

ClimaRad Modbus module

With the implementation of larger numbers of ClimaRad devices in a building, the living environment can be drastically improved. However, with increasing numbers, the management and control of the systems will become more confusing and time-consuming. To solve this, the ClimaRad Modbus module has been developed.

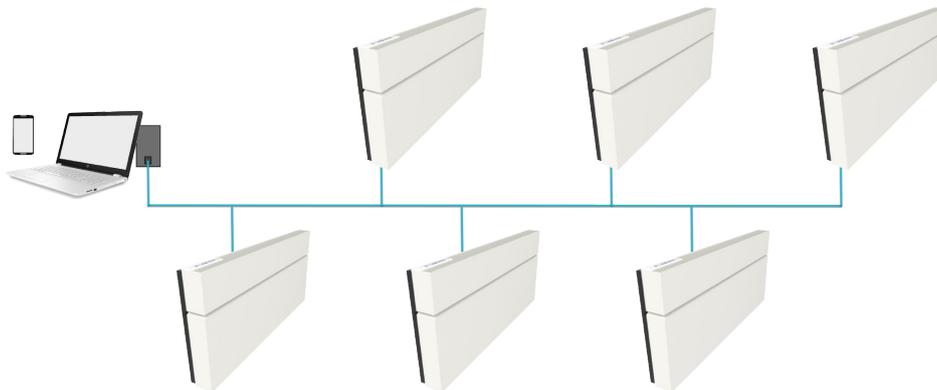
Organised

The ClimaRad Modbus module enables central management of all ClimaRad devices in an Building Management System. The building manager has direct insight into the status of all ClimaRad devices in the building.



What does the ClimaRad Modbus module do?

The ClimaRad Modbus module enables communication via the controller(s) in the building management system with the ClimaRad devices. The status, CO₂- value, indoor/outdoor temperature, humidity and any malfunctions are continuously transmitted for each ClimaRad.



What can I do with the ClimaRad Modbus module?

In addition to the functionality described above for displaying the statuses of the ClimaRad devices, as well as any malfunctions, you can also control all ClimaRad devices remotely with the building management system application with the ClimaRad Modbus module. For example, you can easily pause specific ClimaRad devices or have them ventilate maximally or set desired room temperatures.

Furthermore, it is possible to use the building management system to automatically set the ClimaRad devices to the 'summer night cooling' function at a specific time. This way you can easily and very energy-efficiently cool rooms at night with cool outside air. If a control based on time is not sufficient, a building management system can ensure that all ClimaRad devices automatically switch to night cooling at a certain outside temperature.

Specifications

The ClimaRad Modbus module is an expansion module for the ClimaRad WTW (warmteterugwinning [heat recovery]) units. This Modbus module offers the following additional functionality:

Modbus port for communication with a Modbus RTU controller (Modbus client). The connected ClimaRads function as Modbus servers.

Specifications Modbus port

Connection: screw terminal
Control: Modbus RTU basic (2W Rs485 cable)
Communication: 9600 baud, 1 start bit, 8 data bits, 1 stop bit, EVEN parity, Time out 5000 ms

De voordelen:

- Better overview of larger numbers of ClimaRad devices;
- Real-time communication and monitoring between GBS controller and ClimaRad devices;
- Easy remote control;
- Enables time-controlled programming of ventilation, heating and cooling.

Reference project renovation commercial property Siers in Oldenzaal

The old part of Siers' headquarters has undergone a metamorphosis. Not only the outside of the building, but also the inside has been given a new look. The renovation was all about sustainability and future-proofing.

For the office environment, the choice was made to use ClimaRad Care H1C units in combination with the ClimaRad Modbus module linked to an BMS system. As a result, the units are interconnected and can thus be centrally and remotely controlled.

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