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Product brochure and user manual for Electronic Housekeeper

CONCERTO INITIATIVE Class 1

Cost-effective Low-energy Advanced Sustainable So1utions

Instrument: Integrated Project Thematic Priority: Energy 2005

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Duration: 6 years



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Preface

The class 1 project

The idea of the project CLASS 1 is to use the strengthening of the energy requirements to boost and drive the technological developments and to prove the economic and environmental benefits of ultra-low energy buildings (50% below the new requirements in the Danish building regulations) integrated with biomassand solar heating based renewable energy supply.

In this context the objectives are to:

1. Optimise the integration of low-energy building technologies with supply (renewable and conventional) and distribution (heating and electricity) technologies.

2. Advance selected technologies within the 3 areas: low-energy building, renewable energy supply and distribution

3. Improve the design, checking and verification procedures (this relates directly to the implementation of the building energy performance directive -EPBD).

4. Integrate the European ecolabel in the building projects (houses and components)

5. Demonstrate large scale implementation at close to market technical and economical conditions. The Class 1 project is focused on the optimisation of sustainable energy systems in local communities, through an innovative integration of RE technologies with ultra low-energy buildings.

Deliverables 20

Deliverable 20 is one out of 12 deliverables of work package 3 - Advancement of technologies and solutions - of the Class 1 project. The first 6 of the deliverables of work package 3 present the result of the development work - the advancement of the technologies in question and the 6 latter deliverables present the sales brochures developed by each producer and the guidance notes on how to employ the advanced technologies. Deliverable 20 presents the brochure and user manual developed for the **Electronic Housekeeper** of **EHK Home Automation ApS**.

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1. Brochure for the Electronic Housekeeper

The new brochure for the Electronic Housekeeper follows on the next two pages.

Electronic Housekeeper **Connecting Systems**







Plug in dimmers



Remote controls



Door alarms Wall switches



Build in modules Stick on sensors



Power meters

PIR sensors



Smoke sensors





Z-wave bridges

Thermostates

IP cams

Active speakers



www.electronichousekeeper.com



In cooporation with









1/100



It's smart, it's wireless, and it saves energy

The Electronic Housekeeper is a wireless and efficient environmental console, designed for people looking for simple and inexpensive ways to reduce their energy consumption and making their homes smart.

With just one click on the console you can monitor and control all the appliances in your home. In addition, this discreet console will increase your awareness of how much electricity, water, and heat you use and it will blow the whistle on the big energy wasters in your house. So, as you save lots of money, you also make a contribution towards a greener future for us all.

The Electronic Housekeeper however does a lot more; it comes with a list of features that makes it interesting to use the small environmental console. The features depend on the Housekeeper package and services you chose.

DIY and professional packages available. Bundle deals for free.



Energy
In Control
Guard
IHC

How does the Electronic Housekeeper save energy?

The Electronic Housekeeper helps you save energy in many ways. The more you use it, the more you save.



Knowing : In order to save energy, you need to know your energy consumption. Electronic Housekeeper keeps track of your consumption around the clock.

Comparing : The Electronic Housekeeper compares your consumption with your energy profile and reference group. Key performance factors get you in control of your consumption.

Advising : The Electronic Housekeeper guides you how to how to save more energy, by either changing your energy behavior or your energy appliances.

Alerting : The Electronic Housekeeper alerts you in case your consumption increases more than 15%.

Controlling : The Electronic Housekeeper wirelessly and automatically controls appliances in order to reduce the energy consumption and increase comfort.

The energy saving guidance is made in association with the Cost-effective Low-energy Advanced Sustainable Solutions project from the Commission of the European Community.

Flass

Much more than an environmental console...



You are able to listening to radio, play MP3, get the latest weather forecast, check your e-mails and much more. Your Electronic Housekeeper is automatically updated with new features, and new intelligent products are being added.

The Electronic Housekeeper interacts with others

The Electronic Housekeeper uses the wireless Zwave ® standard and bridges to other standards such as; ZigBee ®, M-Bus, Mod-Bus, RS485, RS232, analogue in / outputs and IR. Hereby, the Electronic Housekeeper is able to communicate with existing heating / cooling systems (like Nilan ®, Honeywell ®, and Danfoss ®), windows systems (like Velux ®), home automation systems (like IHC ® and KNX ®), security systems (like Securitas ®) and entertainment systems (like B&O ®) etc. Your Electronic Housekeeper also interacts with your smart phone (like iPhone ®) and can be accessed via our homepage.



