

24/7 support wherever you need us

Please contact your Bus manufacturer or your local Thermo King Dealer who will provide you with further product information and advice for your Thermo King HVAC system.

FIND THE SUPPORT THAT'S CLOSEST TO YOU
with our online dealer locator: dealers.thermoking.com

FOR FURTHER INFORMATION ABOUT COVID-19, CHECK OUT
THE REHVA, ASHRE AND WHO WEBPAGES.



HVAC CO₂ SENSORS

— Optimising fresh air ventilation in e-buses —

 **THERMO KING**

Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport temperature control solutions. Thermo King has been providing transport temperature control solutions for a variety of applications, including trailers, truck bodies, buses, air, shipboard containers and railway cars since 1938.

For further information
europe.thermoking.com

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TRANE
TECHNOLOGIES

Passenger comfort on buses

Industry and health organizations recommend increasing fresh-air supply and improving ventilation of closed spaces as one of the contributors to decrease potential airborne transmission of viruses.

Thermo King has developed an innovative solution and exceptional passenger comfort for e-buses equipped with Athenia heat pump systems. Thermo King's new sensor optimizes the fresh air ventilation rate and increases the air flow by actively monitoring and controlling the CO₂ levels inside the bus. The sensor helps maintain the right balance between the ventilation rate and energy consumption of the HVAC unit, while also positively impacting the driving range of the electric bus.



Our CO₂ sensor solution helps both driver and passenger to travel in comfort.

Thermo King's CO₂ sensor is a new option for your Athenia™ MkII Electric heat pump range for hybrid and electric buses.



Benefits

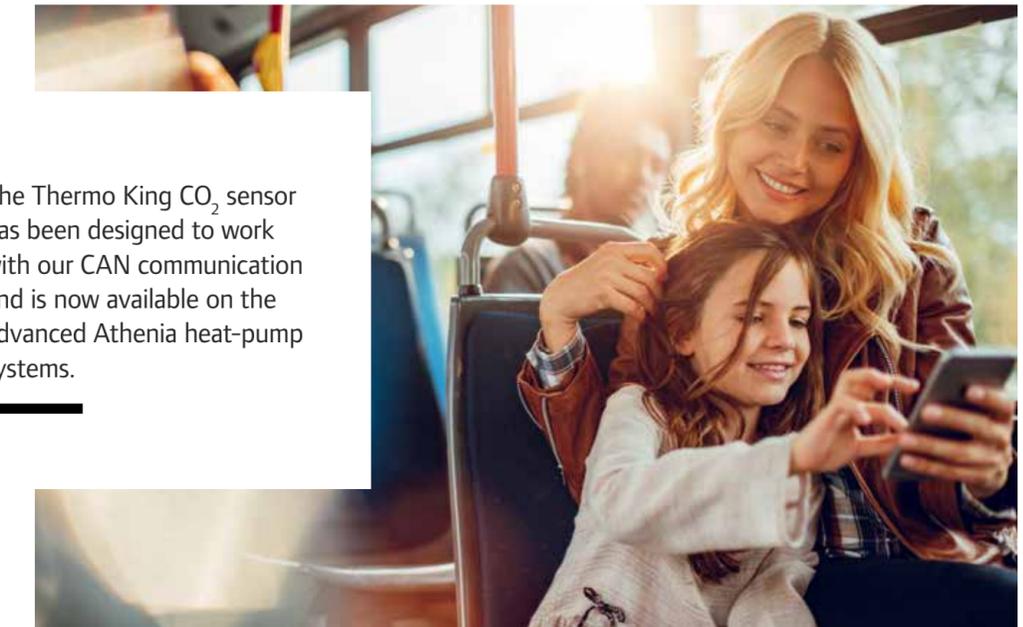
- Monitors the CO₂ level in the bus and controls aerosols by managing fresh air ventilation
- Easy to install in 2 hours
- Non-intrusive design, not visible to passengers
- Fresh air flaps feature a step-less drive for smooth operation and optimal ventilation control
- Thermo King proprietary software monitors the CO₂ levels to provide the ideal balance between energy conservation and ventilation.

Note: If the bus is already equipped with a CO₂ sensor, please contact your Bus manufacturer or your local Thermo King Dealer to obtain the relevant software.



The right balance

Thermo King HVAC systems are designed to optimise energy consumption and hence to extend the vehicle's operating range. This can result in a reduction of fresh air entering the passenger area. By introducing a CO₂ sensor, we can now monitor and control CO₂ levels and fresh air exchange. We do this by precisely controlling the amount of fresh air entering the vehicle so as to balance comfort and energy consumption.



The Thermo King CO₂ sensor has been designed to work with our CAN communication and is now available on the advanced Athenia heat-pump systems.