

E-ITN 30.xx EX

Description

The heat cost allocator E-ITN 30.xx EX with external sensor of radiator temperature is a modern electronic device designed for ratio based allocation of costs for heating in houses with central heating.

E-ITN 30 EX with external sensor uses the 2 sensor principle - it measures the temperature on the radiator and the temperature in the room - this leads to precise measurement of the consumption value.

Allocator is standardly equipped with radio module (marked as E-ITN 30 EX) or, on request, without the radio module (marked as E-ITN 30.xx EXNR).

Data reading

Thanks to integrated radio transmitter, the data reading can be done from outside the house with mobile reading device, or using the central reading system installed in the house.

When compatible water meters are used (E-RM 30), the data from the heat cost allocators and water meters can be read at the same time.

User control

Each user can check the consumption value for the current and previous billing periods on the LC display. This is for better accessibility placed on the top side of the allocator.

Technical data

Measuring principle - two-sensor principle	
Conditions for measuring	sensor temperature of the radiator $\geq 23\text{ }^{\circ}\text{C}$ temperature difference between the mean heating medium temperature and the reference air temperature $\leq 5\text{ K}$ (according to standard EN 834:2013), different conditions for registration in the summer period
Scale	unified scale, $K = 1$
Calendar functions	- consumption value for current and previous billing period - minimum, maximum and average temperatures on the radiator sensor for current and previous billing period - the number of heating days in current and previous billing periods <i>Note.: please find more detailed information about the calendar functions in the Operation manual for E-ITN 30.xx EX with external sensor</i>
Display	5-character LC display + 2 special signs
Protection against cheating	- when thermal influence is detected, the allocator switches to one sensor mode - mechanical seal (optionally with laser-printed initials of the billing company) - electronic seal of the allocator- records manipulation and its date when the allocator when the allocator is dismantled - electronic seal of the external sensor- records manipulation and its date when the allocator when the sensor is dismantled from radiator
Data backup	daily backup of the consumption values including the reading time
Dimensions	allocator 40 x 37 x 100 mm, sensor 21 x 37 x 45 mm
Length of the external sensor cable	1,5 m; 2 m; 2,5 m (standard); 2,72 m
Power supply	lithium battery 3,0 V
Battery life	10 + 1 year



Material	ABS + PC / AI - F22
IP code	IP 42
Conformity	ČSN EN 834
Operating frequency	E-ITN 30.2, 30.4 EX - 868 Mhz E-ITN 30.6 EX - 868,95 Mhz
Transmission length	< 5 mW
Transmission range	Up to 250 m (from outside of the building, with external) <i>Note:: please note that all metal construction parts lifts, switch rooms, armouring etc.) affect negatively the range of radio signal</i>
Data Cyphering	yes

Intended use

E-ITN 30 with external sensor is intended to be installed in one-tube horizontal / vertical heating systems and two-tube heating systems with the lowest mean temperature of the heating higher of equal to 35 °C and highest mean temperature lower or equal 105 °C.

Contact

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Your distributor

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