



INTELLIGENT LIVING IN ONE PACKAGE

The Richiger family moved into their new home just over three years ago. While building was going on, they considered a number of different bus systems for the electrical installation before choosing a solution based on EnOcean technology.

By Peter Hartmann, Managing Director, BootUp GmbH

ONE SOLUTION FOR MULTIPLE PROCESSES

The Richigers' timber frame house has a large number of windows fitted with blinds. These serve both as a light shield and as heat insulation. The whole house also features indirect lighting, with a total of 38 dimming circuits. All rooms have individual heat regulating circuits. Wireless room temperature sensors produce the setpoint and actual temperature, and actuators control the heating valves accordingly. The entire inhouse automation is implemented with myHomeControl® visualization and control software. A touchscreen panel PC is positioned at a central point. The screen shows temperatures and the momentary status of lamps, blinds, windows and the garage door. From here it is also possible to directly operate all comfort and convenience functions. In the absence of the family, myHomeControl® continues to govern various processes and automatically lowers the temperature.

PROPER SHADE AT ANY TIME

Automatic control of shade was especially important for the Richigers because of the house's many windows and glass fronts. myHomeControl® shades the individual rooms automatically according to the altitude of the sun (time of the day and year) and light intensity. All blinds are lowered or raised singly and fully automatically. This active shading function enhances living comfort besides supporting temperature regulation and reducing the energy requirement.

EASILY LEFT ALONE

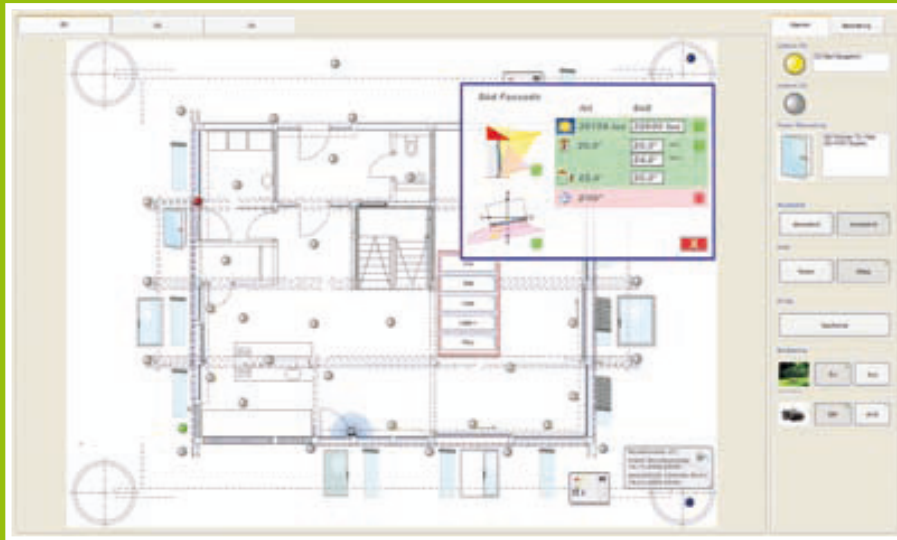
When the family is away, myHomeControl® lowers the temperature in the house. But it is possible to raise it again in good time before the occupants return so that the house is pleasantly warm.

When the whole family is out of the house, the solution creates the impression that someone is at home. To achieve this, it automatically lowers the blinds after dusk. Then light "wanders" through the house, with myHomeControl® turning the lights on and off in different rooms at random intervals. After dawn the blinds are raised again.

CONTROL SOFTWARE COMBINES SECURITY

When you leave the house, you often wonder whether all the windows are closed and all household appliances are switched off. myHomeControl® centrally administers the status of the windows and electric loads. A glance at the touchscreen panel PC is enough to assure you that everything is closed and switched off. The panel tells you which lights are still on or which windows are still open.

Window contacts, window handle sensors and presence detectors are combined with the absence function to create a security system. If a window is opened or a light turned on while you are away for example, myHomeControl® will send you a text message.



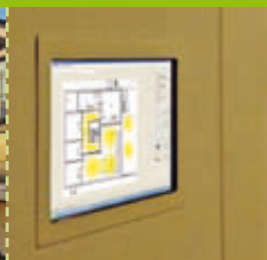
Display of the ground floor, on the left the plan with the visualization and operating elements, on the right the superordinate functions: the dialog to control the shade is open.



During absence



Automatic shade control



Display in house

AN INVESTMENT THAT PAYS

myHomeControl® requires a PC that is constantly running. This will need approx. 30 W, meaning an annual consumption of about 263 kWh or 20 euros. The Richigers' electricity bill is still smaller, despite this expense.

The installation costs – including the EnOcean-enabled devices and the myHomeControl® management system – were only about one quarter of those for a conventional KNX/EIB solution.

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