



THERMO KING

CANAIRE®

BUS HVAC controller providing total climate control for bus systems

One-piece driver panel integrating control interfaces for saloon and driver's area

Multiplex control system for communication with on-board bus controller

IR Ingersoll Rand®

CANAIRE®

Driver's panel, Main module, I/O module

This HVAC control system from Thermo King provides full control over the saloon including floor heating, driver's area and auxiliary pre-heater in one set of control modules.

On electrical vehicles with heat pumps it takes care of the traction batteries thermal management and even control the waste heat pick up.

Due to CAN technology (Controller Area Network) which is used for communication among all the modules, the controller set can be complemented by additional I/O modules as required by your application. This keeps your installation time low.

CANAIRE® product features:

- Multiplex control system for communication with the on-board CAN system to industry standards ISO11898 and/or SAE J1939
- Single integrated driver's panel for driver and saloon area adjustment
- Graphic LCD display
- Real time clock built-into driver's panel
- Expandable with up to three Main modules to process the system control for different zones (articulated bus, double decker, battery cooling on electrical vehicles etc.)
- Expandable according to the application by adding up to eight I/O modules on one vehicle
- Two independently configurable CAN ports => CAN gateway function of the Main module for safe interfacing between Thermo King HVAC and the customer on board.
- Control of auxiliary pre-heater
- Automatic or manual control of temperatures, blower speeds and Fresh/Recirc air
- Thermal management of the traction battery with heat pump solution
- Waste heat pick up from auxiliary heat sources with heat pump solution
- Ambient and 2 set-point temperatures on display for driver and saloon
- Control of latest compressor technology through unloading to save fuel
- Comprehensive Diagnostic and service software tool directly connected via CAN.
- Detailed customer diagnostic and service information available from the driver panel with the Thermo King Alarm Code system



Driver's panel on the dashboard
(188 x 59 mm)



Main module inside the roof-top HVAC unit
(145 x 104 x 31 mm)



Input/Output module for floor heating
or frontbox (120 x 68 x 28 mm)