2. User manual for the Electronic Housekeeper

The new user manual for the Electronic Housekeeper follows on the following pages.

Electronic Housekeeper User Manual - In Control

October 2012





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How to get started

In order to get the Housekeeper started we have made quick start guidance for you.

Basic package includes

_	Electronic Housekeeper
	Mounting plate
67-	POE Cabling
Q	Ethernet Cable
	Power Supply
-	Switchkeepers



USB memory stick

Additional - depending on choice of package



Netgear Ethernet Adapter



Smart Read Power Reader



Bridgekeeper



Cabling: Power and Internet



1. Connect the POE units to the Ethernet cable (1 + 2)

Via the POE connectors it is able only to have one cable going to the Electronic Housekeeper, and to store the power supply away from sight of the Electronic Housekeeper.

Note: The maximum distance of the POE cabling is 30 meter. Furthermore, the Ethernet cabling has to be CAT5, meaning all wires in the Ethernet cabling is in use.

2. Connect the POE female connector to the power supply (3)

The POE units have a female and a male connector, the female connector is to be connected to the male connector from the black power supply. Wait to connect power to the power supply until all the cabling is finished.

3. Connect the Ethernet connector of the POE to the Internet (4 + 5)

Depending on your choice of Internet connection (cable, power line or WIFI) the Ethernet connector has to go in to your Internet connection; normally directly into your router.

4. Connect the POE cable to the Electronic Housekeeper (6)

Connect the round power core and the Ethernet jack from the POE cable to the corresponding connectors at the back of the Electronic Housekeeper. Number 1 and 5 in the picture below:

	[]	100	
0	2	3	5
1	2.7 7.3		2

Cabling: Netgear WLAN



The Netgear Universal adapter is connected to the Ethernet jack of the Electronic Housekeeper as described above.

The Power supply to the Netgear adapter is connected to the USB connector on the Electronic Housekeeper.

Alternatively the POE cabling might be combined with the Netgear device using a separate power adapter to the Netgear adapter.

For more information we kindly refer to the Netgear manual. Also you can follow this link on YouTube

http://www.youtube.com/watch?v=Cgg8YgnmG7A&feature=related



Housekeeper: Wall Mounting



1. Fit the mounting plate on the wall (1+2)

The mounting plate is to be fitted at the wall using 3 screws. Normal height from the floor is about 150 cm.

Tip: In order to cover the wires to the Electronic Housekeeper we recommend one of the following locations; 1) kitchen between over and under kitchen cabinets, 2) next to the fridge in the kitchen or 3) next to a cable tube outtake. In all of these 3 cases, you are able to hide the power supply and Internet connection of the Electronic Housekeeper.

2. Connect the POE cable to the Electronic Housekeeper (3)

Connect the round power core and the Ethernet jack from the POE cable to the corresponding connectors at the back of the Housekeeper. Number 1 and 5 in the picture below



The other end of the POE cable is to be connected to the power supply and to Internet connection (look under cabling)

3. Connect the USB MP3 stick to the Electronic Housekeeper (4)

On the USB stick there is some MP3 free trial music. If you would like to add more music, you need to copy this to the USB stick from your PC before setting it into the Electronic Housekeeper.

4. Place the Electronic Housekeeper on the mounting plate (5)

In order to give the best viewing angle, the Electronic Housekeeper can be fitting in a 90 or 45 degree position.

5. Turn on the power to the power supply (6)

Housekeeper: Table Mounting



1. Connect the POE cable to the Electronic Housekeeper (1)

Connect the round power core and the Ethernet jack from the POE cable to the corresponding connectors at the back of the Housekeeper. Number 1 and 5 in the picture below



The other end of the POE cable is to be connected to the power supply and to Internet connection (look under cabling)

2. Connect the USB MP3 stick to the Electronic Housekeeper (2)

On the USB stick there is some MP3 free trial music. If you would like to add more music, you need to copy this to the USB stick from your PC before setting it into the Electronic Housekeeper.

3. Mount the aluminum foot the Electronic Housekeeper (3 + 4)

The foot is connected in two steps and pressed in until you hear a click. **NB**: If you would like to disconnect the foot, you simply place one hand on top of the Electronic Housekeeper and hit the foot downwards towards the connectors with the other hand.

