal of 2-10 V for the range 400-2000 ppm to the connected controller.

**PLACEMENT**

To accurately represent room temperature, the sensor should be placed as close to the extract air unit as possible. A location close to the unit is particularly important when air stagnates in the duct during downtime.



GTQ-D installation on extract air unit.

**TECHNICAL SPECIFICATIONS**

**General**

Temperature Measurement: The sensor with an NTC thermistor type is connected to electronics that provide an output signal of 0-10V.

Carbon Dioxide Measurement  
 Measurement range: 400-2000 ppm  
 Accuracy: Temperature: ± 0.5 K  
 Carbon dioxide level: ± (70 ppm + 3%) with background calibration against 400 ppm

Dimensions: L110xB90xH100 mm  
 Length(L) with gland and height(H) with insertion tube  
 Material: Casing in PS  
 Weight: 0.1 kg  
 Color: Polar white  
 IP Class: IP31.

**Electrical System**

Power Supply: 24 VAC  
 Power Consumption: <1 VA  
 CE Marking: Complies with EMC and low voltage directives.

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

**SUPPLEMENTARY PRODUCT DOCUMENTATION FOR GTQ-D**

Documents can be accessed on the product page for GTQ-D at [www.lindinvent.com](http://www.lindinvent.com)

Document	Comment
Installation Instructions	Instructions on commissioning, hole cutting, and connection.
Commissioning Instructions	For parameter settings on controllers, see the Installation Instructions (SE).
Maintenance Instructions	Considered maintenance-free.
External Connection Diagram	Shows connections and wiring on the circuit board.
Environmental Product Declaration	Assessed by Byggarubedömningen and Sundahus in Sweden.
AMA Text	Comprehensive document for givare (SE).