VINCORION®

QUALITY. PROVEN.

AVIATION

GUARANTEE HIGH FLIGHT SAFETY WITH OUR LIGHTWEIGHT, MULTICHANNEL HEATING CONTROL UNITS

Precision control and monitoring for heating equipment. As air transportation grows on a global scale and gains importance, the theme of greatest significance is, of course, aviation safety. Precision monitoring of an aircraft's equipment is crucial to the safe completion of every takeoff, flight, and landing. That's where VINCORION comes in. At VINCORION, we meet the diverse needs of customers by taking full advantage of our cutting-edge technology, backed up by a long tradition of meeting and surpassing the requirements of our customers with our Heating Control Units. Whether it's controlling and monitoring the windshields of an aircraft's heating function to prevent icing, or the electrical heating elements for water lines, floor panels, fittings, and associated equipment for aircraft, we have the ideal solutions to ensure your aircraft completes every flight without a hitch. VINCORION's state-of-the-art Heating Control Units manage electrical heating elements on aircraft of all sizes and are characterized by their low weight, compact design, high reliability, and energy efficiency.

ENGINEERED TO ENSURE ALL-AROUND AIRCRAFT SAFETY DOWN TO THE LAST DETAIL.

HEATING CONTROL UNITS FOR AIRLINES WITH AIRLINE-SPECIFIC PROGRAMMING.

VINCORION Heating Control Units are highly reliable, lightweight, compact, and energy efficient and work seamlessly with VINCORION Heaters. The control units consistently control and monitor all electrical heating elements and applications, such as air duct heaters, floor panels, or windshields. Our Heating Control Units are scalable and are capable of handling from two up to 32 channels – allowing a great deal of scope for customer requirements, aircraft of different dimensions, and airline-specific programming. The functionality can be adapted – depending on aircraft cockpit, cabin, or cargo layout requirements – by using a configuration module (data unit) that stores all necessary heating parameters. What's more, the Heating Control Units can also be connected to the cabin communication and aircraft maintenance systems. If required, a temperature-setting panel can also be used to select the desired temperature level.

Technical specifications

Weight	from 0.5 kg to 4.0 kg
Heating power of associated heater	up to a maximum of 19.3 kW
Power supply	28 V DC (for control unit) and 115 V AC (360–800 Hz) (for applications)

Other specifications and options are available on request.

MORE THAN THE SUM OF ITS BENEFITS:

- **High flight safety:** The units include ARC fault detection to prevent fire.
- **Optimal space reduction:** The compact multichannel design of the control units makes them ideal for saving both space and weight, which is always the goal in aviation.
- **Meet diverse customer requirements:** The fact that the control units are programmable with external units means that a large range of customers with a broad array of needs can benefit from the technology. Of course, the units also allow for airline-specific programming.
- **Reduced stock levels and lower maintenance cost:** Thanks to the external configuration module, easy replacement for maintenance is possible and only one part number for different controller functionalities is required.
- **Easy connection to different aircraft systems:** CAN Bus, ARINC429, or RS232 interfaces are available.
- **Meets aviation low-weight requirements:** The control units have been engineered to comply with and surpass all aviation norms in terms of weight.
- **Application status information:** Seamless communication with the aircraft cabin system and applications is guaranteed.

IPCU supervisor^{V} (32 channels)

VHCU NG+ (8/12 channels, design model)

VHCU NG (8/12 channels)

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