

Smart grid ready heat pump

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SG Ready certification for heat pumps can be sustainably optimized with intelligent IP relays. Relays contribute to the effective implementation of the SG Ready functionality of heat pumps and enable efficient energy use throughout the smart home or industrial plant.

The IP relays Expert Net Control 2302 and 2304 from GUDE support home and industrial owners in controlling their heat pump systems.

Discover our SG Ready IP relays

SG Ready (Smart Grid Ready) is a certification in Germany, Austria and Switzerland for heat pumps that shows that they can be integrated into an intelligent power grid (smart grid). Digital interfaces allow smart grids to control the heat pumps flexibly, e.g. during periods of high electricity production from renewable resources or low grid load. This helps to stabilize the power grid and balance load peaks.

Heat pumps are widely used as heating and hot water systems in German buildings. Around 356,000 heat pumps were sold in 2023. The digital link to the smart grid allows heat pump operation to be optimized automatically. For example, the heat pump can be activated at times of low electricity prices or high electricity production from renewable resources such as wind or solar power. In phases of high grid load, on the other hand, when many consumers require electricity, the heat pump can reduce its output or temporarily cease operation. This helps to stabilize the grid load and avoid overloads.

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Many heat pumps are also linked to solar systems. These can work together via the smart grid interface, for example to tap excess energy from the solar system and use it for heating. With this technology, the hot water system can also be heated with solar energy if the consumer uses it.

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