

**ELECTRONIC HEAT COST ALLOCATOR E-ITN 30.xx EX WITH A REMOTE SENSOR**

**Description and usage**

E-ITN 30.xx EX is a modern electronic device intended for ratio based allocation of heat cost in buildings with central heating system. Heat cost allocator E-ITN 30.xx uses the two-sensor measuring principle – integrates temperature difference between the sensor of the radiator surface temperature and the sensor of the surrounding temperature. Using this principle the allocator ensures measurement of consumption value only when the radiator really emits heat (i.e. it does not measure in the summer).

The allocator with the remote sensor is equipped with a mechanic and an electronic seal and is delivered in sealed state with the electronic seal activated. In case of unauthorized removal of the base plate the allocator saves the date of breach of the electronic seal to its memory and stops to show measured data on the display. Only the notice **Open** is displayed and indicates the breach of the electronic seal but allocator continues measuring and transmitting the measured data. Information about the breach of the electronic seal is available in the data transmitted by the radio module and via IR interface.

**Application**

In one-tube horizontal/vertical and two-tube heating systems with the lowest mean design heating medium temperature  $\geq 35$  °C and highest mean design heating medium temperature  $\leq 105$  °C.

E-ITN 30.xx EX 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 heat to heat cost allocators.

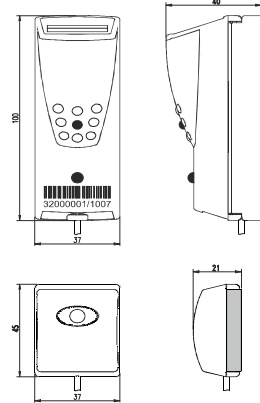
Each radiator in billing (account) unit with common invoicing heat meter must be equipped with a heat cost allocator of the same type. Technical conditions of heating system must be fulfilled when using heat cost allocators E-ITN 30.xx EX.

**Technical specification**

|                              |   |
|------------------------------|---|
| Application (heating medium) | $t_{min} \geq 35$ °C<br>$t_{max} \leq 105$ °C   |
| Measuring principle          | two-sensor meas. principle  |
| Billing period               | <b>year</b> (E-ITN 30.2 EX, E-ITN 30.6 EX)<br><b>month</b> (E-ITN 30.4 EX, E-ITN 30.6 EX)   |
| Dimensions                   | allocator 100 x 37 x 33 mm  |
| Operating frequency          | 868 MHz (E-ITN 30.2 EX, E-ITN 30.4 EX)<br>868,95 Mhz (E-ITN 30.6 EX)  |
| Transmitting power           | < 5 mW or < 1 mW  |
| Conditions of registration   | - temperature of the sensor of the radiator temp. $\geq 23$ °C<br>- difference of mean temp. of heating medium and surroundings temp. $\geq 4$ °C |

|            |   |
|------------|---|
| Material   | ABS + PC / AI – F22 (E-ITN 30.2 EX, E-ITN 30.4 EX)<br>ABS + PC / AI – F (E-ITN 30.6 EX) |
| IP code    | IP 42   |
| Conformity | EN 834  |

**Dimensional drawings**



**Installation of E-ITN 30**

1. Install the base plate to the radiator according to the instructions in Installation and service manual.
2. Slide the locks in the upper part of the sensor housing on the base plate and push the bottom part of the housing to the base plate. The allocator must be fixed with the latch on both sides of back plate.
3. The base of the allocator is placed on the wall.

Do not install the allocator if the notice **Error** or **Open** is displayed on LCD.

**Activation of E-ITN 30**

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

1. When LCD is on and notice **UP** is displayed, hold the button till notice **--A--** appears that indicates sub-menu activation.
2. Switch to item **Act** with short button presses if necessary.
3. When notice **Act** appears, press and hold the button till notice **--A--** is displayed. When you release the button, first menu item is displayed.

**Reading of measured data**

Basic allocator status and measured values can be displayed on LCD. The 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**.

The last value shows the termination of the battery lifetime.



