

ELECTRONIC HEAT COST ALLOCATOR E-ITN 40

Description and usage

E-ITN 40 is modern electronic device intended for ratio-based allocation of heat cost in buildings with central heating system. The heat cost allocator E-ITN 40 uses the two-sensor measuring principle. One sensor measures the temperature of the radiator and the second sensor measures the temperature of the room. Using this principle, allocator ensures exact measurement of consumption value only when the radiator really emits heat.

Heat cost allocator E-ITN 40 is equipped with electronic seal. This seal is able to recognize unauthorized manipulation and record its exact date. Data about unauthorized manipulation is transmitted in radio signal.

When thermally influenced, allocator is switched to singlesensor mode. Allocator is switched back to standard twosensor mode when thermal influence is finished.

Usage

E-ITN 40 is intended to be installed in one-tube horizontal/vertical and two-tube heating systems with the lowest mean design heating medium temperature ≥35 °C and highest mean design heating medium temperature ≤105 °C.

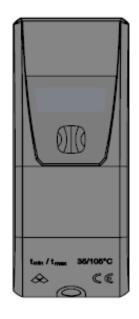
E-ITN 40 is not intended for heat cost allocation for floor heating systems, ceiling radiant heating, flap-controlled radiators, radiators with fan, systems with steam heating medium, air heaters and single tube radiators if exceeds the scope of one user. It must not be also used for heating elements that shape and design does not allow reliable transfer of het to heat cost allocator.

Each radiator in billing (account) unit with common invoicing heat meter must be equipped with a heat cost allocator of the same type. Technical conditions of heating system must be fulfilled when using heat cost allocators E-ITN 40.

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Application	t _{min} ≥ 35°C t _{max} ≤ 105°C		
Measuring principle	Two-sensor meas. principle		
Billing period	Yearly or monthly (defined by the customer		
Dimensions	100x41x31 mm		
Operating frequency	868 MHz		
Transmitting power	< 15 mW		
Conditions of registration	Sensor temperature on the radiator ≥ 23 °C Temperature difference between the mean heating medium temperature and the reference air temperature ≤5K (according to standard EN 834:2013), different conditions for registration in summer period		
Material	ABS + PC /AI - F22		
IP rating	IP 42		
Conformity	ČSN EN 834		

Prewiev of E-ITN 40





Installation of E-ITN 40

- Install base plate to the radiator according to the instructions in Installation and service manual
- Place allocator at the upper end of the aluminium back plate, push it down so that the locks in the housing fit the aluminium back plate and push the bottom part of allocator towards back plate.
 Allocator must be fixed with the latch on both sides of back plate.

Do not install allocator if notice <u>Error</u> or <u>Open</u> is displayed on

Activation of E-ITN 40

If the sign uPr is displayed on LCD, the allocator must be activated:

- 1. When LCD is on and notice <u>uPr</u> is displayed, hold the button till notice <u>--A--</u> appears that indicates submenu activation.
- 2. Switch to item <u>Act</u> with short button presses if necessary
- 3. When notice <u>Act</u> appears, press and hold the button till notice <u>--A--</u> is displayed. When you release the button, <u>Start</u> item is displayed, press button again to show the first menu items.

You can also activate allocator using a phone with Radio Admin app using NFC or RFU 40.

Short manual/user guide



2025/02a

Reading of measured data

Basic allocator status and measured values can be displayed on LCD. LCD can display five alphanumeric characters. These values are highlighted by underline and overline, e.g. oPEn. Meaning of some values may be different if the additional symbol "SM" at the right bottom corner is displayed. These values are mentioned with "SM" symbol in text, e.g. 385 SM.

To save the battery, after longer period of inactivity (approx. 1 min), energy-saving mode is activated and display is switched off. Display can be activated by pushing the button.

When pushing the button briefly, — notice on the display will appear. If the button is not pushed in 1 minute, the display will switch off.

Displayed data	
Serial number (scrolled)	<u>0101-0</u>
Billing period	<u>u01.01</u>
Current yearly billing period consumption	<u>0</u>
Previous yearly billing period consumption	<u>0 SM</u>
Current monthly billing period consumption	<u>0.</u>
Past monthly billing period consumption	<u>0. SM</u>

Other items can be displayed based on settings.

Transport and storage

Transport:

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- Devices ca be transported by all usual covered means of transport
- Devices must be in original package
- Originally packed devices must be stored and secured to avoid mechanical damages during transportation
- Devices can not be transported together with aggressive substances
- Temperature during transportation from -10 °C to +55 °C
- Relative humidity from 45 % to 75 %

Storage:

- Devices must be originally packed by manufactured and individually stored in antistatic bags
- Storage temperature from +10 °C to +30 °C
- Relative humidity from 45 % to 75 %
- Devices must be stored in clean covered areas without aggressive substances and stored properly to avoid mechanical damage

Disposal



This device is subject to a waste management in accordance with local legislation.

Possible minor faults and their elimination

Any E-ITN 40 defects should be repaired by manufacturer only.

Warranty terms and conditions

If device is installed and handled according to manufacturer instructions mentioned in Installation and service manual, manufacturer provides warranty under the valid legislation unless agreed differently.

The warranty is void if device was used contrary to Installation and service manual or damaged:

- During transport or storage by customer or reseller
- When mounted or dismantled to the customer device
- Because of improper handling or installation into other device than agreed in manual
- If the product was exposed to different environment than agreed in manual
- Of mechanically or in other way damaged by user

Declaration of conformity, declaration of directive RoHS

You can find declaration of conformity and declaration of directive RoHS on producer's web page: www.metra-su.cz

Warranty and post warranty repairs

Warranty and post warranty repairs have to be done by manufacturer. Pack the defective product and send back to the address:

APATOR METRA s.r.o.

Havlíčkova 919/24 787 01 Šumperk

Tel.: 583 718 263

E-mail: prodej@metra-su.cz
www.metra-su.cz