

P/S Sensors Heating Control Unit

The probe heating control unit is a part of the airplane power supply checking system. The inputs of the control unit are connected to signals from current sensors located in power supply of airplane heating systems. The unit monitors the state and controls switching of these systems.

- The number of connected sensors is essentially unlimited (currently used unit with 4 or 8 inputs)
- Electronic current sensors with a range of 0–5 A or 0–50 A with an accuracy of $\pm 3\%$
- Discrete error outputs for a parent system
- Hardware meets the RTCA DO-160



Control unit function

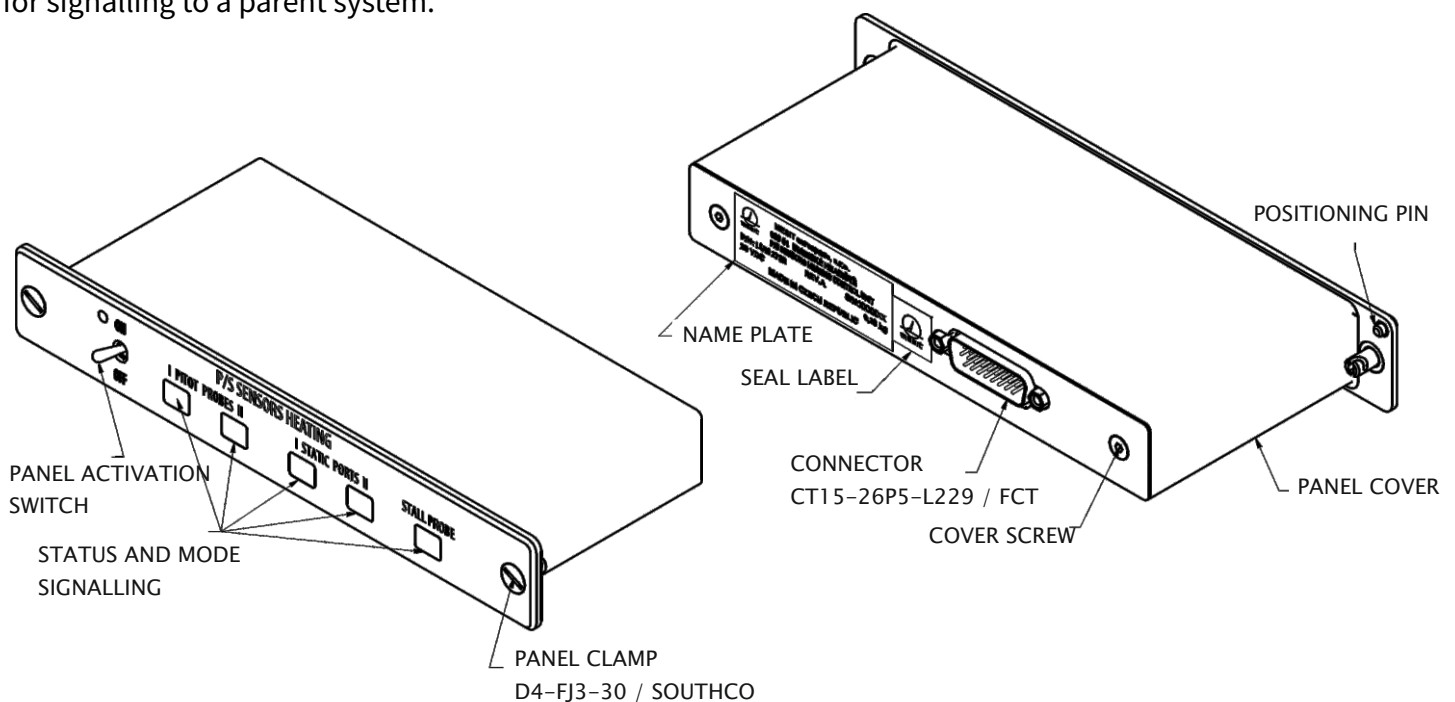
The control unit is a flight instrument.

If the heating system works without errors, only the system activation is indicated and no further setting is required. If the current consumption of heating circuits exceeds the permissible limit or does not reach the required level, a fault is signalled. The faulty circuit is disconnected and the crew is informed of the fault.

Description

The control unit can be in the form of a flight instrument signalling and controlling the heating system.

Another embodiment of the unit is a control block without signalling. Both types feature status signals for signalling to a parent system.



Technical parameters

Supply voltage	22 VDC – 32.2 VDC, emergency 18 VDC
Operating temperature	55 °C to 70 °C
Weight	max. 0.26kg
Dimensions	180 mm × 27 mm × 71 mm
Certification	RTCA/DO-160G

Application

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



MESIT asd, s.r.o.
Sokolovská 573, Mařatice
686 01 Uherské Hradiště
Czech Republic

asd@mesit.cz
T +420 572 522 200

Sales
T +420 572 522 804
F +420 572 522 806

www.mesit.cz

Company Reg. No.: 60709235
VAT Reg. No.: CZ60709235
Commercial Register,
Regional Court in Brno - C 15427
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