



## B787 Wing Ice Protection System Control Unit Card Numbers:

**003-CM-00-0400 (PS)**

**003-CM-00-0200 (ZC)**

**003-CM-00-0300 (SC)**

### 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

### 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

**Ultra**  
ELECTRONICS

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