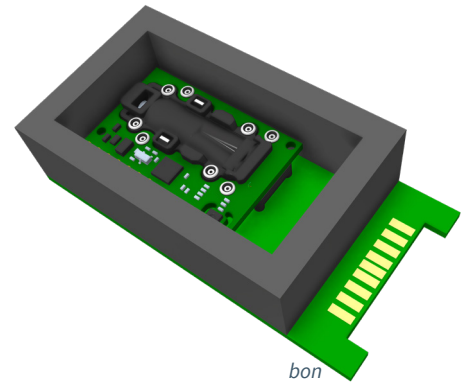


INTRODUCTION

The GQH-I is a carbon dioxide and humidity sensor designed for installation in the active supply air devices ISQ, ISQ-F, and ISQ-V.



APPLICATIONS

The sensor is used to monitor the air quality in the space serviced by the device.

- The GQH-I provides measurements of carbon dioxide levels in the inhaled air. Based on these measurements, supply air volumes can be adjusted to meet specified threshold values. Carbon dioxide measurement can also be used to estimate the number of people present in a space.
- Humidity measurement can be utilized to control the indoor climate in environments that counteract aerosol particle spread and reduce the risk of bacterial growth.

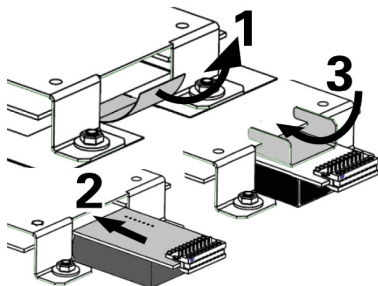
INSTALLATION AND CONNECTION FOR ISQ/ISQ-F

Note: The device must be de-energized when connecting the GQH-I!

A cable and mounting plate are included upon delivery.
1: Remove a protective film on the inside of the diffuser cover, beneath the electronics holder, at the location for the expansion card attachment.

2-3: Insert the GQH-I and secure the module with the mounting plate. Ensure that the unit is parallel with the diffuser plate.

Connection: Via cable to the expansion card port according to the connection diagram.



Installation of the GQH-I in the expansion module location on the inside of the diffuser cover for ISQ and ISQ-F.

TECHNICAL SPECIFICATIONS

General

Carbon Dioxide Measurement

Measurement range: 400 - 10,000 ppm

Accuracy: $\pm (30 \text{ ppm} + 3\%)$ with background calibration against 400 ppm

Weight: 30 g with cable and mounting plate

Dimensions: 69x35x17 (LxWxH in mm)

Humidity Measurement

Measurement range at 25°C

Relative humidity: 0 - 100% RH

Accuracy (at 25°C and 50% RH)

Relative humidity: $\pm 5\%$ RH

Absolute humidity: $\pm 1 \text{ g/kg}$

Dew point: $\pm 1 \text{ K}$

Cabling:

Cabling Included

Material

Circuit board: FR4

Cabling: Polyolefin, Halogen-free (EN 60754-1/2, IEC 60754-2)

A collar of cellular rubber is applied to the unit as part of the mounting mechanism.

