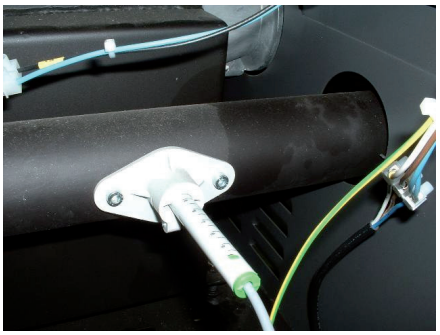
AIR QUANTITY MEASUREMENT IN PELLET STOVES

The heart of a modern pellet stove is its control unit. In addition to the room temperature, the air intake is monitored with an E+E flow sensor.

The control unit of the pellet stove controls the precise interaction between the quantity of fuel and the combustion air. The EE575 flow sensor is installed in the intake pipe by means of a mounting flange. The quantity of the air intake is calculated from the measured air speed in [m/s] and the pipe diameter. Precise control of the combustion air is regulated by the speed-controlled exhaust fan.
The user of the pellet stove can remove the flow sensor for cleaning or re-calibration.

A useful feature is the guide rib on the sensor tube and the matching mounting flange. This defines the alignment of the sensor so that it cannot be accidentally installed against the flow direction.
Heating with pellets protects the



EE575 installed in the intake pipe

environment, because burning wood pellets does not increase the amount of CO2 in the atmosphere.

- ## Application conditions

Measurement range:	0 - 10 m/s
Output:	0 - 5 V
Operation temperature:	Sensor 5 - 30°C, electronics 20 - 60°C
Accuracy	± 5% of measured value

- ## E+E Product

EE575-V2B1K020
Miniature flow sensor for the HVAC sector

Flow sensor in compact stick design. Ideal for applications with little space for installation.
The alignment of the sensor during installation is fixed by a guide rib on the sensor tube and the matching mounting flange. This saves time and prevents incorrect installation.