



Czech Metrology Institute

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Notified Body Id. No.:1383



TESTCOM – Certifying Body for Certification of Products No. 3136,
accredited by CAI according to ČSN EN ISO/IEC 17065:2013
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EU-type examination **C E R T I F I C A T E**

(Radio Equipment Directive 2014/53/EU, Annex III)

No. 0120-CC-V0007-20

Product:	Electronic heat costs indicator with integrated radio transmitter
Trade name / brand name	Electronic heat costs indicator
Model / Type:	E-ITN 40
Manufacturer	APATOR Metra s.r.o.
Manufacturer address:	Havlíčková Str. 919/24, 787 01 Šumperk Czech Republic
Software version:	version 1
Hardware version:	---
Frequency bands of operation:	868 MHz

The Notified Body No.:1383 - Czech Metrology Institute,
after the examination of the technical documentation as drawn by the manufacturer,
announces

that the essential requirements of Article 3.1a, 3.1b and Article 3.2
of Radio Equipment Directive 2014/53/EU (Government Decree No.: 426/2016 Coll.).
have been met.

The conformity assessment on the radio equipment listed above and as described in Annex 1 to this EU-type examination certificate has been carried out in accordance with Annex III (module B) of RADIO Equipment Directive 2014/53/EU (Government Decree No.: 426/2016 Coll., Annex 3).

A list of documentation forming the basis for the EU-type examination is provided in Annex 2 to this EU-type examination certificate.

This EU-type Examination certificate relates only to the documents as provided to CMI.

Brno, June 10, 2020



Dr. Pavel Klenovský

Head of Notified Body and
Director General

Annex 1 to EU-type examination certificate for RED 2014/53/EU

No.: 0120-CC-V0007-20

Model: E-ITN 40

Date of issue: June 10, 2020

The heating cost indicator E-ITN 40 is an electronic device designed for the estimated distribution of heat costs in houses with central heating. The E-ITN 40 heating cost indicator is fully two-sensor - measuring the temperature of the radiator and the temperature in the room with measuring the consumption value of the radiator. In contrast to the single-sensor indicator, the risk of so-called summer surveys can be minimized. Recommended installation area - on single-pipe horizontal or vertical heating systems and two-pipe heating systems using a medium designed heat transfer medium client $\geq 35^\circ\text{C}$ and a maximum mean designed heat transfer medium value $\leq 105^\circ\text{C}$.

Details of operation:

Operating frequency band	868,7 MHz – 869,2 MHz
Operation frequency	$F_1 = 868,7925\text{ MHz}$ $F_2 = 868,9500\text{ MHz}$
Bandwidth	180 kHz to F_1 250 kHz to F_2
Max. ERP	< 15 mW
Modulation	GFSK
Duty cycle	< 0,1%
Doba vysílání	5 -12 ms
Power Supply	lithiová baterie 3,0 VDC
Operation temperature.....	$0^\circ\text{C} - 65^\circ\text{C}$
Dimensions	100 x 41x 31 mm

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Annex 2 to EU-type examination certificate for RED 2014/53/EU

No.: 0120-CC-V0007-20

Model: E-ITN 40

Date of issue: June 10, 2020

1. Test report:

RA

EMC

Product Safety

RF safety

Report number:

8551-PT-R0028-20

8551-PT-E0184-19

8551-PT-B0028-20

Manufacturer declaration

Dated:

May 28, 2020

January 7, 2020

July 4, 2019

2. Certificate: ---

3. Technical Documentation provided:

Internal layout photos

Instructions for installation, service and use manual

Technical Specifications

SW MASTER v.35

SW SLAVEONE v.35

Device Schemes

PCB mounting

List of used components

Datasheet Li-ion Battery Panasonic BR-1_2

Declaration of conformity

Risk analysis

4. Standards used to demonstrate conformity with the essential requirements of Radio Equipment Directive 2014/53/EU:

Radio Spectrum (Article 3.2):

