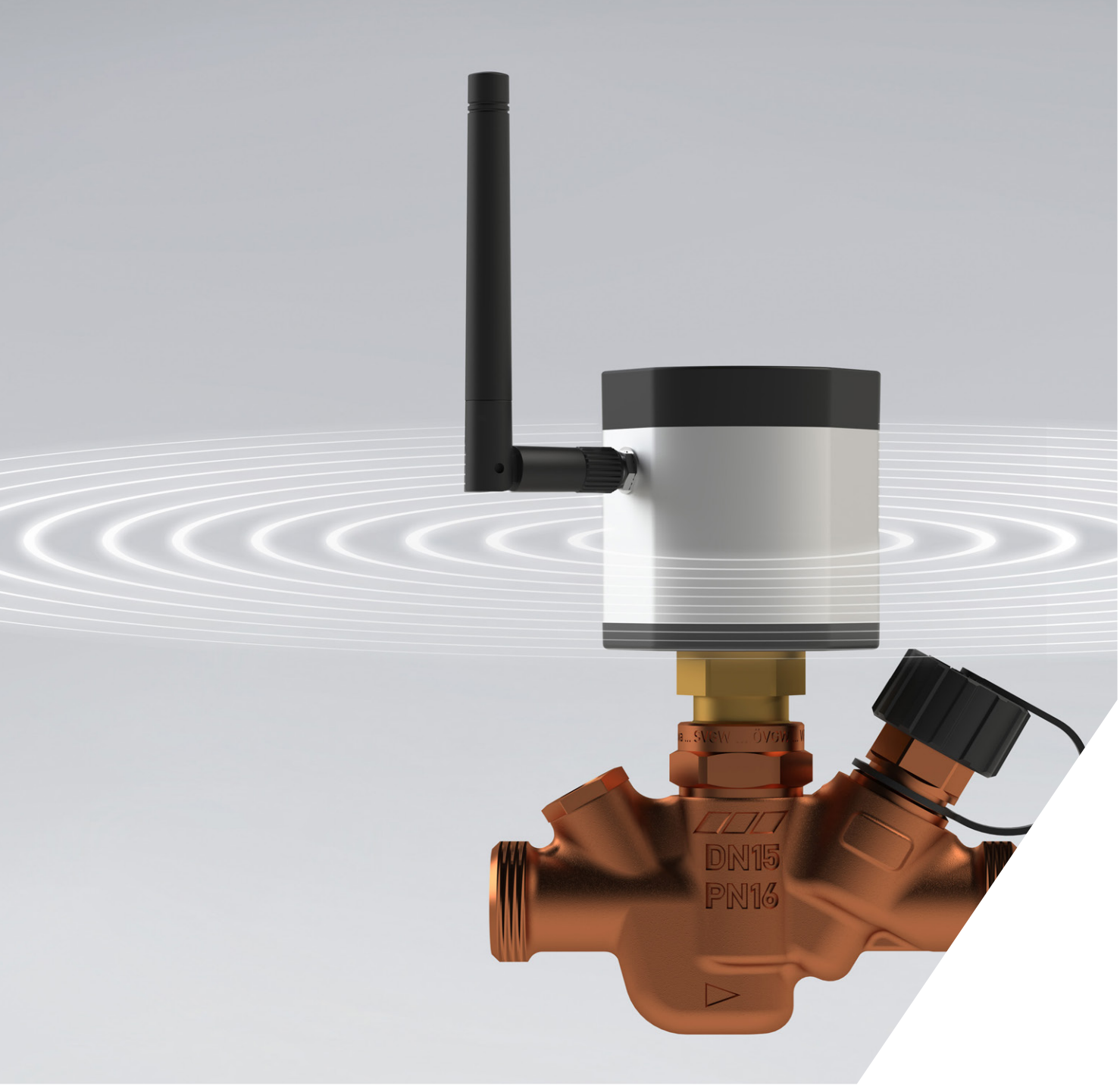


MULTI-THERM PRO

The solution for hydraulic balancing in
domestic hot water circulation systems – wireless and digital

KEMPER

DRIVING PROGRESS

Simply smart.
And with more expertise.

