Integration of heating systems into the KNX system

Connection between KNX and heating systems creates new possibilities

ISE INDIVIDUELLE SOFTWARE-ENTWICKLUNG GMBH

A new building near Dortmund, the house owner has fulfilled his dream of an intelligent house tailored to him and furnishes his home with KNX.

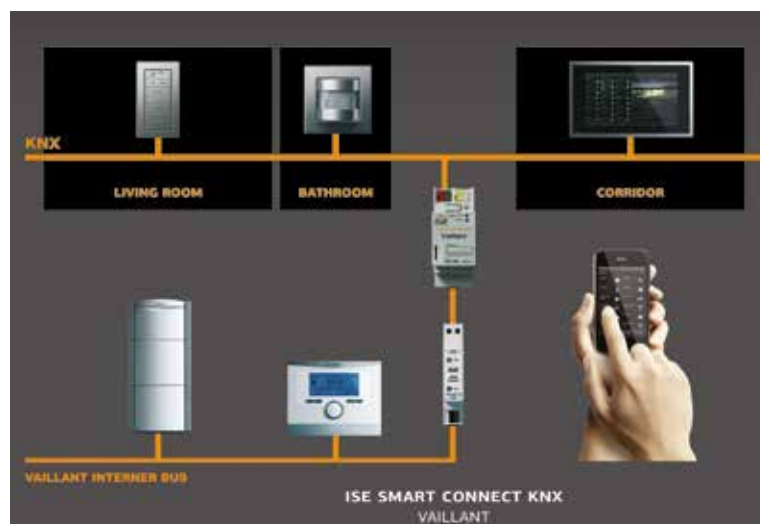To further increase energy efficiency, the heating system was also integrated into the KNX system.

Thus, e.g. now also the heating system can switch to "standby mode". As a result, (if desired) the setpoint values for the room temperature are declined in all rooms and the heating capacity is reduced.

The energy yields of the heat pumps or the solar system can be processed in such a way that they can be easily viewed by a visualization.

The energy yields of the heat pumps and the solar system as well as information about the energy consumption are processed in such a way that a continuous overview of the yield and consumption can be visualized, changes can be detected and the consumption can be optimized.

Also, information about the heating system, e.g. service mode, error messages, date and time, outside temperature, system status are displayed, e.g. it can immediately be acted in the event of a fault.

In combination with the Vaillant multiMATIC 700 heating regulator, the ise smart connect KNX Vaillant and the ise adapter, you can now integrate the heating system, ventilation system and/or the yield and consumption values in building scenarios, visualization and facility management systems.

ISE SMART CONNECT KNX
VAILLANT

Possible application scenarios

- **Control the heating upon need:** From now on, times and setpoints for heating and domestic hot water can be configured and updated quickly and easily via a visualization or any other sensor device. This saves energy as the system only works if required.
- **Automatic ventilation:** The ventilation system starts automatically when leaving the house, the house owner returns to a pleasant room climate.
- **Short-term long night:** The automatic night operation mode can be delayed at your fingertip so your guests feel comfortable also later in the evening or even early in the morning.
- **Display yield and consumption values**
  Output values of solar system and heat pump
  Consumption values of water heating and heating (electricity, gas)

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