



**COMMISSION REGULATION (EC) No 642/2009****of 22 July 2009****implementing Directive 2005/32/EC of the European Parliament  
and of the Council with regard to ecodesign requirements for  
televisions****(Text with EEA relevance)***Article 1***Subject matter and scope**

This Regulation establishes ecodesign requirements for the placing on the market of televisions.

*Article 2***Definitions**

In addition to the definitions set out in Directive 2005/32/EC, the following definitions shall apply:

1. 'television' means a television set or a television monitor;
2. 'television set' means a product designed primarily for the display and reception of audiovisual signals which is placed on the market under one model or system designation, and which consists of:
  - (a) a display;
  - (b) one or more tuner(s)/receiver(s) and optional additional functions for data storage and/or display such as digital versatile disc (DVD), hard disk drive (HDD) or videocassette recorder (VCR), either in a single unit combined with the display, or in one or more separate units;
3. 'television monitor' means a product designed to display on an integrated screen a video signal from a variety of sources, including television broadcast signals, which optionally controls and reproduces audio signals from an external source device, which is linked through standardised video signal paths including cinch (component, composite), SCART, HDMI, and future wireless standards (but excluding non-standardised video signal paths like DVI and SDI), but cannot receive and process broadcast signals;
4. 'on-mode' means the condition where the television is connected to the mains power source and produces sound and picture;
5. 'home-mode' means the television setting which is recommended by the manufacturer for normal home use;

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6. ‘standby-mode(s)’ means a condition where the equipment is connected to the mains power source, depends on energy input from the mains power source to function properly and offers the following functions only, which may persist for an indefinite time:
- reactivation function, or reactivation function and only an indication of enabled reactivation function, and/or,
  - information or status display;
7. ‘off-mode’ means a condition in which the equipment is connected to the mains power source and is not providing any function; it also includes:
- (a) conditions providing only an indication of off-mode condition;
  - (b) conditions providing only functionalities intended to ensure electromagnetic compatibility pursuant to Directive 2004/108/EC of the European Parliament and of the Council <sup>(1)</sup>;
8. ‘reactivation function’ means a function facilitating the activation of other modes, including on-mode, by remote switch including remote control, internal sensor, timer to a condition providing additional functions, including on-mode;
9. ‘information or status display’ means a continuous function providing information or indicating the status of the equipment on a display, including clocks;
10. ‘forced menu’ means a set of television settings pre-defined by the manufacturer, of which the user of the television must select a particular setting upon initial start-up of the television;
11. ‘full HD resolution’ means a screen resolution with physical pixel count of at least 1 920 × 1 080 pixels;

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12. ‘network’ means a communication infrastructure with a topology of links, an architecture including the physical components, organisational principles, communication procedures and formats (protocols);
13. ‘network port’ means a wired or wireless physical interface of the network connection located at the television through which the television can be remotely activated;
14. ‘networked television’ means a television that can connect to a network and has one or more network ports;
15. ‘network availability’ means the capability of the television to resume functions after a remotely initiated trigger has been detected by a network port;
16. ‘remotely initiated trigger’ means a signal that comes from outside the television via a network;

<sup>(1)</sup> OJ L 390, 31.12.2004, p. 24.

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17. ‘networked standby’ means a condition in which the television is able to resume a function through a remotely initiated trigger via a network connection;
18. ‘networked television with high network availability functionality’ (a television with HiNA functionality) means a television with the functionality of a router, network switch, wireless network access point (not being a terminal) or combination thereof included;
19. ‘router’ means a network device that, as its primary function, determines the optimal path along which network traffic should be forwarded. Routers forward packets from one network to another, based on network layer information (L3);
20. ‘network switch’ means a network device that, as its primary function, filters, forwards, and distributes frames based on the destination address of each frame. All switches operate at least at the data link layer (L2);
21. ‘wireless network access point’ means a device that, as its primary function, provides IEEE 802.11 (Wi-Fi) connectivity to multiple clients.

**▼ B***Article 3***Ecodesign requirements**

The ecodesign requirements for televisions are set out in Annex I.

Compliance with the ecodesign requirements shall be measured in accordance with the methods set out in Annex II.

