

Heat cost allocator

# Electronic heat cost allocator (Radio/radio ready)

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!**

## Cutting to the chase

- The only heat cost allocator that can also save up to 10% energy, using adapterm
- OMS (Open Metering System) ready, for flexible reading and freedom
- The billing values are displayed on the device using radiator specific programming, making usage transparent for the resident
- Software supported manipulation and demounting detection
- Techem Online Services ready

**radio 4:** Read usage data without entering the apartment

**radio 4:** Radio transfer of reading values, no on site intermediate readings necessary

**radio 4:** Secure data transmission via SSL data encryption and CRC-methodology

**vario 4:** Future-proof as it is radio prepared and upgradeable at anytime



## 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.

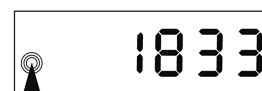
## Future-proof built-in

The radio 4 version of the heat cost allocator has radio transmission activated from the word go, including for Techem Smart System. The vario 4 is radio ready and can be radio activated whenever the customer requests it. 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.

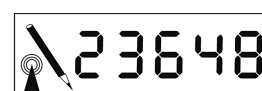
## Technical data

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
Basic functions:	FHKV radio 4: data encoding and radio transfer EHKV vario 4: prepared for radio use
Interface:	Optical for the Techem service device
Radiator performance:	100 W to 15,999 W
Scale:	Product scale
Radio mode:	Proprietary or Mode C1 according to OMS V4
Radio data transmission:	Due date value and status information Proprietary: mid-month and month end consumption data from the previous 12 months OMS: Month end consumption data from the previous 15 months
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)

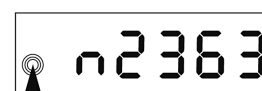
## LC displays



Current consumption



Reference date consumption



Serial number of the heat cost allocator