4. Place the Electronic Housekeeper on the table (5)

5. Turn on the power to the power supply (6)



Quick Settings

Your Electronic Housekeeper needs about 1 minute to boot up. Depending on your choice of service package, a list of icons will now appear on the screen:



Overall

The Electronic Housekeeper has a touch screen, which means you simply touch an icon on the screen to access the corresponding function. To return to the initial screen, touch the Electronic Housekeeper logo in the middle top of the screen. If you do not touch the screen stops for 30 seconds, it will be dark to save energy. To activate the screen again in that you just touch it. You are able to get more detailed information in the following chapters.

Check your internet connection

The Electronic Housekeeper will automatically establish an online connection via the cabling you made. You are able to double check the connection by selecting , "Network" and the Electronic Housekeeper tries to connect to www.google.com and the Electronic Housekeeper server. If the connections are OK, the following messages will appear: "Google Ping OK" and "Server Connection OK". If the tests are not OK, please double check the cabling or the router settings of your network, as some are limited to only one device.

Hint: We recommend making a fixed IP address on your router for the Electronic Housekeeper.

Update Your Energy Profile

To assist you in analyzing your energy consumption and save energy, Electronic Housekeeper has a few questions for you. Please select Select Analyzing and answers the questions.

Music

The Electronic Housekeeper is able to play music formats MP3, WMA, MPEG-4 and DivX. He will not play MAC formats. The housekeeper can retrieve music files from the USB stick, external hard drive or from a music server. For more information we kindly refer to the specific chapter.



Switchkeeper



The Switchkeeper is an intelligent power-off switch controlled wirelessly by the Electronic Housekeeper. The Switchkeeper is plugged into an outlet and the plug of an electrical appliance is plugged into the Switchkeeper. Although the Switchkeeper is set to

control the connected devices, you can also do so at any time yourself – either via the touch screen of the Electronic Housekeeper, an IR remote control or a smart phone.

The Switchkeeper controls devices up to 16A. You might also connect several electrical appliances to the Switchkeeper via a power strip or replace the cable to e.g. a lamp with the cable going into the Switchkeeper to make it look nicer.

Once installed, the Switchkeeper needs to be informed about how you would like it to perform - like turning the connected electrical appliances on / off by a schedule. This is done by selecting \bigcirc , selecting the device, and selecting \bigcirc . We kindly refer to the device set-up chapter.

Smart Read



The Smart Read is used to measure the total power consumption of your power meter. You install the meter by following these steps:

- 1. Place the Smart Read next to the meter. Please notice that all metal will block the wireless transmission to the Electronic Housekeeper. Therefore, please place the Smart Read to get the best RF conditions, by using the long cable. Either simply use the double sided tape on the back or 2 screws to fit it on the wall.
- 2. Fit the sensor to the meter, following by using the marks on the sensor to get the best readings. Please remember to remove the protection film at the back of the sensor.
- 3. Calibrate the Smart Read by pressing the button at the bottom 5 times. The calibration process may take several minutes, and during the process the LED light flashes. When calibration is complete, the LED blinks only once each, if the unit registered a pulse from the counter. Note: If the LED light stops flashing or not constantly flickers, the calibration was not successful. Adjust the position of the sensor head and start a new calibration.
- 4. The Smart Read is precoded to measure once every 15 min. However, by pressing the button a reading will be transmitted immediately.



Internet Set-up

The Housekeeper is configured based on the products and services you ordered. The configuration is made via the Internet, and you are always able to change the set-up of your Housekeeper at <u>www.electronichousekeeper.com</u> by selecting "User Login".

	IOP III HOME I PRESS I USER LOGIN
lser Login	
Please login to update your Electronic Housekeeper information's	
and to remote control your Housekeeper.	
For log-in please write your Housekeeper ID and password.	If you do not have a
For log-in please write your Housekeeper ID and password.	If you do not have a Housekeeper ID or a Password please contact us:
For log-in please write your Housekeeper ID and password.	If you do not have a Housekeeper ID or a Password please contact us: EHK Home Automation Aps
For log-in please write your Housekeeper ID and password. User ID: Password:	If you do not have a Housekeeper ID or a Password please contact us: EHK Home Automation Aps Ryvangsalle 62 2900 Hellerup
For log-in please write your Housekeeper ID and password. User ID: Password: Log In	If you do not have a Housekeeper ID or a Password please contact us: EHK Home Automation Aps Ryvangsalle 62 2900 Hellerup Phone: 46 72 72 40 47
For log-in please write your Housekeeper ID and password. User ID: Password: Forgot your password?	If you do not have a Housekeeper ID or a Password please contact us: EHK Home Automation Aps Ryvansalle 62 2900 Hellerup Phone: +45 26 72 40 47 E-mail: infogleactronichousekeeperdk

The UserID default is your e-mail and the password is the 5 digits ID number at the back side of your Housekeeper. In case you need help to find this information, please send an e-mail to <u>info@electronichousekeeper.com</u>.

