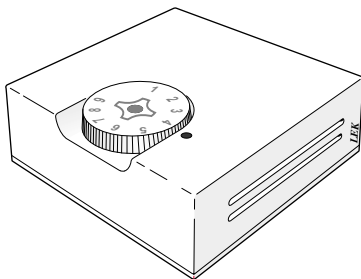


## General

ROOM SENSOR RG 20 is used together with NIBE FIGHTER 1110, FIGHTER 1210 and FIGHTER 1310. If the room temperature drops or rises, the room sensor senses this and compensates the flow temperature to the radiators or floor loops to maintain the required temperature in the room. The room sensor corrects the temperature in connection with the reconnection of disconnected power output, for example, centralised load control. The room sensor must be positioned with care to work correctly, see the Installation section.



## Installation

It is important that the room sensor is not disturbed by any other heat source, for example, lamps, TV or other warm objects. Curtains should not block the sensor.

Install in a neutral position where the set temperature is required. A suitable place is on a free inner wall in a hall approx. 1.5 m above the floor. However, the sensor must not be prevented from measuring the correct indoor temperature, for example, by placing in a niche, between shelves, behind a curtain, above or close to a heat source or the like. Also consider any draughts from exterior doors. Neither must the unit be affected by solar incident radiation.

The conduit should be sealed next to the sensor to prevent a draught in the pipe, which could affect the sensor.

Connection to 4-wire cable, for example, 4 x 0.25 LiYY (<100 m). The sensor cable must not be routed parallel with power cable.

## NOTE!

*Work behind screwed covers may only be carried out under the supervision of a qualified installation engineer.*

## Setting

If there are thermostat valves on the radiators in the same room as the room sensor these should be fully open in order for the room sensor to work correctly.

However, radiator valves in areas such as bedrooms, where a slightly lower temperature is required, should be set to the required temperature.

The required temperature can be set using the knob on the room sensor unit. The scale is graduated 1 – 9. Reading the set temperature can be done on the heat pump's display screen.

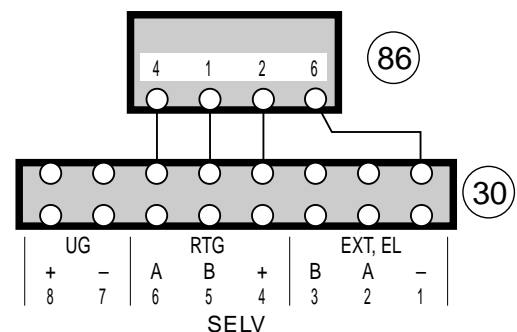
The use of the room sensor RG 20 also requires the Room comp value to be set on the heat pump's control computer, see the Installation and Maintenance Instructions for respective heat pumps.

## Mechanical design

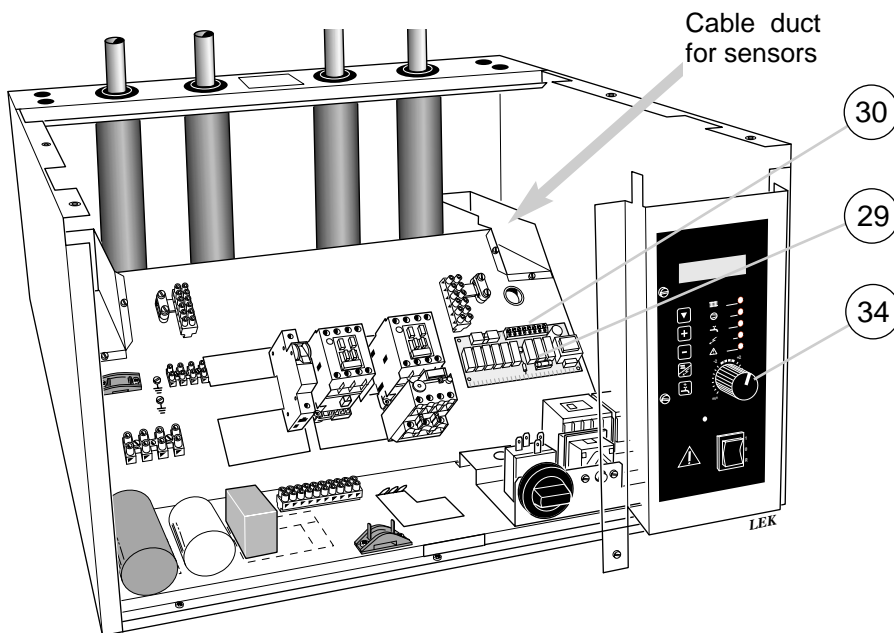
Room temperature sensor RG 20 is intended for wall mounting. Installation can either be surface mounted or using recessed connection boxes. The connection cable can be either recessed or surface mounted.

The enclosure is manufactured of plastic and consists of a bottom section with terminal blocks and components for setting and measuring the room temperature and a knob to set the required temperature.

## Wiring diagram, all versions

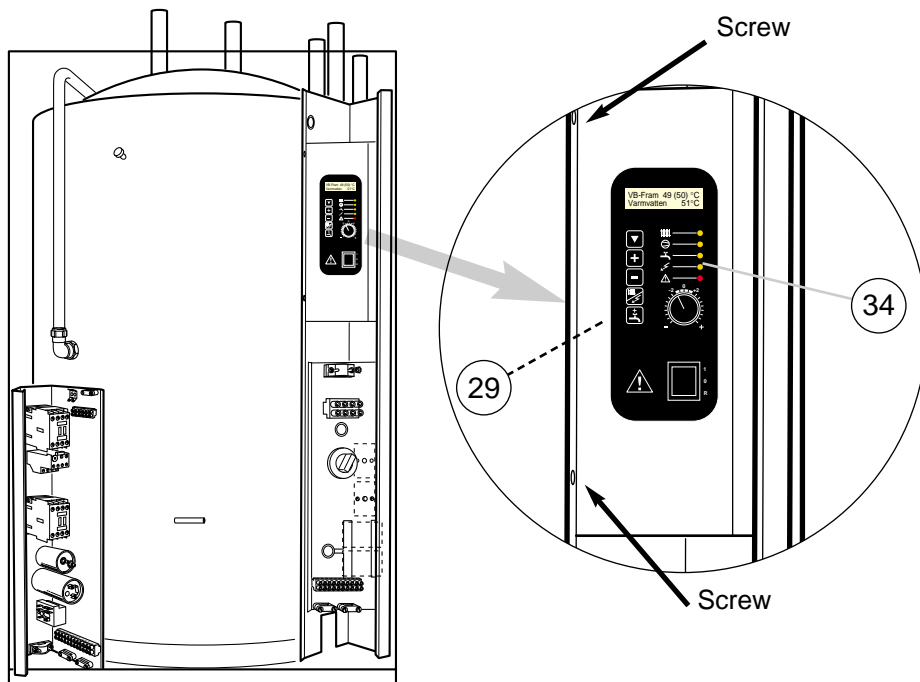


## Connecting FIGHTER 1110/1310



Loosen the screws holding the front panel and lift it off so the electrical connection area is accessible. The relay card (29) is now easily accessible to connect the sensor (86) on terminal block (30). See the wiring diagram on the first page for connection details.

## Connecting FIGHTER 1210



Open the top cabinet cover by loosening the screws on the front. Loosen the screws holding the control computer (34) and release the piece from heat pump. The relay card (29) is now easily accessible to connect the sensor (86) on terminal block (30). See the wiring diagram on the first page for connection details.

### List of components

- 29 Relay card
- 30 Terminal block, relay card
- 34 Control computer with display
- 86 Room sensor RG 20

RG 20



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