*Article 4***Conformity assessment**

The conformity assessment procedure referred to in Article 8 of Directive 2005/32/EC shall be the internal design control system set out in Annex IV to that Directive or the management system for assessing conformity set out in Annex V to that Directive.

The technical documentation to be provided for the conformity assessment is set out in point 1 of Part 5 of Annex I to this Regulation.

*Article 5***Verification procedure for market surveillance purposes**

Surveillance checks shall be carried out in accordance with the verification procedure set out in Annex III.

**▼B***Article 6***Revision**

The Commission shall review this Regulation no later than 3 years after its entry into force in the light of technological progress and present the result of this review to the Ecodesign Consultation Forum.

*Article 7***Amendment to Regulation (EC) No 1275/2008**

Annex I, point 3 to Regulation (EC) No 1275/2008 is replaced by the text set out in Annex IV to this Regulation.

*Article 8***Entry into force**

1. This Regulation shall enter into force on the 20th day following its publication in the *Official Journal of the European Union*.

2. The ecodesign requirements set out in point 1 of Part 1, Part 3, Part 4, and point 2 of Part 5 of Annex I shall apply from 20 August 2010.

The ecodesign requirements set out in point 2, Part 1 of Annex I shall apply from 1 April 2012.

The ecodesign requirements set out in points 1(a) to 1(d) of Part 2 of Annex I shall apply from 7 January 2010.

The ecodesign requirements set out in points 2(a) to 2(e) of Part 2 of Annex I shall apply from 20 August 2011.

This Regulation shall be binding in its entirety and directly applicable in all Member States.



## ANNEX I

## ECODESIGN REQUIREMENTS

## 1. ON-MODE POWER CONSUMPTION

## 1. From 20 August 2010:

The on-mode power consumption of a television with visible screen area  $A$  expressed in  $\text{dm}^2$  shall not exceed the following limits:

	Full HD resolution	All other resolutions
Television sets	$20 \text{ Watts} + A \cdot 1,12 \cdot 4,3224 \text{ Watts/dm}^2$	$20 \text{ Watts} + A \cdot 4,3224 \text{ Watts/dm}^2$
Television monitors	$15 \text{ Watts} + A \cdot 1,12 \cdot 4,3224 \text{ Watts/dm}^2$	$15 \text{ Watts} + A \cdot 4,3224 \text{ Watts/dm}^2$

## 2. From 1 April 2012:

The on-mode power consumption of a television with visible screen area  $A$  expressed in  $\text{dm}^2$  shall not exceed the following limits:

	All resolutions
Television sets	$16 \text{ Watts} + A \cdot 3,4579 \text{ Watts/dm}^2$
Television monitors	$12 \text{ Watts} + A \cdot 3,4579 \text{ Watts/dm}^2$

## 2. STANDBY/OFF MODE POWER CONSUMPTION

## 1. From 7 January 2010:

## (a) Power consumption in 'off-mode':

Power consumption of televisions in any off-mode condition shall not exceed 1,00 Watt.

## (b) Power consumption in 'standby-mode(s)':

The power consumption of televisions in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 1,00 Watt.

The power consumption of televisions in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 2,00 Watts.

## (c) Availability of off-mode and/or standby-mode:

Televisions shall have an off-mode and/or standby-mode, and/or another condition which does not exceed the applicable power consumption requirements for off-mode and/or standby-mode when the television is connected to the mains power source.

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- (d) For television sets which consist of a display, and one or more tuner(s)/receiver(s) and optional additional functions for data storage and/or display such as digital versatile disc (DVD), hard disk drive (HDD) or videocassette recorder (VCR) in one or more separate units, points (a) to (c) apply for the display and the separate unit(s) individually.

2. From 20 August 2011:

- (a) Power consumption in ‘off-mode’:

Power consumption of televisions in any off-mode condition shall not exceed 0,30 Watts, unless the condition in the next paragraph is fulfilled.

For televisions with an easily visible switch, which puts the television in a condition with power consumption not exceeding 0,01 Watts when operated to the off position, the power consumption of any other off-mode condition of the television shall not exceed 0,50 Watts.

- (b) Power consumption in ‘standby-mode(s)’:

The power consumption of televisions in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 0,50 Watts.

The power consumption of televisions in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 1,00 Watt.

