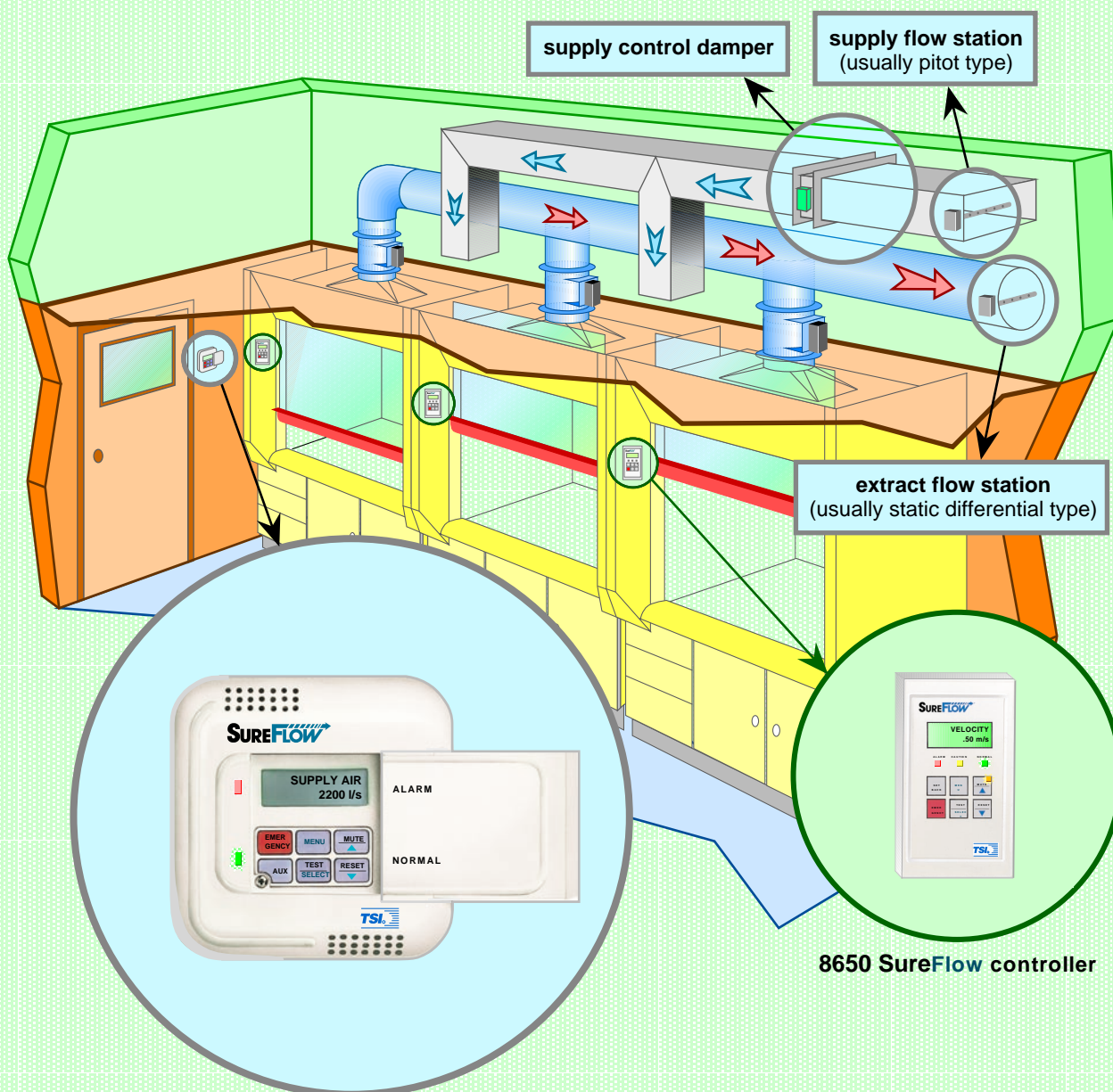


SUREFLOW[®]

laboratory control solutions

fixed offset control (tracking control)



Laboratory supply air flow is controlled by the 8680 (or 8681 or 8682) SureFlow fixed offset (tracking) controller as shown in the figure. The control system consists of the following main components:

- (a) digital control panel with built-in display and alarms
- (b) supply air flow station (in the supply duct)
- (c) supply control damper/actuator
- (d) extract air flow station (in the extract duct)

The extract air flow from the laboratory is measured by the flow stations in the common extract duct and its output signal input to the 8680 controller. Based on the input value, the 8680 controller outputs a control signal to the actuator to adjust the supply damper so as to control the supply air flow, measured by the flow station in the supply duct, with a fixed offset from the total extract air, thus maintaining the laboratory nominally negative with respect to the reference space (usually the write-up or corridor).

8680 or 8681 or 8682 SureFlow controller

8650 SureFlow controller