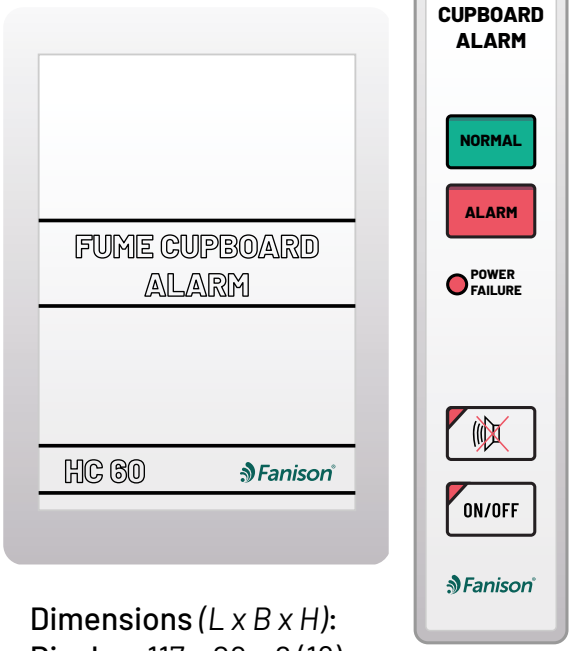
# SYSTEM FL 101

## *FUME CUPBOARD EXHAUST AIR FLOW ALARM SYSTEM*

The alarm system FL 101 monitors air flow of the fume cupboard sash opening.

Display panel with indicator lights and sound signals can be installed in a visible place next to the fume cupboard sash. The alarm has it two separate relays for alarm transfer or for other guidance.

If necessary, the alarm can be certified for power outages with a separate battery.




**Dimensions** *(L x B x H)*:
**Display:** 117 x 29 x 6 (18)
**Sensor:** 110 x 75 x 37

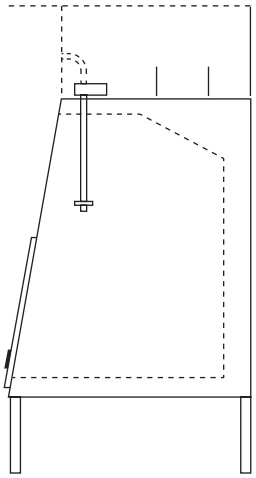
# TECHNICAL INFORMATION

| | |
|---|---|
| Input voltage | 24 V AC/DC ± 25% (Supplied with transformer 230/24 VDC, for |
| Power consumption | socket) 3 VA |
| Alarm area | 0.2-1.0 m/s |
| Accuracy | ±4% or ±0.02 m/s |
| Alarm delay | 0-99 sec. Light and sound<br>0-9.9 min. Relay function |
| Screens | Normal operation - green light<br>Alarm - red light + buzzer (the buzzer can be temporarily switched off from the push button. Permanent switch-off is also possible.) |
| Output connection | 2 pcs. replacement relay max. 60VDC/1A |
| Battery (if required) | 1,2 V NiMH AAA rechargeable battery (Min. operating time 6 hours) |
| Encapsulation | White ABS plastic IP44 |

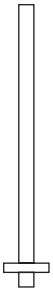
## DESCRIPTION OF FUNCTIONS

The best location for the position measuring part HC 60 is on the side wall of the fume cupboard at the height of the upper edge of the closed sash, halfway between the rear wall and the sash. Alternatively, install the measuring part on the roof of the fume cupboard as close to the side wall of the fume cupboard as possible and install the supplied pipe connector on the side wall as shown in the picture. The pipe can be shortened if necessary.

The display part is installed in a suitable place between the front wall and the glass of the sash or in another suitable place. If the upper part of the fume cupboard is tightly enclosed, also install a pipe measurement from the part to the room.



**Pipe:** White PVC
**Length:** 600 mm
**Outer diameter:** 21 mm

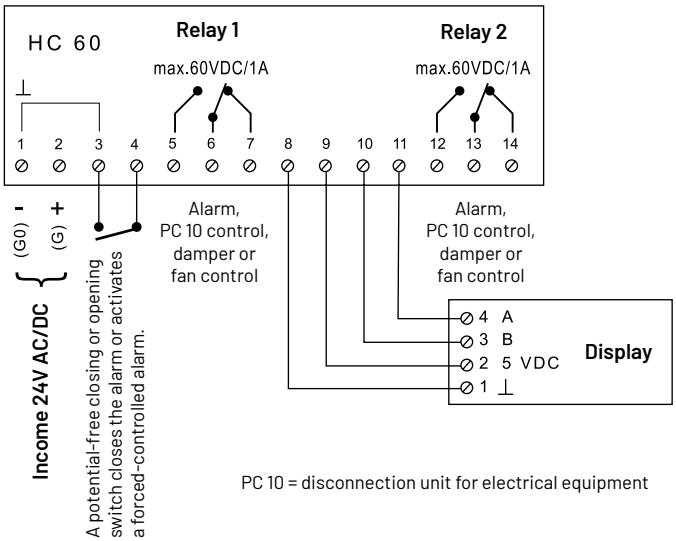


## ADJUSTMENT AND PROGRAMMING

Adjust the fume cupboard sash/air flow so that it has the desired air flow for the alarm.

Next, program the parameters of the measuring part HC 60 as desired and calibrate the alarm (parameter P16) according to the separate adjustment instructions.

## CIRCUIT DIAGRAM




PC 10 = disconnection unit for electrical equipment