Ultra Electronics Controls

Ultra Electronics Controls is the original manufacturer of the Wing Ice Protection Control Unit (WIPCU) for the Boeing B787.

Ultra Electronics Controls provides high integrity electronic control systems for many aircraft including the Boeing B787 Dreamliner and the new Gulfstream G650 business jet.

Ultra Electronics Controls provides worldwide 24/7 spares, repairs and technical support

B787 Wing Ice Protection System
Control Unit Card Numbers:
003-CM-00-0400 (PS)
003-CM-00-0200 (ZC)
003-CM-00-0300 (SC)

Function:
The function of the Wing Ice Protection System (WIPS) is to provide electro-thermal ice protection to an area of the aircraft wing leading edge slats.

WIPS operates simultaneously; both left (port) and right (starboard) wing ice protection to achieve symmetrical wing leading edge ice protection, and so maintains aerodynamic stability.

The aircraft 235VAC 3 phase power supply is switched by the Wing Icing Protection Control Unit (WIPCU). The WIPCU controls the power to the eight (8) heated slats – four (4) on each wing.

There are three (3) types of electronic circuit board in the WIPCU:
- PS - Power Supply (1 per WIPCU)
- SC - Sequence Controller (1 per WIPCU)
- ZC - Zone Controller (24 per WIPCU)

The Power Supply conditions and distributes the dual 28VDC power to the Zone Controller and Sequence Controller. The Zone Controller controls the power switching to the different Heater Mat zones. The Sequence Controller maintains the symmetrical ice protection for the aircraft controlling the switching of the Zone Controllers.
B787 Wing Ice Protection System

Full Support Service
Ultra offers customers a full 24 hour, 365 days a year worldwide spares and repairs service.

Delivery Time
Products are available immediately from stock