Electrical System

Power supply: 5 V

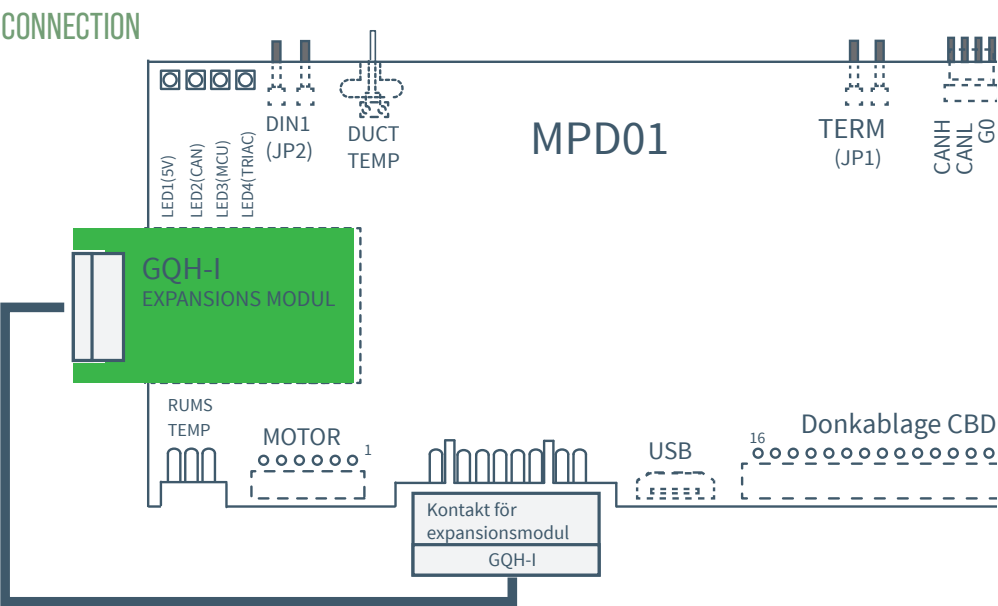
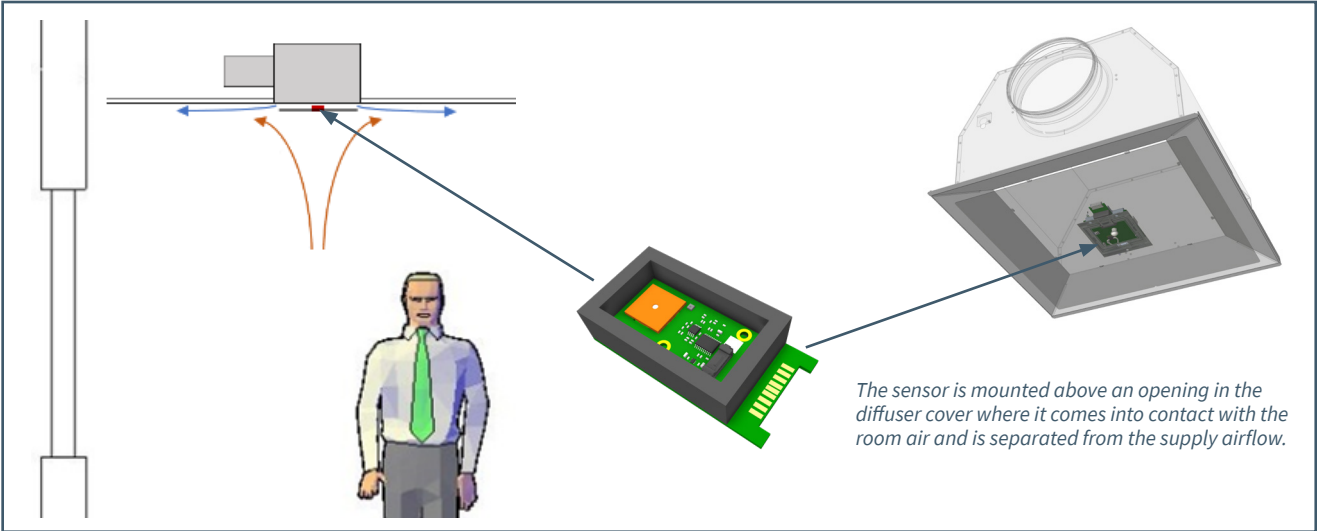
Power consumption: 0,1 VA

CE-marking: Complies with EMC and low voltage directives

IP-rating: IP10

Inputs and Outputs

Communication bus: I2C



Section showing the connection of the GQH-I to the contact on the circuit board of the ISQ under the circuit board holder on the diffuser cover.

SUPPLEMENTARY PRODUCT DOCUMENTATION

Documents are available at www.lindinvent.com

Documents	Comment
Installation Instructions	Refer to the instructions in this product description for the GQH-I.
Commissioning Instructions	See commissioning instructions for the control unit the presence sensor is connected to.
Maintenance Instructions	Considered maintenance-free.
External Connection Diagram	Shows connection to the circuit board on the diffuser plate of the active supply device.
Environmental Product Declaration	For assessment by Byggarubedömningen in Sweden.
AMA-text	New version coming soon.