Application Report
Flow Sensors

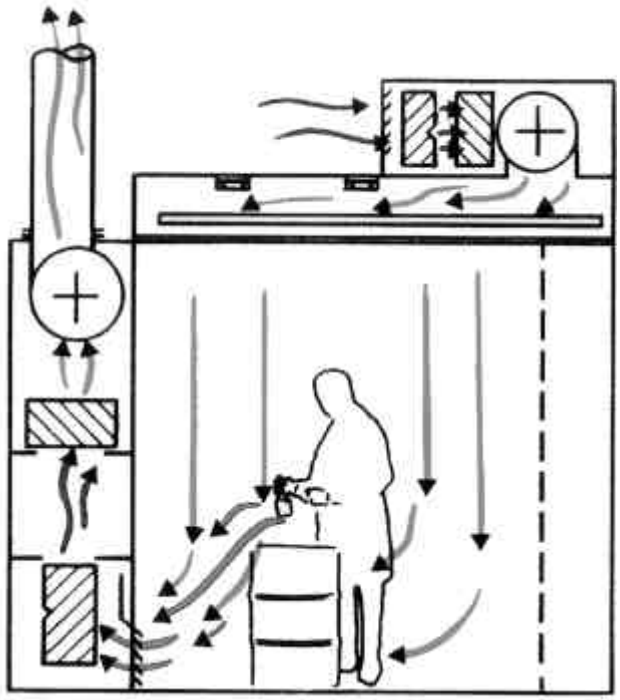
Laminar Flow Workspace

Description of the application:

A continuous air flow from the ceiling to the floor ensures that pollutants evaporating during the manufacturing process are kept away from the operator and are removed from the room through a duct.

If the air flow falls below a minimum level, an alarm signal is given thus forcing the operator to exit from the dangerous area.

Depending on the type of pollutant the exhaust air may be lead back after beeing filtered or may be exhausted completely after having been treated.



Task of the sensor:

Measuring of the speed of the laminar air flow (measuring range 0,1 to 1 m/s).

Sensor type used:

SS 20.501
0..1 m/s 160 mm
0..20 mA

Location of the sensor:

Either in the incoming air tube or under the ceiling at the air outlet.

Branch:

Cleanroom

Reason to choose a SCMIDT sensor:

- ☑ Can even detect lowest air speeds
- ☑ Highly precise measurements with high repeatability
- ☑ Linear output signal
- ☑ Built in signal converter
- ☑ Good performance/price ratio

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