

# Minometer® M8 radio

## Electronic radio heat cost allocator

The Minometer® M8 electronic heat cost allocator with integrated radio interface serves to record the share of heat produced by radiators. It is integrated into the modern IoT solution® Connect.

The unit operates in a particularly wide temperature application range of 35 °C to 130 °C (average design temperature of the heating medium) and is therefore suitable for single-pipe heating systems, two-pipe systems and especially low-temperature systems. The Minometer® M8 radio is factory-equipped with a unit scale. Optionally available with product scale.

## Heat cost allocator with two-sensor measuring principle

Minometer® M8 radio works according with the two-sensor measuring principle. High-precision sensors continuously detect the smallest changes in radiator and room temperature. By checking the measured room air and radiator temperatures, the device reliably distinguishes between heating operation and external heating. Unwanted detection of external heat is therefore ruled out. Internal self-checks also reliably register attempts at manipulation.

## Everything at a glance:

### With Brunata's remote reading system

Brunata networks smart measuring devices such as water and heat meters, heat cost allocators and smoke alarms. They communicate via IoT gateway directly into an available wireless network. The basis is the modern transmission standard LoRaWAN®. The system is open. It allows the integration of further sensors and intelligent applications that transform properties into a smart home.



## Performance characteristics

- Reading consumption data by radio
- Reliable external heat detection through internal testing
- Easy-to-read 5-digit multifunction display
- High level of protection against thermal, electrical and magnetic failures
- Data security through encryption of the radio protocols

## Minometer® M8 radio

Heat cost allocator Minometer® M8 radio	
Measurement method	Two-sensor or single-sensor measuring method, default setting Two-sensor measuring method
Temperature range	35°C to 130°C
Display	5-digit LCD display
Display function	Display of current meter value, key date and key date value as well as historical monthly values
Energy supply	3 volt lithium long-life battery
Battery lifetime	10 years plus reserve
Versions	In compact version two-sensor standard, single-sensor versions optional; in split version (cable length remote sensor 2.7m) two-sensor standard, single-sensor versions optional
Scale factor	Unit scale, optional product scale
Consumption value storage	Key date value (free selectable) with date Previous year value with date 18 month middle values with date 18 monthly values with date
Start date	Uniform start date programmable
Test symbol / Certification	Heat cost allocator approved according to HKVO, approval no. A1.01.2017
Dimensions [L x W x H]	116.2 mm x 35.8 mm x 30 mm
Data transmission procedure	LPWAN
Frequency	868 MHz
Transmission power	max. +14 dBm
Telegram content	Transfer of daily and key date values
Encryption of the radio data	AES128
Error detection CRC checksums	Yes
Tampering detection	Storage type und date
Additional functions	Optional Summer switch-off Patented process for external heat detection Transmission of status information (battery warning, error states)
Approval according to DIN	DIN EN 834
CE conformity	Yes

# Minometer® M8 radio

## Minometer® variants



### **Minometer® M8 radio split**

The radio heat cost allocator for radiators that are difficult to access or installed



### **Minometer® M7\***

The heat cost allocator for conventional meter reading on site in the apartment



### **Minometer® M7 radio split**

For radiators that are difficult to access or are installed

\*Technical details of the Minometer® M7 and Minometer® M7 split can be found on a separate data sheet.

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