- (c) Availability of off-mode and/or standby-mode:

Televisions shall have an off-mode and/or standby-mode, and/or another condition which does not exceed the applicable power consumption requirements for off-mode and/or standby-mode when the television is connected to the mains power source.

- (d) Automatic power-down:

Televisions shall provide a function with the following characteristics:

- (i) after no more than 4 hours in on mode following the last user interaction and/or a channel change, the television shall be automatically switched from on mode to:

- standby-mode, or,
- off-mode, or,
- another condition which does not exceed the applicable power consumption requirements for off-mode and/or standby-mode;

- (ii) televisions shall display an alert message before the automatic switch from on mode to the applicable condition/modes.

This function shall be set as default.

- (e) For television sets which consist of a display, and one or more tuner(s)/receiver(s) and optional additional functions for data storage and/or display such as digital versatile disc (DVD), hard disk drive (HDD) or videocassette recorder (VCR) in a separate unit, points (a) to (d) apply for the display and the separate unit individually.

**▼ M1****3. NETWORKED STANDBY POWER CONSUMPTION**

For networked televisions, the following requirements shall apply:

**1. As of 1 January 2015:****(a) Possibility to deactivate wireless network connection(s)**

If a networked television has the ability to connect to a wireless network, it shall be possible for the user to deactivate the wireless network connection(s). This requirement does not apply to products which rely on a single wireless network connection for intended use and have no wired network connection.

**(b) Power management for networked televisions**

Networked televisions shall provide a function with the following characteristics:

After no more than 4 hours in on mode following the last user interaction and/or a channel change, the television shall be automatically switched from on mode to a condition of networked standby or any other condition which does not exceed the applicable power consumption requirements for conditions providing networked standby.

Televisions shall display an alert message before the automatic switch from on mode to the applicable condition/modes. This function shall be set as default.

In a condition providing networked standby, the power management function may switch the television automatically into standby mode, or off mode or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode.

The power management function, or a similar function, shall be available for all network ports of the networked television.

The power management function, or a similar function, shall be activated, unless all wireless network ports are deactivated. In that case the power management function, or a similar function, shall be activated if any one of the network ports is activated.

**(c) A networked television that has one or more standby modes shall comply with the requirements for these standby mode(s) when all wireless network ports are deactivated.****(d) Power consumption in a condition providing networked standby:**

The power consumption of television with HiNA functionality, in a condition providing networked standby into which the television is switched by the power management function, or a similar function, shall not exceed 12,00 W.

The power consumption of televisions without HiNA functionality in a condition providing networked standby into which the television is switched by the power management function, or a similar function, shall not exceed 6,00 W.

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## 2. As of 1 January 2017:

In addition to the requirements set out in point 1(a) and (b), the following provisions shall apply:

- (a) A networked television that has one or more standby modes shall comply with the requirements for these standby mode(s) when all wired network ports are disconnected and when all wireless network ports are deactivated.
- (b) A networked television shall comply with the provisions under 2.2(d) when all wired network ports are disconnected and when all network ports are deactivated.
- (c) Power consumption in a condition providing networked standby:

The power consumption of television with HiNA functionality, in a condition providing networked standby into which the television is switched by the power management function, or a similar function, shall not exceed 8,00 W.

The power consumption of televisions without HiNA functionality in a condition of networked standby into which the television is switched by the power management function, or a similar function, shall not exceed 3,00 W.

## 3. As of 1 January 2019:

In addition to the requirements set out in point 1(a) and (b) and point 2(a), (b) and (c) the following provisions shall apply for networked televisions other than HiNA equipment or televisions with HiNA-functionality:

The power consumption of televisions without HiNA functionality in a condition of networked standby into which the television is switched by the power management function, or a similar function, shall not exceed 2,00 W.

**▼ B****► M1 4. ◀ ‘HOME-MODE’ FOR TELEVISIONS WHICH ARE DELIVERED WITH A FORCED MENU**

From 20 August 2010:

Televisions with forced menu on initial activation of the television shall provide a ‘home-mode’ in the forced menu, which shall be the default choice on initial activation of the television. If the user selects a mode other than ‘home-mode’ on initial activation of the television, a second selection process shall be prompted to confirm this choice.

