



Kieback&Peter

**EN:HYBRID – THE INTELLIGENT
PACESETTER FOR HYBRID
SYSTEMS**

Paving the way for your climate goals

PART OF THE CO₂ REDUCTION ROADMAP

INTEGRATION OF SUSTAINABLE GENERATORS

With its CO₂ Reduction Roadmap, Kieback&Peter offers a package of solutions for reducing buildings' CO₂ emissions, and en:hybrid is a crucial cornerstone in this regard: The solution serves as a higher-level control system for efficiently integrating climate-neutral energy in a multivalent heating or cooling system. en:hybrid therefore marks another crucial contribution to making the heat transition a success.



The pacesetter for a successful heat transition: for smooth interplay between a multitude of heat or cold sources.

In more and more buildings, the temperature is being set by multiple heat or cold generators with a whole range of different technologies. This trend is gaining even more speed with the heat transition. Alongside conventional gas or oil burners, for instance, an ever increasing number of additional heat generators based on renewable energy are being used for heating – including solar thermal systems, wood burners and heat pumps. This helps protect the climate – but only with a smart higher-level control system such as en: hybrid can such multivalent systems be operated efficiently and economically. en:hybrid works proactively, using sensors to continuously monitor the entire system and making targeted control interventions to ensure that each connected generator is always operated at its own optimum operating point.



en:hybrid orchestrates the plant room: so each generator can provide its optimal performance.

Without the right control system, hybrid systems for heating or cooling are like a chaotic orchestra without a conductor, and the result is usually poor: peak load boilers start up unnecessarily often and wear out quickly, buffer storage systems are not charged at the optimal times, thus losing out on solar heat from solar thermal energy, for instance, while flow temperatures are kept unnecessarily high, wasting expensive primary energy and making the use of heat pumps more difficult. The holistic, manufacturer-neutral en:hybrid system controller creates order here, providing operation that is measurably more efficient at a comparatively low investment cost. This is because en:hybrid brings every generator into play at the optimal time for getting the most out of it.



Secure demand-based supply: efficiency for a better future.

en:hybrid can optimize the interaction between any number of heat or cooling generators and buffer storage devices in a system to ensure that the heating or cooling supply always meets any level of demand efficiently. The smart control system is suitable for both existing systems and new installations, regardless of the manufacturer. Since weather forecasts can be incorporated into the control system as well, en:hybrid can also make sure that storage systems are only charged when there is forecast demand, for instance.



Control pays off: en:hybrid can save primary energy in the long term.

The specialists for smart building automation at Kieback&Peter have been working on the interconnection and optimal control of all kinds of heating and cooling generators since 1927. en:hybrid is one of these tried and tested solutions, and was used to optimize the efficiency of boiler cascades for many years before the advent of the heat transition. Once in operation, the control system saves a considerable amount of energy, which can be maximized by optimizing the system hydraulics at the same time.



Minimal outlay for major benefits: future-proofing from a single source

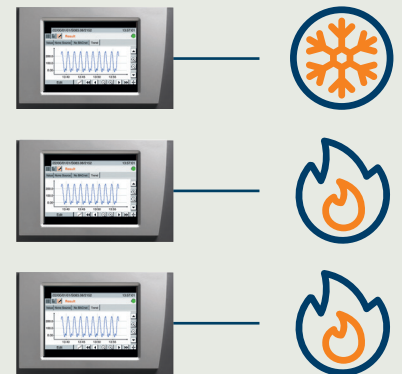
en:hybrid makes buildings ready for the heat transition – and lets you meet the future legal standards of building automation level B in your central heating or cooling systems.

Like all services from Kieback&Peter, en:hybrid offers you a comprehensive solution that constitutes a secure long-term investment. To do so, the automation experts analyze your existing plants, develop a tailor-made concept, provide an expert installation and ensure that your fine-tuned control system works flawlessly. It's how we make the heat transition fun – and why the climate says thank you.

en:hybrid is the perfect solution for these building types:

- Schools and universities
- Office and administration buildings
- Industrial and logistics halls
- Hospitals
- Hotels
- District heating plants

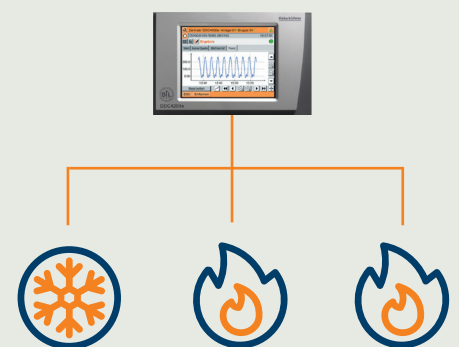
Conventionally controlled



Isolated solutions with no inter-linked or holistic view of the system



Intelligent control



Each generator optimally integrates its own performance features through the higher-level control system en:hybrid.

EN:HYBRID HELPS YOU MAKE THE HEAT TRANSITION EASY

The benefits en:hybrid gives you



Climate protection: Even today, en:hybrid is meeting the high future requirements of building automation level B in central heating or cooling plants. Through the flexible integration of renewable energies, it lets you take a crucial step in the heat transition journey.



Selecting the energy source: The operator has the opportunity to define the test criteria for selecting the most efficient generator based on its energy purchase cost or the specific CO₂ emissions.



An even energy balance: With freely definable individual operating points for your generators, en:hybrid provides exactly as much energy as your building requires.



Producer-neutral orchestration: en:hybrid unites all your heat and cold generators in one fine-tuned overall system.



Easy to integrate: en:hybrid can be integrated into existing heating control systems.



Reliable service: Ongoing support for plants through remote access, remote maintenance and operational management by experienced Kieback&Peter technicians.

Kieback&Peter

Kieback&Peter has been practicing sustainability since 1927. This family-owned German company is paving the way for a sustainable and sound future by combining smart building technology, data-based services, sustainable excellence and a multitude of synergy effects into evolutionary solutions. This

capacity for solutions is based on experience, knowledge and excellence. That makes Kieback&Peter a Smart Building Solutioneer: It lets us secure and add to the value of buildings and business models, while also achieving a **whole range of gains** in climate protection, quality of life and social engagement.

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