The demands on your drinking water installation? High. Strict standards for drinking water hygiene must be met at all times. Reliable, resource-efficient, and effective – without compromise. Wouldn't it be great if there was a solution that made all this effortless? That's why we're making our expertise easily accessible with our innovative spirit, smart ideas, and digital technology. We call it PRO.

How PRO works:
Our connected products continuously collect all relevant operating data from your drinking water installation. We analyse and interpret this data, then turn it into actionable insights through our digital services. The result? Issues are resolved faster, and your installation becomes safer, more sustainable, and cost-effective.

Intelligent solutions that create real value.

Enhanced operational reliability
Prevent malfunctions before they arise: the recording, visualisation and analysis of operating data allows a rapid reaction to irregularities

Improved control
Constant overview of the drinking water installation with the capability to react to automatic discrepancy notifications – at any time and from anywhere

Increased productivity
Relief of the operating staff and more efficiency in business operations due to simple implementability of recommendations for action and optimisation

Direct support
KEMPER becomes an active partner and problem solver with specific recommendations for action in the event of a malfunction – or even a full-service provider

Lower operating costs
Energy savings from adaptation to analysed and evaluated actual requirements

More sustainable drinking water installations
New potential for saving energy, water and CO_2 emissions make it easier to meet sustainability goals that have been set and to comply with drinking water hygiene

MULTI-THERM PRO digitalises hot water circulation.

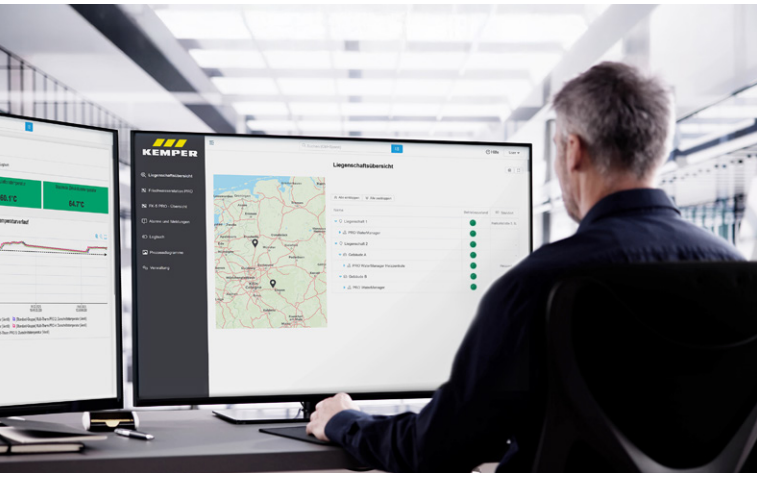
MULTI-THERM is a real success story: The most reliable circulation balancing valve on the market has been setting the standard for the hydraulic balancing of hot water circulation systems since 1997. Thanks to advanced engineering with a thermostatic element, MULTI-THERM ensures reliability, safety, and great customer satisfaction in countless installations.

With the MULTI-THERM PRO digitised circulation balancing valve we are continuing this success story into the future by enabling the digitalisation of hot water circulation systems in a revolutionary simple way.

In the past, controlling temperatures in a hot water circulation system caused a great deal of work: either a lot of cabling for digital monitoring or high levels of personnel deployment if monitored by hand. If temperature control is done manually and possibly only irregular, critical temperature fluctuations in the pipework are often not detected on time and a dangerous concentration of legionella bacteria may result.

With MULTI-THERM PRO, you can monitor the temperatures in the system at any time thanks to the integrated sensors and wireless technology – completely automated and, thanks to a self-sufficient energy supply from energy harvesting, without any complex wiring. You therefore save personnel and investment costs. The clear visualisation and logging of the operating status enables the operator to fulfil his proof obligations in no time.

Connected components that make your installation better.