**► M1 5. ◀ PEAK LUMINANCE RATIO**

From 20 August 2010:

— Televisions without forced menu: the peak luminance of the on-mode condition of the television as delivered by the manufacturer shall not be less than 65 % of the peak luminance of the brightest on-mode condition provided by the television.

— Televisions with forced menu: the peak luminance of the home-mode condition shall not be less than 65 % of the peak luminance of the brightest on-mode condition provided by the television.

**▼ B****► M1 6. ◀ INFORMATION TO BE PROVIDED BY MANUFACTURERS**

1. For the purposes of conformity assessment pursuant to Article 5, the technical documentation shall contain the following elements:

- (a) test parameters for measurements:
  - ambient temperature,
  - test voltage in V and frequency in Hz,
  - total harmonic distortion of the electricity supply system,
  - the input terminal for the audio and video test signals,
  - information and documentation on the instrumentation, set-up and circuits used for electrical testing;
- (b) on-mode:
  - the power consumption data in Watts rounded to the first decimal place for power measurements up to 100 Watts, and to the first integer for power measurements above 100 Watts,
  - the characteristics of the dynamic broadcast-content video signal representing typical broadcast TV content,
  - the sequence of steps for achieving a stable condition with respect to power consumption,
  - in addition for televisions with a forced menu, the ratio of the peak luminance of the home-mode and the peak luminance of the brightest on-mode condition provided by the television, expressed in per cent,
  - in addition for television monitors, a description of the relevant characteristics of the tuner used for measurements;
- (c) for each standby and/or off-mode:
  - the power consumption data in Watts rounded to the second decimal place,
  - the measurement method used,
  - description of how the mode was selected or programmed,
  - sequence of events to reach the mode where the television automatically changes modes;
- (d) automatic power down:
 

the duration of the on-mode condition before the television reaches automatically standby, or off-mode, or another condition which does not exceed the applicable power consumption requirements for off-mode and/or standby-mode;

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- (e) for networked standby
  - the number and type of network ports and, except for wireless network ports, where these ports are located on the television; in particular it shall be noted if the same physical network port accommodates two or more types of network ports,

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- whether all network ports are deactivated before delivery,
  - whether the television qualifies as television with HiNA functionality; if no information is provided the television is considered not to be HiNA equipment or a television with HiNA functionality;
- (f) for each type of network port:
- the default time after which the power management function, or a similar function, switches the television into a condition providing networked standby,
  - the trigger that is used to reactivate the equipment,
  - the (maximum) performance specifications,
  - the (maximum) power consumption of the television in a condition providing networked standby into which the power management function, or a similar function, will switch the equipment, if only this port is used for remote activation.
- If no information is provided, the television is considered not to be a networked television;

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- **M1** (g) ◀ hazardous substances:
- if the television contains mercury or lead: the content of mercury as X,X mg, and the presence of lead.

## 2. From 20 August 2010:

The following information shall be made publicly available on free-access websites:

- the on-mode power consumption data in Watts rounded to the first decimal place for power measurements up to 100 Watts, and to the first integer for power measurements above 100 Watts,

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- for each standby and/or off mode and the condition providing networked standby, the power consumption data in Watt rounded to the second decimal place,

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- for televisions without forced menu: the ratio of the peak luminance of the on-mode condition of the television as delivered by the manufacturer and the peak luminance of the brightest on-mode condition provided by the television, expressed in percentage, rounded to the nearest integer,
- for televisions with a forced menu: the ratio of the peak luminance of the home-mode condition and the peak luminance of the brightest on-mode condition provided by the television, expressed in percentage, rounded to the nearest integer,
- if the television contains mercury or lead: the content as X,X mg and the presence of lead.

**▼ B***ANNEX II***MEASUREMENTS****1. Measurements of on-mode power consumption**

Measurements of the power consumption referred to in Annex I, Part 1 shall fulfil all of the following conditions:

