



CONSTANT FLOW SYSTEM—CAV

- For small cleanrooms or laminar air flow units

MULTICONTROLLER E REGULATE AND FLOW SENSOR FOR MAINTENANCE OF CONSTANT FLOW IN CLEANROOM AREAS

This solution is a safe and simple way of maintaining a constant airflow velocity in the downflow area where 0-10 Volt EC motors are used.

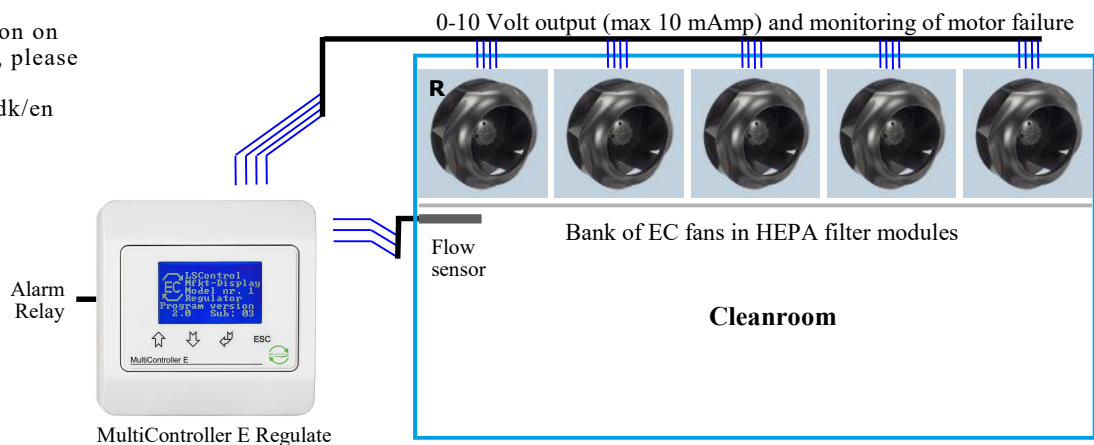
A MultiController is located outside the cleanroom and a flow sensor calibrated for low air velocity is fitted below an EC fan in a HEPA filter module inside the cleanroom. The flow sensor is connected to the EC motor—the **R**eference motor. The required air flow velocity setpoint is entered into the MultiController.

The MultiController will ask the **R**eference EC motor to adjust according to this setpoint to maintain a constant air velocity. The other EC motors will be serial connected to the **R**eference EC motor ensuring that all motors operate at the same speed and that a constant air velocity is maintained in the entire downflow area.

The MultiController is equipped with an alarm relay. In case of motor failure this will be shown in the MultiController display and transmitted via the MultiController alarm relay. The alarm function will be delayed by 10 seconds to avoid alarms in the starting up phase.

THE MULTICONTROLLER:

- > A versatile, programmable and user-friendly Controller.
- > Flexible and easy adjustment of the different parameters.
- > Choose amongst 24V or 230V supply in either an IP 42 or IP 54 enclosure. All equipped with the same user interface.
- > For further information on our MultiControllers, please visit our website: www.shop.lscntrl.dk/en



Item No.: 43406



Item No.: 49341

MultiController E Regulate

MultiController E Regulate has been designed to control a wide range of parameters depending on the connected sensor: temperature, pressure, flow, humidity and CO₂.

Also equipped with integrated scheduler with up to 10 shifts per day, 7 days a week. Alarm relay output available and Modbus slave protocol is integrated in the MultiController.

Flowsensor

Designed for use in cleanroom areas and laminar air flow units. Measuring range 0.2—1.0 m/s, accuracy ±0.06 m/s. Power supply 15-30 VDC.