# 6.3 Settings

### 6.3.1 Setting the CO<sub>2</sub> content

The  $CO_2$  content in the exhaust gas is set using the adjustment knob on the control element. At a constant fan speed, the volume of fuel is controlled by changing the fuel pump cycle.

#### **ATTENTION**

The CO<sub>2</sub> measuring instruments must be calibrated. The heater must be switched off.

- 1. Connect the CO<sub>2</sub> line to the negative terminal.
- 2. Turn the adjustment knob on the control element to mid-position. The heater starts up and automatically assumes partial load mode.

#### **NOTE**

The operation indicator lamp flashes in the same way as for a control unit fault when the heater is ready to be adjusted.

#### **Diesel heaters:**

3. Set the  $CO_2$  value by correspondingly turning the adjustment knob. Turning the adjustment knob anticlockwise reduces the  $CO_2$  value while turning the knob clockwise will increase the value. The measured  $CO_2$  content at partial load (1 kW) must be at 6.6  $\pm 0.5\%$ . After adjustment, the  $CO_2$  content at full load should be  $10.3 \pm 0.5$  vol.%.

#### **Petrol heaters:**

3. The CO<sub>2</sub> content should only be measured with the heater at operating temperature. For this purpose, the heater should be operated for at least 8 minutes. The CO<sub>2</sub> content is then set to 7.3 ±0.5 vol.% at partial load (1 kW). After adjustment, the CO<sub>2</sub> content at full load should be 10.3 ±0.5 vol.%.

## Diesel and petrol heaters:

4. When the  $CO_2$  value is in the permissible range, disconnect the  $CO_2$  line from the negative terminal. This saves the setting.

### **NOTE**

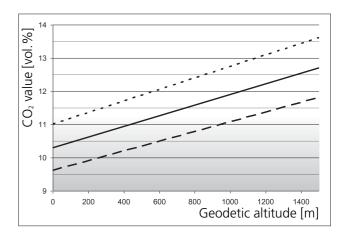
The heater will now run in normal mode again and can be switched off at the control element.

The heater is set at the factory to match the fan motor.

## 6.3.2 CO<sub>2</sub> setting for reference heater

The reference heater is set at the factory to 10.3 vol.%  $CO_2$  at a geodetic altitude of 0 m. To subsequently reset the heater, a  $CO_2$  value must be set as a function of the geodetic altitude as shown in the diagram.

See Section 6.3.1.



CO<sub>2</sub> [vol.%] min. tolerance for operation [vol.%]