Once logged on, you are able to select either to change the set-up or to make remote control of your Housekeeper.

housekeeper 🗥	Main Page Logout		
HOUSEKEEPER PRODUCTS EARTHKEEPER WHO WE ARE SUPPORT ONLINE SHOP	HOME I PRESS I USER LOGIN		
Housekeeper setting and remote control ere you are able to change your Housekeeper setting and remote control your Housekeeper	Setting Chose Housekeeper setting for: Frans Mernild		
	Remote control Choose Housekeeper: 00049979		
	00049472 00049cdc 00049b50 00049a16		
	00049907 0004959£ 000495e3 00049976		
	00049a7 00049a77 00049668		
	Billing		

Set-up

The set-up via the Internet is described under the corresponding chapters.



Remote control via the Internet

The remote control allows you remotely to control and to change the set-up of the devices connected to your Housekeeper.

You are able to make remote control either via our Electronic Housekeeper home page or via a Smart Phone app

www.electronichousekeeper.com

The following picture shows the remote control with the Electronic Housekeeper home page. The icons are equal to the one you see at the Housekeeper.



Smart Phone app

You are able to download an app to your smart phone at www.electronichousekeeper.com





In order to get started, you need to key in the following information:

- App product code, send to your by e-mail
- ID number of the Electronic Housekeeper
- User ID and password to login to www.electronichousekeeper.com

Once the product is activated, you do only have to key in the 4 digit code entered at www.electronichousekeeper.com .

You are able to control all devices, groups, music and system state via the app.





The basic main screen has the following design:



The features on the main screen depend on the service package you have selected to your Electronic Housekeeper. You navigate by pressing on the screen.

In the top of the screen you will find the following information:

- Left side: date and time
- Circle between the time and the Electronic Housekeeper logo: Indicates if the Electronic Housekeeper is busy. White: not busy (no messages), green normal (1-5 messages) activity and red indicates the Electronic Housekeeper is very busy (more than 5 messages).
- Middle: Electronic Housekeeper logo. By pressing this logo from another sub page you always get back to the main screen.
- Right of the Electronic Housekeeper logo: 2 temperatures. The first temperature is the average measured indoor temperature. The second is the estimated outdoor temperature of the selected weather area.
- Next to the temperatures you find an icon for the alarms. In case an alarm occurs this icon becomes red. You can go to the alarm screen by pressing this icon.
- Next to the alarm icon you find a node. This links to the player, and it is red when the player is muted.
- The next icon is for the alarm clock. It becomes red if the alarm clock is activated.
- To the right you will find a question mark. By pressing this icon you get help for the various pages.



The icons have the following features:



In the following we go through the various menus.





The icon at the main page of the Electronic Housekeeper shows the actual weather forecast in your area. Furthermore, n the top right corner two temperatures are shows. The left temperature in the square box is the average indoor temperature measured by the Electronic Housekeeper and the selected temperature sensors. The right temperature shows the estimated outdoor temperature, and is updated twice daily.



The weather menu gives a 3 day forecast for 3 areas. Select the city for which you would like at weather forecast, once selected you can change the city by pressing the button more than 5 seconds. By pressing the weather map a more weather forecast information is displayed.

on, jan 21 -09 11:56	₩ ∞ 1℃	\land	۲,	? 🗙
d≇ ∰ DMi Mobil	* Til lands <u>Til søs</u> Liuften Radarikn-satellit Nytheder			1
Tillands Regionaludsigter Nortiviland Motiviland Statisland Statis				
Weather in English Wetter auf Deutsch				

The default city where the Electronic Housekeeper is located is to be keyed in under general set-up. The Electronic Housekeeper uses this to collect the daily degree-day information and evaluate your heat consumption.





The traffic menu enables you to view your 3 favourite traffic web cams at the same time. The web cams are updated every 30 second.



By pressing the buttons you are able to select other web cams.





The Electronic Housekeeper is able to show online TV streaming.



For each country a list of free TV stations that are available on your Electronic Housekeeper. However, by logging into www.electronichousekeeper.com you are able to edit this list of channels yourself.

