

VIPA EC Infra

The multi-sensor electronic indicator serves for heat cost billing in buildings with a central heating system. The heat cost allocator allows each resident to share the heating cost of the whole complex of flats with the amount that matches the resident own heat usage.

The heat cost allocator VIPA EC Infra integrates backwater temperature of a radiator as a main index of installed heating power utilization.

Technology at your side

A modern, microprocessor controlled device with a memory which contains the information about reading on the date of billing period. The device is equipped with highly sensitive temperature sensors and it fulfils all requirements for getting a perfect reading for the correct heat cost calculation. The indicator is also equipped with the electronic-mechanical seal which blocks the device reading at dismounting.

The infrared port reading remarkably increases speed and accuracy of scanning and processing the results.

The quality and accuracy of cost allocation

The heat allocators VIPA use a unique approach to the proportional heat consumption and the subsequent heat bill calculation. Calculated average temperature of the measured room is the decisive billing factor, not a heat delivered by a radiator.

Complex solution

The heat allocator is only one of the factors of quality and rightful heat bill calculation. We also offer the long-time complex rightful heat calculation with our own software VIPACALC which is optimized for quick and trouble-free heat calculation being implemented in tens of thousands flats.

Thanks to this fact you can completely give all worries about heat bill calculation up on us. You obtain easily verifiable, physically and technically evincible heat bill calculation for providing heating service.



Benefits

- The possibility of the safe reading report
- The elimination of the manual processing mistakes
- The acceleration of the measured values process
- The full controlled reading without possibility of meter - reader intervention



Infrared reading



Readable display



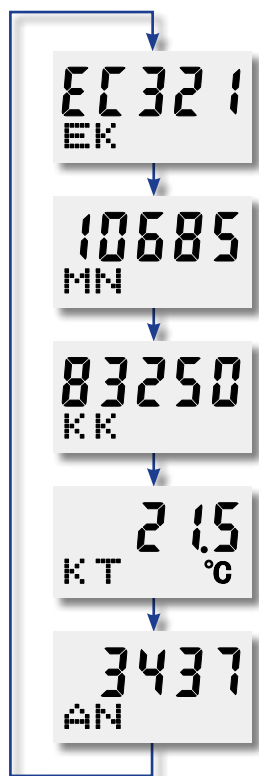
Coded reading



Made in Czech rep.

Owners of VIPA CZ s.r.o. are Czech citizens. We have longtime experience in research and development of our original heat expense allocators and with heat cost billing. In case of your interest in detail information do not hesitate and contact us any time.

Displayed data



Evidence code

Five character data field (two letters, three numbers), the serial number of the allocator

The previous reading

The indicator reading for the previous billing period. During the first period after installation value „0“ is displayed

Control code

It is intended for the control of the reading and allows the controllable reading by a flat user

Control temperature *

The average room temperature for the previous billing period. During the first period after installation value „0“ is displayed

Actual reading

The reading from starting point of the present period

Optional displayed data:

- KZ - The reference backwater temperature
- PZ - Average room temperature
- TZ - The instant backwater temperature
- PZ - The average backwater temperature
- ZD - The end of billing period
- AD - The current date

Technical data

Operation life	10 years + reserve
Power supply	3volt lithium battery
Display	LC display 5 numeric letters + 2 alphanumeric letters + symbols increased thermal resistance
Scale	Uniform
Protection	mechanic seal, el.-mech. seal with operation detection
Dimensions (mm)	71 x 44 x 48
Interface	Optical
Allocator memory	reading to the date of the billing period
Calendar function	variable heating period start and end variable date of an billing period
Summer reading	$\Delta t > 4 \text{ K}$ (back flow pipe temperature – room's temperature)
Winter reading	back flow pipe temperature $> 10 \text{ }^\circ\text{C}$ (or variable)
Operating temperature	$0 \text{ }^\circ\text{C} - 80 \text{ }^\circ\text{C}$
Operating	push button
Design	2 sensors, 3 sensors for short distance of lifting pipe
Protective category	IP 31 (mounted)

Change of technical parameters of the product is reserved.

Range of application

The indicator is designed for buildings with two-pipe heating system. We recommend a professional entry consultation in case of one-pipe vertical or horizontal system. It is determined for most radiators and convectors. It is impossible to use it for heating radiators with additional source of energy or for variable heat output, e.g. bathroom ladders with heating cartridge or convectors with a fan.

Design

The device is generally delivered with 2 sensors. The first sensor measures back water temperature, integrates its average temperature during the rating period and counts a numeric value a ration for the calefactory share calculation in the whole house rating budget. The second sensor determines the average temperature of the room during the heating period and it is the starting sensor for heating during the summer period.

The electronic device with three sensors is used in a case when the indicator is mounted very close to the vertical outlet pipe. The third sensor eliminates wrong elevation in the consequence with outlet pipe backwards soaking in the case of the heating body total closure.

