vesta

heat cost allocator

innovative . programmable . reliable . elegant

Vesta. Roman goddess of the sacred fire and family hearth. Saying "warmth of home" evokes a pleasant feeling of security and safety even today. That is why our **vesta** is here. So you can enjoy life with your family and pay only for the heat that you have really consumed.

description

vesta is two-sensor electronic heat cost allocator for determination of the consumption of room heating radiators. Simply stated – consumption value is calculated based on temperature of the radiator and room temperature. It allows to determine radiator contribution to the heat consumed in your building and to calculate payment for the heating in accordance with local legislation.

communication

Required data including various statistical items (history) can be obtained in any moment thanks to two-way radio communication. If necessary, you can also remotely change the settings (e.g. the beginning and the length of the measuring period or rating factors) without annoying entering the apartment and reprogramming with special device. All communication is of course coded in accordance with modern trends in the field of radio communications. So your data are safe with us.

displayed data

Each user can check measured data for the current and previous measuring period on the allocator display. But as we know that the demands of various householders may vary, we enable our partners to define the items displayed on the LCD according to their needs.

benefits

. easy installation, regardless on distance between welded studs on panel radiators
. possible personalization thanks to easy programming
. remote reading of any historical values makes resolving of potential disputes easier
. readings and configuration with the radio reading unit **hermes** without entering the apartment

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technical parameters

using	in heating systems where $t_{min} \geq 35$ °C and $t_{max} \leq 105$ °C
measuring principle	two-sensor
accounting period	adjustable – 1, 2, 3, 4, 6 or 12 months
scale	standard unified user scale when rating factors are set
rating factors	adjustable 5 rating factors
displaying	LCD – 5 digits + 5 additional symbols
calendar functions	4 last accounting periods 14 last months 7 last days
technology	32-bit energy-saving microprocessor
data backup	daily backup to memory
protection against manipulation	single-sensor measuring when thermal impact is detected mechanical and electronic seal (incl. recording of breach date)
communication protocol	two-way wireless M-BUS according to ČSN EN 13757-4:2013 compatible with standard OMS
operating frequency	868 MHz
transmitting power	< 20 mW
data coding	AES 128
class of duty cycle	1 (percentage of duty cycle < 0,1 %)
transmitted data	t1 reading: . serial number . error states + date of most important error . consumption value in current accounting period . consumption value in previous accounting period t2 reading: . optional according to the user needs
dimensions (h x w x d)	94 x 40 x 30 mm
power supply	lithium battery 3,0 V calculated lifetime 10+1 years
material	ABS + PMMA + Al 6060
storage temperature	+10 °C to +30 °C shortly for the transport -10 °C to +50 °C
conformity	ČSN EN 834:2013 ČSN EN 13757-4:2013

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