

## Radio temperature sensor radio 4

Measure and display temperature values regularly and transmit via radio.

**RF sensors measure the temperatures in the residences or on pipes, display them and make the measured values available for evaluation. Documentation of the provision of heat or temperature monitoring of the district heating recovery can be ensured for your residences or properties, costs and complaints can be avoided.**

### In a nutshell

- Accurate temperature measurement (tolerance typically  $\pm 0.2$  K) several times per minute
- Calculation and storage of hourly temperature averages
- Display of the current temperature
- Radio transmission of the current temperature value
- Radio transmission of the last 24 hourly temperature averages
- Compact device: measurement of room temperatures
- Remote sensor device: recording of temperatures on pipes
- Software-supported manipulation and dismantling recognition
- OMS (Open Metering System) Standard radio telegrams
- Secure data transfer by encryption and CRC method



### Intelligent and independent

The Techem temperature sensor works independently of the power grid. The devices detect thermal influencing, e.g. by heat accumulation or manipulation, and transmit them by radio.

### Transparent and analytical

The temperature values regularly transmitted to Techem's computer centre provide clear information on the respective temperature level in a cost-effective manner. If desired, this can be used to provide real-time alarms according to customer criteria.

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Technical data

Power supply	3V lithium battery
Lifetime	10 years + reserve
Ambient temperature	0 °C ... 80 °C
LC display	3-digit + symbols
Functional check	continuous self-monitoring through electronic manipulation and dismantling recognition
Service interface	optical for Techem servicing devices
Operating frequency	868.95 MHz
Transmitting power	0.003 ... 0.015 W
Transmission period	0.008 ... 0.014 sec.
Protection class	IP31 (mounted)
CE conformity	according to Directive 2014/53/EU (RED)

LCD display



Compact design for room temperatures



Remote sensor version for pipe temperatures