ETSI EN 300 220-1 V3.1.1

ETSI EN 300 220-2 V3.2.1

EMC (Article 3.1.b):

ETSI EN 301 489-1 V2.2.3

ETSI EN 301 489-3 V2.1.1

EN 834:2014, odst. 6.13

Product Safety (Article 3.1a)

ČSN EN 62 368-1:2014 +Opr.1:2016, +A11:2017

RF Safety (Article 3.1a)

EN 62311: 2008

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Annex 2 to EU-type examination certificate for RED 2014/53/EU

No.: 0120-CC-V0007-20

Model: E-ITN 40

Date of issue: June 10, 2020

Additional information:

This is Class 1 device.

Radio Equipment Directive 2014/53/EU, Article 10.4: Manufacturers shall keep the technical documentation and the EU declaration of conformity for 10 years after the radio equipment has been placed on the market.

Radio Equipment Directive 2014/53/EU, Article 10.6: Manufacturers shall ensure that radio equipment which they have placed on the market bears a type, batch or serial number or other element allowing its identification, or, where the size or nature of the radio equipment does not allow it, that the required information is provided on the packaging, or in a document accompanying the radio equipment.

Radio Equipment Directive 2014/53/EU, Article 10.7: Manufacturers shall indicate on the radio equipment their name, registered trade name or registered trade mark and the postal address at which they can be contacted or, where the size or nature of radio equipment does not allow it, on its packaging, or in a document accompanying the radio equipment. The address shall indicate a single point at which the manufacturer can be contacted. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

Radio Equipment Directive 2014/53/EU, Article 10.8: Manufacturers shall ensure that the radio equipment is accompanied by instructions and safety information in a language which can be easily understood by consumers and other end-users, as determined by the Member State concerned. Instructions shall include the information required to use radio equipment in accordance with its intended use. Such information shall include, where applicable, a description of accessories and components, including software, which allow the radio equipment to operate as intended. Such instructions and safety information, as well as any labelling, shall be clear, understandable and intelligible.

The following information shall also be included in the case of radio equipment intentionally emitting radio waves:

- (a) frequency band(s) in which the radio equipment operates;
- (b) maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates.

Radio Equipment Directive 2014/53/EU, Article 10.9: Manufacturers shall ensure that each item of radio equipment is accompanied by a copy of the EU declaration of conformity or by a simplified EU declaration of conformity. Where a simplified EU declaration of conformity is provided, it shall contain the exact internet address where the full text of the EU declaration of conformity can be obtained.

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Radio Equipment Directive 2014/53/EU, Article 10.10: In cases of restrictions on putting into service or of requirements for authorization of use, information available on the packaging shall allow the identification of the Member States or the geographical area within a Member State where restrictions on putting into service or requirements for authorization of use exist. Such information shall be completed in the instructions accompanying the radio equipment.

Radio Equipment Directive 2014/53/EU, Article 19.2: On account of the nature of radio equipment, the height of the CE marking affixed to radio equipment may be lower than 5 mm, provided that it remains visible and legible.

Radio Equipment Directive 2014/53/EU, Article 20.1: The CE marking shall be affixed visibly, legibly and indelibly to the radio equipment or to its data plate, unless that is not possible or not warranted on account of the nature of radio equipment. The CE marking shall also be affixed visibly and legibly to the packaging.

Radio Equipment Directive 2014/53/EU, Annex III, Module B7: The manufacturer shall inform the notified body that holds the technical documentation relating to the EU-type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of this Directive or the conditions for validity of that certificate. Such modifications shall require additional approval in the form of an addition to the original EU-type examination certificate.

In accordance with Notified Body guidance; if there are no changes, a Notified Body EU-type examination certificate has a validity of 10 years from the date of issue.

The Declaration of Conformity under Directive 2014/53/EU or a copy thereof must be supplied with each device.

Device designation:



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