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**

**E-ITN 30.2 EX, E-ITN 30.4 EX**

|   |                   |
|---|-------------------|
| Value for current billing period          | <b>245</b>        |
| Value for last billing period             | <b>458 SM</b>     |
| Alphanumeric code for last billing period | <b>A.O.i.h.t.</b> |
| Serial number – first part                | <b>-3400</b>      |
| Serial number – second part               | <b>0060-</b>      |

**E-ITN 30.6 EX Wireless M-Bus**

|   |                 |
|---|-----------------|
| Consumption for the current billing year  | <b>245</b>      |
| Consumption for the past billing year     | <b>458 SM</b>   |
| Consumption for the current billing month | <b>2.4.5</b>    |
| Consumption for the past billing month    | <b>4.5.8.SM</b> |
| Serial number – first part                | <b>-3400</b>    |
| Serial number – second part               | <b>0060-</b>    |

**E-ITN 30.5, E-ITN 30.51 Wireless M-Bus**

|  |                      |
|--|----------------------|
| LCD test   | <b>88888 BATT SM</b> |
| Current date   | <b>10.12.</b>        |
| Start of the billing period                              | <b>u.1.2.</b>        |
| Value for last billing period                            | <b>458 SM</b>        |
| Average surroundings temperature for last billing period | <b>23.7°C SM</b>     |
| Value for current billing period                         | <b>245</b>           |

**E-ITN 30.6 Wireless M-Bus**

|  |                 |
|--|-----------------|
| Value for current year billing period  | <b>245</b>      |
| Value for last year billing period     | <b>458 SM</b>   |
| Value for current month billing period | <b>2.4.5</b>    |
| Value for last month billing period    | <b>4.5.8.SM</b> |
| Serial number – first part             | <b>-3600</b>    |
| Serial number – second part            | <b>0060-</b>    |

\* also other items can be displayed based on setting

**Transport and storage**

**Transport**

- devices can 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 +50 °C
- relative humidity from 45 % to 75 %

**Storage**

- devices must be originally packed by manufacturer 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 30.xx EX defect 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 provide warranty under the valid legislation unless agreed differently.

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

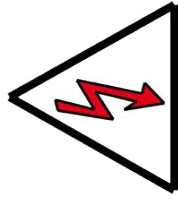
- during transport or storage by customer or reseller
- when mounted or dismantled to the customer device
- because of improper handling or installation into other device than agreed in manual
- if the product was exposed to different environment than agreed in manual
- if mechanically or in other way 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](http://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 manufacturer's address.



## BEZPEČNOSTNÍ UPOZORNĚNÍ A POKYNY PRO INSTALACI SAFETY WARNINGS AND INSTRUCTIONS FOR INSTALLATION ПРЕДУПРЕЖДЕНИЕ О БЕЗОПАСНОСТИ И ИНСТРУКЦИЯ ДЛЯ УСТАНОВКИ OSTRZEŻENIA I INSTRUKCJA INSTALACJI

**CZ**

Statická elektřina, která je pro člověka neškodná, může vážně poškodit elektronická zařízení. Při manipulaci a montáži s výrobkem proto dodržujte následující pravidla:

- před montáží vybijte svůj nahromaděný statický náboj dotykem ruky s kovovým uzemněným předmětem (např. radiátorem),
- výrobek ponechejte v antistatickém obalu až do chvíle montáže,
- při manipulaci s výrobkem se nedotýkejte kovových
- částí (např. tělesa senzoru teploty).

**GB**

Static electricity, that is harmless to a man, can seriously damage electronic devices. Follow undermentioned rules when handling and installing the product:

- discharge accumulated static electricity by touching the hand with a grounded metal object (e.g. radiator) before installation,
- keep the product in an antistatic bag until installation,
- do not touch the metal parts when handle the product (e.g. temperature sensor).

**RUS**

Статическое электричество, которое безопасно для человека, может серьезно повредить электронные приборы. Поэтому при манипуляции и сборке изделия соблюдайте следующие правила:

- перед сборкой разрядите свой накопленный заряд, коснитесь рукой металлического заземленного предмета (напр. радиатора)
- изделие оставьте в антистатической упаковке до момента сборки
- при хватке изделия не прикасайтесь к металлическим частям (напр. корпуса сенсора температуры)

**PL**

Ładunki elektrostatyczne, które dla człowieka są nieszkodliwe, mogą poważnie uszkodzić urządzenia elektroniczne. Podczas obsługi i instalacji produktu, należy przestrzegać następujących zasad:

- przed montażem proszę wybić swój nagromadzony ładunek elektrostatyczny poprzez dotknięcie ręki do metalowego obiektu uziemionego (np. kaloryferu),
- należy produkt przechowywać w opakowaniu antystatycznym do momentu instalacji,
- podczas uchwycenia produktu, nie należy dotykać części metalowych (np. korpusu czujnika temperatury).