

### INTRODUCTION

GT-V and GTN-V are temperature sensors designed for wall mounting in room environments. The sensors are housed in a "ventilated" enclosure, providing the shortest possible time constant for measuring temperature changes.



The wall-mounted room temperature sensor GT-V. The GTN-V sensor has an identical enclosure.

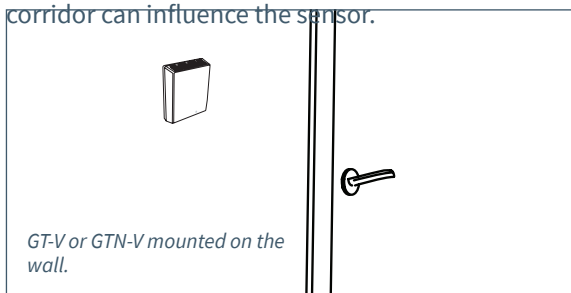
### FUNCTION

The wall-mounted temperature sensor GT-V is connected as an accessory to a room climate regulator and provides an output signal of 0-10 V for the range of 12-43 °C. GTN-V is a simplified version of GT-V intended for use with the SBTb thermostat actuator controller.

### PLACEMENT

The measured temperature from a wall-mounted sensor is primarily an average of the heat radiation from the wall surface where the sensor is mounted and the surrounding air temperature. For a sensor with a quick response, it is important to place it on a wall surface that is not a thermal bridge and preferably not on a wall with relatively high thermal inertia, such as concrete columns.

Placing the sensor near installations like power switches or directly by a doorway can be affected by corridor temperature. Airflows resulting from temperature differences between the room and the corridor can influence the sensor.



### TECHNICAL SPECIFICATIONS

#### Temperature Measurement GT-V

Sensor: NTC thermistor with electronics providing an output signal between 0-10V.

Measurement Range GT-V: 12-43 °C

Accuracy GT-V:  $\pm 0.5$  K

#### General

Dimensions: 103x82x30 mm

Material: ABS enclosure

Weight:

GT-V: 0.09 kg

GTN-V: 0.07 kg

Color: RAL9003

IP Rating: Enclosure is IP20

#### Electrical System

Power Consumption: <0.5 VA

CE Marking: Complies with EMC and Low Voltage

Directive. Output Signals GT-V: 1 x 0-10V for the range 12-43°C linear

#### GTN-V

GTN-V is a variant of GT-V where the electronics for a 0-10V active sensor signal are replaced with a circuit board for 2-wire connection of a passive NTC sensor. GTN-V is designed as an accessory for the SBTb thermostat actuator controller.

### ADDITIONAL PRODUCT DOCUMENTATION

Documents can be accessed on the product page for GT-V & GTN-V at [www.lindinvent.com](http://www.lindinvent.com)

Document	Comment
Installation Instructions	Wall mounting and connection of GT-V. See also the external wiring diagram.
Commissioning Instructions	See the commissioning instructions for the connected control unit.
Maintenance Instructions	Considered maintenance-free.
External Wiring Diagram	Shows connections and wiring to the circuit board. See the connection label inside the enclosure cover.
Environmental Declaration	Assessed by Byggarubedömningen and Sundahus in Sweden.
AMA-text	Collection document Sensors