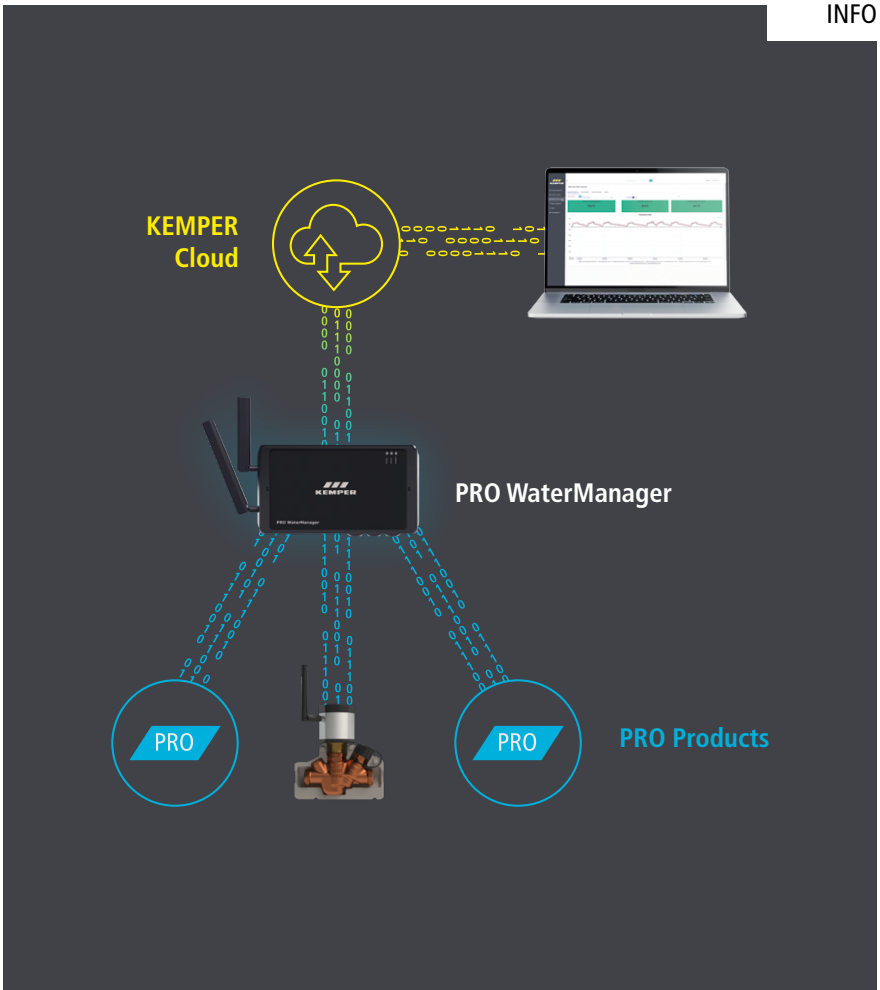


With PRO, you can make the most of your installation's potential: MULTI-THERM PRO detects relevant operating data and transmits it to the KEMPER Cloud via PRO WaterManager. Here, we use our expertise to evaluate, interpret and clearly visualise the data for you. As a result, you are in a position to operate your installation efficiently, safely, and sustainably.

Our digital service models can be matched individually to your requirements. By connecting to other PRO products, you can fully utilise all of the potential of your installation.

MULTI-THERM PRO: Digital product features

// Live viewing of operating states (e.g. water temperature and battery charge status) via digital product twin
// Monitoring and setting the target temperatures from any place
// Optimisation of the operating points in the hot water circulation thanks to more efficient control of the target flow rates
// Autonomous function control with error pattern analysis
// Analysis of the system parameters for early prediction of the necessary maintenance measures (Predictive Maintenance)
// Automatic documentation of the temperatures in the entire hot water circulation system
// Standard BMS compatibility in conjunction with PRO WaterManager



INFO

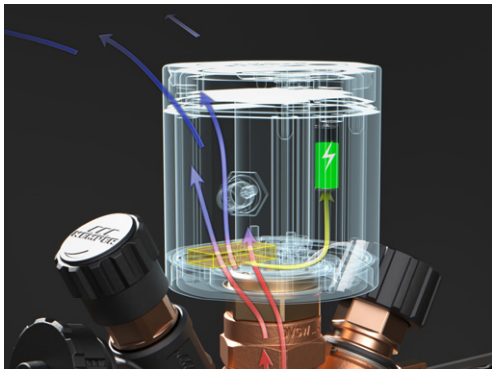
The operating data of all MULTI-THERM PROs are initially transmitted to the PRO WaterManager via LPWAN. This then makes the data available to the KEMPER Cloud – classically using a LAN network or via the factory-fitted integrated LTE module using the IoT mobile network. Good to know: Your data is securely stored in Germany. The use of the PRO WaterManager is required for the full functionality of MULTI-THERM PRO circulation balancing valves.

