



Scope

All *EnergySavingDevices* which are especially designed to reduce the energy consumption of the connected machine and provide an essential reduction of the energy consumption.
 Admissible categories: *EnergySavingDevices* for hot beverage machines, copiers, monitors, printers, fax machines, luminaries, TV, VCR, audio equipment.

Criteria

Energy Saving Devices are eligible for the GEEA-Label if the following criteria are met:

| Category | Criteria | Criteria valid till* |
|-----------------------|--|----------------------|
| Energy Saving Devices | The proper power consumption of the <i>Energy Saving Device</i> in any of its operation modes is 1W or less. | 31.12.2003 |
| | The machine connected to the <i>Energy Saving Device</i> is switched off completely after the <i>Energy Saving Device</i> has become active. If the connected machine requires regular connection to the mains in order not to lose memory content the <i>Energy Saving Device</i> may switch the machine on and off for short periods of time. | 31.12.2003 |
| | The <i>Energy Saving Device</i> detects automatically if the connected machine can be switched off. Switching on again may require interaction of the user. | 31.12.2003 |
| | The <i>Energy Saving Device</i> becomes active after a maximum delay time (default) of <ul style="list-style-type: none"> • 45 minutes when used for copiers or hot beverage machines; • 30 minutes when used for monitors; • 15 minutes when used for fax machines, printers, TV, VCR, Audio equipment or luminaries after the connected machine has finished its operation mode or cycle. | 31.12.2003 |
| | If the maximum delay time of the <i>Energy Saving Device</i> can be set by the user the maximum permissible delay time is 60 minutes. If the <i>Energy Saving Device</i> detects the delay time or the <i>on-off</i> cycle from the user pattern and therefore the user cannot define the delay time the restriction of the maximum delay time is not applicable. | 31.12.2003 |

*See Rules of Registration Procedure

Definition

| Term | Definition |
|----------------|--|
| <i>Machine</i> | The device which is connected to the <i>Energy Saving Device</i> in order to be switched off after it has performed its operation cycle. |

Test method

1. Testing requirements

1.1 Testing area

Measurements are to be carried out in a testing area that is free of draughts and has ambient temperature of 22°C ±4°C. All components of the device to be measured must be at room temperature.

1.2 Measuring device

For measuring the effective power consumption, a measuring device must be used that:

Reference:PS01-011000

- a. automatically calculate the average power consumption during a time interval; or
- b. carries out a time measurement parallel to the energy measurement, from which it is possible to numerically calculate the average power consumption.



The maximum permissible relative measurement error for both the power consumption and the energy consumption is 5%.

1.3 Main voltage and frequency

The device to be measured must be operated on a main supply at rated voltage [V_{AC}] and rated frequency [Hz]. The permissible deviation is $\pm 2\%$ for the supply voltage and the mains frequency. The alternating current must be a sinus wave with harmonic distortion not exceeding 5%.

2. Testing procedure power consumption stand by mode and off mode

The *Energy Saving Device* is connected to the machine according to the manufacturer's instructions¹. The machine is switched into operation mode and is then allowed to finish its operation cycle². The time after the end of the operation cycle and the moment when the *Energy Saving Device* is switching the machine off is measured. The power consumption of the *Energy Saving Device* when the connected machine is on **and** when it is switched off should be calculated.

The time until the *Energy Saving Device* is switching the machine off is to be indicated in minutes [min]. The power consumption is to be indicated in watts [W], rounded to the first digit after the decimal point.

¹ Manufacturer's settings

² The operation cycle may be finished in a forced way by the measuring person.