

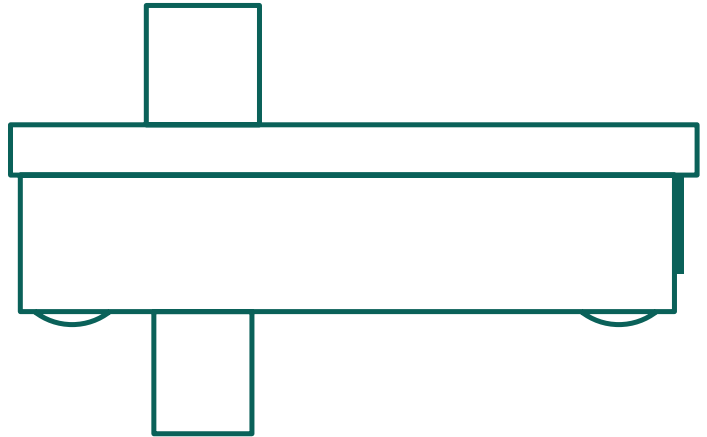
HPS 50

FUME CUPBOARD

NEGATIVE PRESSURE SENSOR

The negative pressure sensor HPS 50 is intended to be installed in a fume cupboard to measure the fume cupboard's negative pressure compared to the room space.

The air flow information is obtained from the sensor in the sash opening of the fume cupboard.



TECHNICAL INFORMATION

Operating voltage	20 VDC (from FHR 210/310)
Power consumption	1 VA
Measurement range	0-2 m/s
Outgoing message	1-10mA
Heat dependence	Max 0.1% of reading/°C (Cal. 20 °C)
Reliability	Max 0.5% of reading
Linearity	±(5% of reading + 0.02 m/s; Cal.0.5 m/s)
Time constant	t 0.67 = 0.1 sec
Operating temperature	0-50 °C
Humidity area	max. 90% RH
Encapsulation	Powder-coated steel, IP 40 (IP 44 on order)

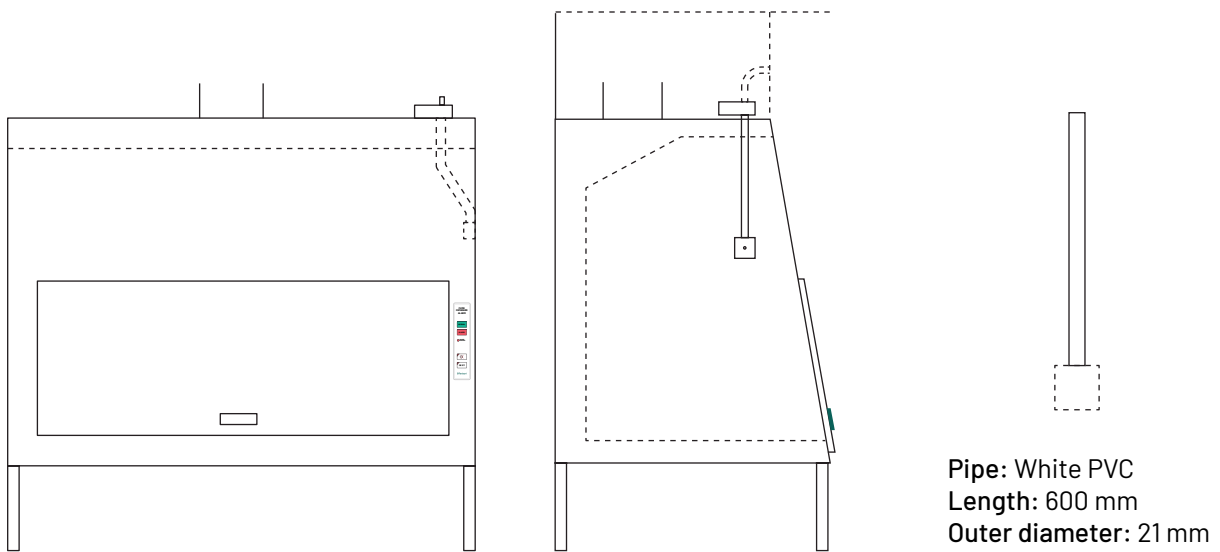
INSTALLATION

The best location for the sensor is the side wall of the fume cupboard at the height of the upper edge of the closed sash, 100 mm back from the front wall.

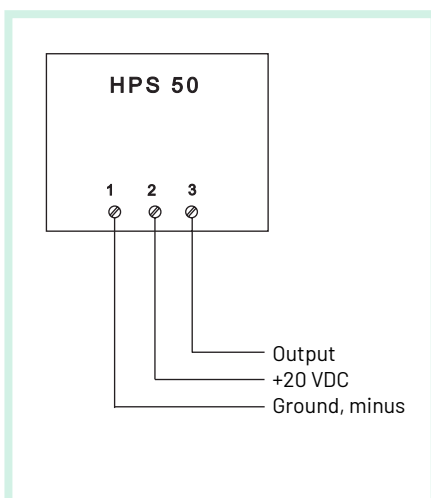
Alternatively, install the measuring part on the roof of the fume cupboard as close to the side wall of the fume cupboard as possible and install the included pipe and connector on the side wall as shown in the picture.

The pipe can be shortened if necessary.

If the upper part of the fume cupboard is tightly enclosed, also install the pipe from the measuring part to the room.



CIRCUIT DIAGRAM



DIMENSIONING [mm]

