Network Engineering
Industrial Automation

Endress+Hauser
People for Process Automation

Energy Management

Applications

- Measuring operating equipment and energy source: Heating and Cooling
- Monitoring energy consumption and the efficiency of cooling and heating systems

Benefits

- Uncover unexploited potential energy savings
- Automatic tracking of specific energy figures
- Creates energy forecasts

Features

- Solutions for every budget, from local energy consumption monitoring through to global solutions
- World-wide online access to data
- User-friendly software with easy to-use interface

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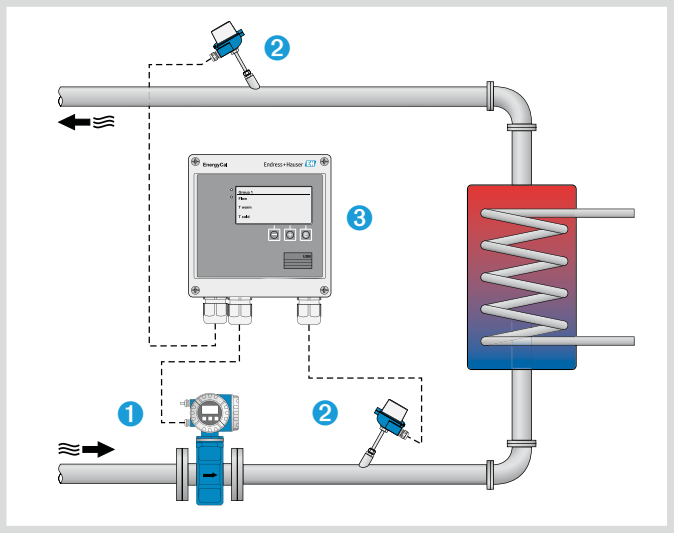
Our measurement technology For Heating and Cooling

❶ Flow measurement

Promag 53P (Magmeter):

- Standard meter for volume measurement of electrically conductive liquids, also available in a "high-temperature" version
- With optional electrode cleaning function (ECC) to prevent electrically conductive deposits in the measuring tube, e.g. for fluids that forms a coating



❷ Temperature measurement

Omnigrad TR10
Standard sensor for accurate fluid temperature measurement in the inlet/outlet. Paired PT100 sensors (Class A) should ideally be used; these are available as standard.

Energy management software

- Monitor specific energy consumption
- Allocate costs across multiple cost centers
- Set and monitor target values based on historic data
- Uncover leaks
- Calculate profits due to energy saving measures

❸ Data analysis Data preparation

EngyCal RH33 (Heat computer):

- For calculating the mass or heat energy of any liquid, gas and steam
- RMC621 flow computer for multiple applications and with intrinsically safe inputs (optional)

Memograph M (Data manager):

- For registering and visualizing process data, and for calculating key characteristic values, e.g. total energy consumption
- With optional functions for calculating heat differences in glycols and water (up to 8 measuring points)

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