- (a) Measurements shall be made using a reliable, accurate and reproducible measurement procedure, which takes into account the generally recognised state of the art measurement methods.
- (b) Conditions of televisions for measuring the on-mode power consumption:
  - Television sets without forced menu: the power consumption referred to in points 1 and 2 shall be measured in the on-mode condition of the television as delivered by the manufacturer, that is, the brightness controls of the television shall be in the position adjusted by the manufacturer for the end user.
  - Television sets with forced menu: the power consumption referred to in points 1 and 2 shall be measured in the 'home-mode' condition.
  - Television monitors without forced menu: the television monitor shall be connected to an appropriate tuner. The power consumption referred to in points 1 and 2 shall be measured in the on-mode condition of the television as delivered by the manufacturer, that is, the brightness controls of the television monitor shall be in the position adjusted by the manufacturer for the end user. The power consumption of the tuner is not relevant for the measurements of on-mode power consumption of the television monitor.
  - Television monitors with forced menu: the television monitor shall be connected to an appropriate tuner. The power consumption referred to in points 1 and 2 shall be established in the 'home mode' condition.
- (c) General conditions:
  - Measurements shall be made at an ambient temperature of 23 °C +/- 5 °C.
  - Measurements shall be made using a dynamic broadcast-content video signal representing typical broadcast TV content. The measurement shall be the average power consumed over 10 consecutive minutes.
  - Measurements shall be made after the television has been in the off-mode for a minimum of 1 hour immediately followed by a minimum of 1 hour in the on-mode and shall be completed before a maximum of 3 hours in on-mode. The relevant video signal shall be displayed during the entire on-mode duration. For televisions that are known to stabilise within 1 hour, these durations may be reduced if the resulting measurement can be shown to be within 2 % of the results that would otherwise be achieved using the durations described here.

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- Measurements shall be made with the Automatic Brightness Control function, if such a function exists, made inactive. If the Automatic Brightness Control function exists and cannot be made inactive, then the measurements shall be performed with the light entering directly into the ambient light sensor at a level of 300 lux, or more.

**▼M1****2. Measurements of standby/off-mode, and networked standby power consumption**

Measurements of the power consumption referred to in Annex I, Parts 2 and 3 shall fulfil all of the following conditions:

The power consumption referred to in point 2.1(a) and (b), point 2.2(a) and (b) and points 3.1(d) and 3.2(c) shall be established by a reliable, accurate and reproducible measurement procedure, which takes into account the generally recognised state of the art.

**▼B****3. Measurements of peak luminance**

Measurements of the peak luminance referred to in Annex I, Part 4 shall fulfil all of the following conditions:

- (a) Measurements shall be made using a reliable, accurate and reproducible measurement procedure, which takes into account the generally recognised state of the art measurement methods.
- (b) Measurements of peak luminance shall be made with a luminance meter, detecting that portion of the screen exhibiting a full (100 %) white image, which is part of a 'full screen test' test pattern that does not exceed the average picture level (APL) point where any power limiting occurs in the display luminance drive system.
- (c) Measurements of luminance ratio shall be made without disturbing the luminance meter's detection point on the display whilst switching between the conditions referred to in Annex I, Part 4.

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## ANNEX III

▼ M2**PRODUCT COMPLIANCE VERIFICATION BY MARKET SURVEILLANCE AUTHORITIES**

A. *The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the manufacturer or importer as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.*

When verifying the compliance of a product model with the requirements laid down in this Regulation pursuant to Article 3(2) of Directive 2009/125/EC, for the requirements referred to in this Annex, the authorities of the Member States shall apply the following procedure. They shall apply the steps set out in points 2(a), 2(b) and 3 below also during the verification procedure set out in part B of this Annex.

- (1) The Member State authorities shall verify one single unit of the model.
- (2) The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to point 2 of Annex IV to Directive 2009/125/EC (declared values), and, where applicable, the values used to calculate these values, are not more favourable for the manufacturer or importer than the results of the corresponding measurements carried out pursuant to paragraph (g) thereof; and
  - (b) the declared values meet any requirements laid down in this Regulation, and any required product information published by the manufacturer or importer does not contain values that are more favourable for the manufacturer or importer than the declared values; and
  - (c) when the Member State authorities test the unit of the model, the determined values (the values of the relevant parameters as measured in testing and the values calculated from these measurements) comply with the respective verification tolerances as given in Table 1.
- (3) If the results referred to in point 2(a) or (b) are not achieved, the model shall be considered not to comply with this Regulation.
- (4) If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing.
- (5) The model shall be considered to comply with the applicable requirements if, for these three units, the arithmetical mean of the determined values complies with the respective verification tolerances given in Table 1.
- (6) If the result referred to in point 5 is not achieved, the model shall be considered not to comply with this Regulation.
- (7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission without delay after a decision being taken on the non-compliance of the model according to points 3 and 6.