HOUSEN		Main Page Logout
Account	Name and Address Housekeeper Consuption E-mail Download	Alarm VOIP RSS Feed TVlist Radio list FM Radio liste Weblinks User Icon
Cover Rediger Label URL Address Add C	ancel	Remote control Choose Housekeeper: 0004987e 00049d72 00049d7c
Save Possible links	Reset Chosen links	00049b50 00049a16 00049907 00049c9f 00049be3
DR 1 DR1 Add	DR1 online Remove Change	00049976 00049867 00049877 0004968
DR2 Add	NDR - Norddeutscher Rundfunk: Remove Change	You are able to add links to other Internet channels, web cams or movies from your own PC / hard disk. Please remember that the streaming has to optimized to the Housekeeper. Please do contact us if you would like to add a link, so we can help you checking it out. For videos on a PC /
TV2 Add	NEWS sky News Remove Change	hard disc, the Housekeeper is able to play the following formats; Div X, Xvid, MPEG4-SP (plus B-frame support), PMEG1, M-PEG and Windows Media Video. We do recommend Xvid, 1200 kbit rate, max: 480 x 234 bitels and 16:9 format. The icons you make have to have a resolution of 104 x 46 invels

You are able to add other TV streams to your Electronic Housekeeper. The streams have to have the following specifications:

Maximum bitrate: 600 kbit/sec Maximum resolution: 480 x 234 pixels Formats: DivX, XviD, MPEG4-SP (plus B-frame support), MPEG1, MPEG and wmv (Windows Mobile)



You can either select some of the default channels or you are able to add some streams yourself. The streams have to be able to be played on a windows media player, and no flash streaming is possible on the Electronic Housekeeper.

Furthermore, for each channel you need to add a logo to be displayed on the Electronic Housekeeper. The size of the logo is to be 200 x 200 pixels.

The streaming looks like:



The streaming normally takes about 10 to 20 sec to start. If it takes more than 45 sec the Electronic Housekeeper goes back to the main screen. 5 sec after the streaming has started the Electronic Housekeeper plays is full screen mode. You get back to normal by pressing the screen.

We recommend a minimum of 1 Mbit internet connection in order to get the best quality.





The Electronic Housekeeper is able to play music from the following sources:



The media player index looks like:



You navigate between the albums or streams by the slider (main index) or by moving your finger across the area with the albums / streams (detailed index). You are able to change to list view by pressing the slider in more than 3 sec.

You select the album or track by pressing on the picture in more than 3 sec. The player will now start playing the selected music, and go to the player screen.



The center of the navigation wheel is for play / stop. The right and left circle parts are for next / previous track, and the upper and lower circle parts are for next / previous album or streams.

By this slider you are able to increase / decrease volume





By pressing on the cover you get a full screen view.

You are also able to remote control your player via Z-wave buttons, IR or app for mobile phones. The Z-wave buttons are defined via the "if-then-else" setup 4, and the IR is defined in "set-up" and "general" 4.

You are able to use the build in speakers or connect external speakers to the line out connector at the back of the Electronic Housekeeper. When using external speakers, they have to have a build in amplifier, and under "set-up", "general" you need to change "line out" to "on"

You are able to access the music from all pages by pressing the **U** in the top menu of the screens.



The Electronic Housekeeper player is able to play the following formats: MP3, WMA, AVI, MPEG-4, DivX, Xvid and MPEG4-SP. Videos have to be with a maximum bit rate of 600 kbit/sec and a maximum resolution of 480 x 234 pixels.

The music and videos are stored on a USB memory card connected to the Electronic Housekeeper or from a hard disc on your network. When using a hard disc on your network, please do notice that no user ID and password can be used; the Electronic Housekeeper has to have direct access to your libraries.

Storing music on a USB memory stick:

- Copy the desired music libraries from your computer to the USB stick
- Plug in the USB stick to your Electronic Housekeeper
- The Electronic Housekeeper will now ask if you would like to make a scan of your music. Answer Yes.

The Electronic Housekeeper now makes an index of the music, this may take several minutes. 4 GB takes about 6-8 minutes, and you can follow the progress by the XX% on the top of the main screen.

Getting the music from a network hard disc;

We kindly refer to Set-up and Media.





By pressing up or down the Electronic Housekeeper make a search of FM stations. The name of the stations is received via the RDS information from the radio station. The Electronic Housekeeper gets the FM-radio from the attached FM antenna.



The Electronic Housekeeper is able to play a list of online music channels. For each country we have selected a list of channels that are available on your Electronic Housekeeper. However, by logging into www.electronichousekeeper.com you are able to edit this list of channels yourself.