Find out more about PRO products and digital services

This is how digitalisation with MULTI-THERM PRO works.

The new wireless control module PRO expands the proven MULTI-THERM balancing valve with a digital balancing bonnet to connect and balance hot water circulation via a central command level. The MULTI-THERM PRO communicates by radio via a "Low Power Wide Area Network", LPWAN for short. Thanks to longer radio waves, this technology also penetrates walls and ceilings, thus ensuring a stable, secure connection in the whole building – from the roof right down to the lowest level.

The wireless control module PRO generates its supply energy autonomously by using the difference between the ambient and water temperature (energy harvesting) – and thus manages without any batteries or connection to the power supply.



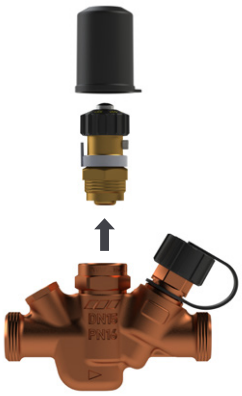
INFO

LPWAN + Energy Harvesting make installing MULTI-THERM PRO completely wireless. That saves on working hours and material costs.

More in the video:

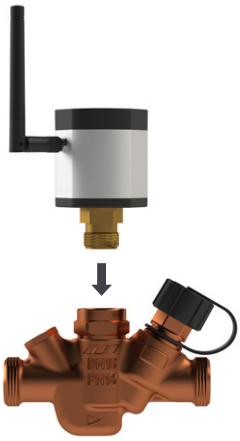
That’s how easy it is to turn MULTI-THERM into MULTI-THERM PRO.

The digital upgrade of existing MULTI-THERM circulation balancing valves with the wireless control module PRO is sustainable, fast, cost-efficient, and possible with very little technical effort: Simply replace the existing thermostatic balancing bonnet with the wireless control module PRO and connect it to the PRO WaterManager. Done.



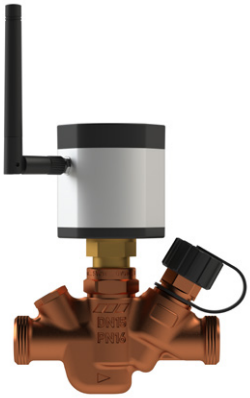
1.

Unscrew the thermostatic balancing bonnet of the MULTI-THERM



2.

Screw the wireless control module PRO onto the valve



3.

Activate MULTI-THERM PRO with a single press of the button

No cables thanks to wireless technology and energy harvesting

Fast and sustainable digitalisation of your existing installation with simple exchange

Design reliability when upgrading: prior calculation is often not needed

Only one-off activation of the preset settings

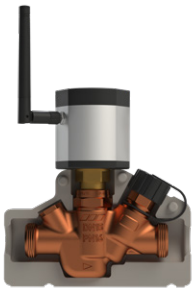
Retrofitting possible without interrupting operation

Upgrade possible in less than 60 seconds

The components for your upgrade, both in existing systems and in new buildings.

Wireless control Module PRO

Figure number	144 01 000



MULTI-THERM PRO

Figure number (with MPT)	144 0G
Figure number (with FPT)	144 00

Wireless control bonnet PRO

Figure number	144 02 001

PRO WaterManager

Figure number	111 01 001

Operating conditions in existing installations are not always known in advance – consequently, the function of MULTI-THERM circulation balancing valves already in service may, for example, be impaired by scaling or encrustation. To reliably ensure the full functional scope of MULTI-THERM PRO, KEMPER therefore recommends upgrading using the complete assembly, Figures 144 0G/144 00.

Find a contact partner on our website:

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