

## Radio heat cost allocator

Reading values at any time, with full flexibility, ensuring exact due date measurement.

**Welcome to the future: an electronic twin-sensor device offering state of the art usage measurement, which automatically reports the data per radio frequency network. For mid-month, end of month or any chosen due date values. Benefit from precise measurement data without the usual hassle. Forget about scheduling appointments or the need for the resident to be present, no one has to enter the apartment any more!**

### In a nutshell

- The only heat cost allocator that can also save up to 10% energy, using adaptterm
- The billing values are displayed on the device using radiator specific programming, making usage transparent for the resident
- Software supported manipulation and demounting detection
- Read usage data without entering the apartment
- OMS (Open Metering System) ready, for flexible reading and freedom
- OMS certified telegram configurable
- Secure data transmission through SSL data encryption and CRC-methodology



### Maximum measuring comfort

Techem's newest generation of heat cost allocators are equipped with two temperature sensors that continuously check the radiator and room temperature to calculate the heat consumption. On the due date chosen by you, the device saves the usage value, transmits it via radio and resets the current display value to zero.

### Intelligent and independent

The Techem heat cost allocators are completely independent of the electric grid. They are battery driven and self-checking. The devices recognise heat accumulation or manipulation and immediately use different room temperature evaluations. Incorrect reading values in the summer are neutralised via software based recognition of the heating system's status.

### Future-proof built-in

The radio 4 heat cost allocator has radio transmission activated from the word go, including for Techem Smart System. Seamless integration into the world of Techem's online services opens the opportunity to access extensive additional tools and information. The future built-in as a standard.

## Technical data

Power supply	3 volt lithium battery
Working life	10 years plus a reserve
Working temperature	0 °C ... 80 °C
Display	5-digit LC display & symbols
Mean designated heating medium temperature $t_{m,A}$	35 °C – 90 °C for compact versions 35 °C – 130 °C for remote sensor versions
Registration size	0 to 99,999 with 4 digits after the decimal point (internally)
Registration start	Above 22.5 °C heating surface temperature and difference between heating temperature/ room temperature > 4K
Functional check	Constant self-control using microcontrollers as well as electronic manipulation and dismounting recognition
Interface	Optical for Techem service devices
Radiator performance	100 W to 15,999 W
Scaling	Product scale
Radio mode	Unidirectional; Standard: Mode C1 according to OMS V4
Radio data transmission	Standard: - Annual due date value (as OMS data point) - Consumption data of 12 mid-month and month-end values
Operating frequency	868.95 MHz
Transmitting power	0,003 ... 0,015 W
Transmission period	0,008 ... 0,014 sec
Protective category	IP 31 (mounted)
CE conformity	According to guideline 2014/53/EU (RED)
Certification	According to HKVO A1.01.2015
Dimensions (mm)	Compact: W: 39.2; H: 118; D: 32 (mounted) Remote sensor: W: 75; H: 140; D: 43 (mounted)

## LC displays



Current consumption



Reference date consumption



Serial number of the heat cost allocator