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The Member State authorities shall use the calculation methods set out in Annex I and the measurement conditions set out in Annex II.

The Member State authorities shall only apply the verification tolerances that are set out in Table 1 and shall only use the procedure described in points 1 to 7 for the requirements referred to in this Annex. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

*Table 1*  
**Verification tolerances**

Parameters	Verification tolerances
On-mode power consumption given in Annex I, points 1 and 2 of Part 1	The determined value shall not exceed the declared value by more than 7 %.
Off-mode/standby conditions, as applicable, given in Annex I, points 1(a) and (b) and points 2(a) and (b) of Part 2	The determined value shall not exceed the declared value by more than 0,10 W.
Peak luminance ratio given in Annex I, Part 5	The determined value shall not be lower than 60 % of the peak luminance of the brightest on-mode condition provided by the television.

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**B. Verification procedure for requirements established in Part 3 of Annex I**

When performing the market surveillance checks referred to in Article 3(2) of Directive 2009/125/EC, the Member States' authorities shall apply the following verification procedure for the requirements set out in Annex I, points 1(d) and 2(c) of Part 3, as applicable. They shall use the applicable procedure below, after having deactivated and/or disconnected, as applicable, all network ports of the unit.

Member States' authorities shall test one single unit as follows:

If the television has, as indicated in the technical documentation, one type of network port and if two or more ports of that type are available, one of these ports is chosen randomly and that port is connected to the appropriate network complying with the maximum specification of the port. In the event of multiple wireless network ports of the same type, the other wireless ports shall be deactivated if possible. In the event of multiple wired network ports of the same type for verifying requirements set out in Annex I, point 2, the other network ports shall be deactivated if possible. If only one network port is available, that port is connected to the appropriate network complying with the maximum specification of the port.

The unit is put in on mode. Once the unit in on mode is working properly, it is allowed to go into the condition providing networked standby and the power consumption is measured. Then the appropriate trigger is provided to the television through the network port and a check is made whether the television is reactivated.

Where the television has, as indicated in the technical documentation, more than one type of network port, for each type of network port the following procedure is repeated. If two or more network ports of a type are available, one port is chosen randomly for each type of network port and that port is connected to the appropriate network complying with the maximum specification of the port.

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If for a certain type of network port only one port is available, that port is connected to the appropriate network complying with the maximum specification of the port. Wireless ports not used shall be deactivated if possible. In the event of verification of requirements set out in Annex II, point 3, the wired network ports not used shall be deactivated if possible.

The unit is put in on mode. Once the unit in on mode is working properly, it is allowed to go into the condition providing networked standby and the power consumption is measured. Then the appropriate trigger is provided to the television through the network port and a check is made whether the television is reactivated.

If one physical network port is shared by two or more types of (logical) network ports this procedure is repeated for each type of logical network port, with the other logical network ports being logical-disconnected.

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The model shall be considered to comply with this Regulation if the results for each type of network port do not exceed the declared value by more than 7 %.

Otherwise, three more units shall be tested. The model shall be considered to comply with this Regulation if the arithmetical mean of the determined values does not exceed the declared value by more than 7 %.

Otherwise, the model shall be considered not to comply.

The Member State authorities shall provide the test results and other relevant information to the authorities of the other Member States and to the Commission without delay after the decision being taken on the non-compliance of the model.

**▼ M1****C. Conformity check**

For the purpose of checking conformity with the requirements, the authorities of the Member States shall use the procedure set out in Annex II and reliable, accurate and reproducible measurement procedures, which take into account the generally recognised state of the art measurement methods, including methods set in documents the reference numbers of which have been published for that purpose in the *Official Journal of the European Union*.

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*ANNEX IV*

**List of energy-using products covered by Annex I, point 3 to Regulation (EC)  
No 1275/2008**

Radio sets

Videocameras

Video recorders

Hi-fi recorders

Audio amplifiers

Home theatre systems

Musical instruments

And other equipment for the purpose of recording or reproducing sound or images, including signals or other technologies for the distribution of sound and image other than by telecommunications, but excluding televisions as defined in Commission Regulation (EC) No 642/2009.