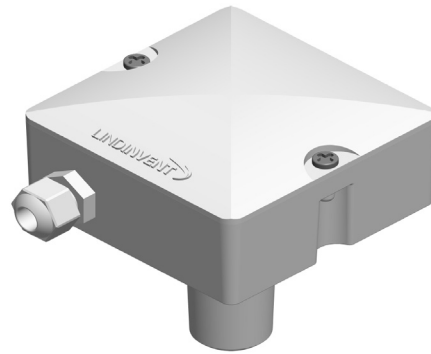


INTRODUCTION

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

- It is intended to be used with the room climate controller RCX, the lab climate controller LCX, or one of Lindinvent's active supply air terminals.
- Primarily designed to regulate the carbon dioxide level in the space, it also has the capability for room temperature measurement.
- When connected to active terminals equipped with room temperature sensors, the temperature sensor signal from the GTQ-D is not connected to the terminal.

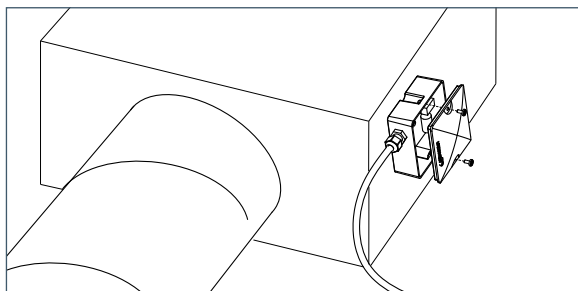


FUNCTION

The temperature sensor provides an output signal of 0-10 V for the range of 12-43°C, and the carbon dioxide sensor provides an output signal of 2-10 V for the range of 400-2000 ppm to the connected controller.

PLACEMENT

For accurate room temperature measurement, the sensor should be placed as close to the exhaust air terminals as possible. Placement near the exhaust air terminals is particularly important as air remains still in the duct during operational stops.



GTQ-D installation on exhaust air terminal.

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: $\pm (70 \text{ ppm} + 3\%)$ with background calibration against 400 ppm

Dimensions: L110xB90xH100 mm
Length(L) with gland and height(H) with insertion tube

Material: Casing in ABS

Weight: 0.1 kg

Color: Polar white

Electrical System

Power Supply: 24 VAC

Power Consumption: <1 VA

CE Marking: Complies with EMC and low voltage directives.

IP Class: The casing is rated IP31.

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

Document	Comment
Installation Instructions	Instructions with commissioning. Hole cutting in duct/terminal box, connection, and commissioning with the control unit.
Commissioning Instructions	For parameter settings on controllers, see the Installation Instructions.
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 sensors.