

E-CONTROL THE NEW CONTROL PLATFORM FOR BUS THERMAL MANAGEMENT



MODULAR SYSTEM –

E-CONTROL INTERFACE AND E-CONTROL BOX:

E-Control is a modular system of hardware and software. It meets all the requirements placed on a system controller and is already geared for future functions such as telemetry and diagnostics. The system consists of the so-called E-Control Box and E-Control Interface.

E-CONTROL BOX:

The heart of the system is the controller, the E-Control Box. The operating and control signals are transmitted to the system via CAN (controller area network). The software is individually configurable for customer requirements and therefore offers a variety of functions. Vehicle data (telemetry and diagnostics) can be read out via the CAN bus interface at any time. Various settings are available thanks to special control strategies for all drive types. This also allows customer-specific preprogramming such as making the temperature setting or lowering the air conditioning system if required.

E-CONTROL – AT A GLANCE

E-CONTROL INTERFACE:

E-Control is operated via the E-Control Interface. The clear button arrangement and the quick access functions allow an almost intuitive operation of the controller. The E-Control Interface's compact design allows it to be installed quickly and easily into the bus cockpit.

INDIVIDUAL OPERATING ELEMENT AND CAN CONNECTION:

E-Control allows direct communication with the central vehicle control unit, even without the E-Control Interface. In this case, it is a benefit that the E-Control controller can be connected with any one of the user's control units. Also, the system is able to communicate via CAN.

MASTER & SLAVE CONTROL:

The system is controlled via the so-called E-Control Master. Additional E-Control Boxes, so-called slaves, are used to control several vehicle climate components. They are used to extend the inputs and outputs. Master and slaves communicate via the CAN fieldbus.

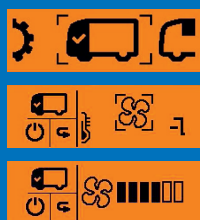
SOFTWARE FUNCTIONS:

The following functions are available via direct selection:

- AC-Roof-mounted system I
- AC-Roof-mounted system II
- Electric AC system
- Driver seat air conditioning system
- Compressor
- Convector
- Heater
- Floor heater
- Special functions
- Diagnostic functions

ADVANTAGES:

- Individually configurable according to customer specifications
- Interfaces to the respective customer system are possible
- Comprehensive functions for use in the complete thermo-management system
- Separate use of E-Control Box is possible (without E-Control Interface)
- Rapid implementation of customer specifications
- It can be reprogrammed at any time in case of changes in customer wishes.



AUTO: The system automatically adjusts to the desired setpoint temperature. The fan speed and the fresh air supply also adjust.

Fan regulation: Manual fan speed setting.

SMOG function: Air circulation can be regulated in response to increasing pollution of the outside air. The fresh air flaps are closed in this case.

Demister function: Switching on the demister function prevents the windscreen from fogging up.

MENU: Back to main menu

USE OF E-CONTROL ACCORDING TO BUS MODELS AND CLIMATE CONTROL REQUIREMENTS

