

Heating Systems

The passenger cabin and cockpit heating system provides sufficient thermal comfort in the airplane.

- **User-adjustable PID controller**
- **User-adjustable temperature range**
- **Software meets the RTCA DO-178 and hardware RTCA DO-160**
- **Unit configurable using a regular PC**
- **Discrete status output**



Control unit function

The airplane heating control unit works as a temperature controller.

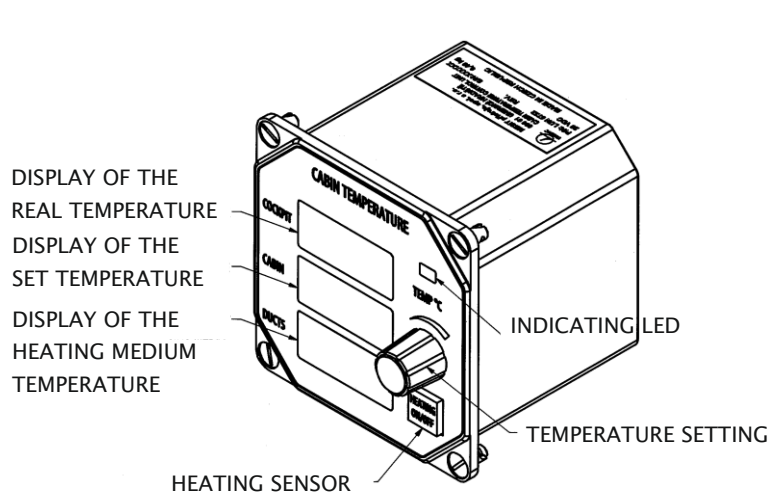
The controller compares the real temperature in the airplane with the required temperature. Based on this comparison, the unit controls the actuator(s) of the heating system.

Description

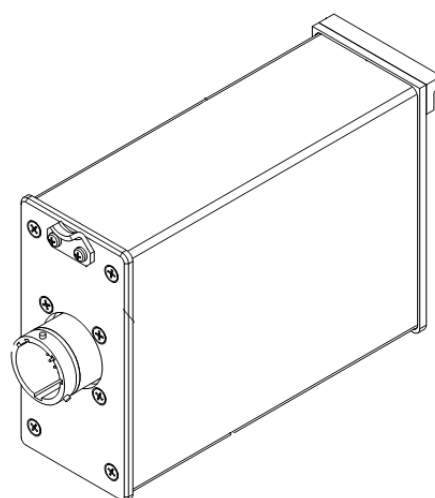
The heating control unit works as a temperature controller.

The control unit consists of a triple segment display that shows the measured and set temperature values in the heating system and indicates fault states.

Another embodiment of the heating control unit is a control cabinet located in the airframe. The crew can use controls for the activation of heating and setting of the required temperature. Other information is displayed by external indicators and provided to parent systems.



Heating control unit with indication



Heating control unit with external indication

Technical parameters

Supply voltage:	22 VDC – 32.2 VDC, emergency 18 VDC
Temperature range:	-55 °C to 70 °C
Weight:	max. 0.4kg
Dimensions:	86 mm × 86 mm × 71 mm
Certification:	RTCA/DO-160G, RTCA/DO-178B

Application

Heating systems are supplied for airplanes L 410 UVP-E and L 410 NG.