You can either select some of the default channels or you are able to add some streams yourself. The streams have to be able to be played on a windows media player, and no flash streaming is possible on the Electronic Housekeeper.

Furthermore, for each channel you need to add a logo to be displayed on the Electronic Housekeeper. The size of the logo is to be 200 x 200 pixels.



Several sites offer a list of available online music streams, such as: www.shoutcast.com or www.listenlive.eu or www.livelive24.com





The Electronic Housekeeper enables you to open internet pages without flash components. We have selected some default pages designed for mobile phones for the Electronic Housekeeper.



The Electronic Housekeeper system still runs in the background, and when you close the browser the normal layout of the Electronic Housekeeper appears again.





The Electronic Housekeeper has several hundreds of recipes in various categories. You are able to text the list of ingredients to your cell phone.



The index shows the various recipes within the selected category. You change category by pressing O You can view all recipes or your favorites only by pressing O

By pressing \heartsuit to the right of the recipe you add the recipe to your favorites.

By pressing vou are able to send the recipe shopping list to your mobile phone.



Simply select the number of the mobile phone and press send.

By pressing the picture of the recipe or the heading of the recipe you go to the specific dish.





For each recipe you get a description, the ingredients, a step by step guide and a link to other similar recipes. At the left side of the screen you have a link to both sending the recipe per SMS or to start a timer to keep track on your cocking.

03.10.2012 10:57	• 🆌 🖅 20°C 🛆 🎜 🏷 ? 🍤
Time	
(🍘 🕒 🕛 🔛





The devices are intelligent and speak wirelessly with your Electronic Housekeeper. Once installed, the units automatically remember when to turn on / off or increase / decrease. However, you are always able to control the units yourself via the touch screen of the Electronic Housekeeper console, other devices, mobile app, IR remote controls and the Internet.



Several wireless standards are at the market, of which some of the leading are:

Electronic Housekeeper mainly uses the open protocol Z-wave ® and makes bridges to other wireless and wired solutions such as ZigBee ® and IHC ® and KNX ®.



The Z-wave standard has an outdoor range of 80 meter and an indoor range of 20 meters between the various devices (nodes). The communication is a mess network, allowing the communication to be resend from one device to another. In total the signal can go through 4 devices, which equals $4 \times 20 = 80$ meter. All basic functions in Z-wave certified products for the European market will work directly with the Electronic Housekeeper, special features of some devices are implemented continuously to the Electronic Housekeeper.

Currently more than 700 products are Z-wave certified, more information is available at http://www.z-wave.com/modules/Products/

NB: All metal will reduce the RF signals. If the Electronic Housekeeper is not able to see a device it will be marked with an exclamation mark on the screen.



Specific Z-wave information

The following information is for use of products from Electronic Housekeeper together with other controllers.



Electronic Housekeper

Z-wave type: Controller.

Learn-mode: Under "general setup" -> select ZW-Control -> Select Receive Transmit "note-info-Frame" Under "general setup" -> select Send ZW-INF. Controller shift: Under "general setup" -> select ZW-Control -> Select Shift "Add node" (Inclusion): Under "general setup" -> select ZW-Control -> Add device. "Reset node" (Exclusion): Under "general setup" -> select ZW-Control -> Remove.device.



Z-wave type: Binary-Switch
Sub Z-Wave-type: Pulse-meter-class (Watt-hour)
Sub Z-Wave-type: Meter-meter-class (Kilo-Watt-hour)
Pre-set of consumption counter: Config-class - parameter 0 – length 4 bytes msb first (Integer)
Send "note-info-Frame": Press the lid.
Add to a network: Press add on the control unit -> Press the lid
Remove from a network (reset): Press remove on the controller -> Press the lid
Device reset: Press the lid for 10 sec while powering up the device.



Z-wave type: Multilevel Switch



Send "note-info-Frame": Press the button. Add to a network: Press add on the controller -> Press the button Remove from a network (reset): Press remove on the controller -> Press the button



Device Control

The main screen of device control on the Electronic Housekeeper console has the following layout:



The various devices are listed, in this example 3; PC, STROM and DIMMER. By selecting a specific device, it becomes green, and the options are highlighted to the right of the screen. The selected device is a switch that can be turned on / off and has a build in meter. In the actual view only the desired devices are listed, for each device you are able to choose in which screens is should be listed. Other views are:



Furthermore, the devices are categorized into electricity, water and heat. The current view is electricity, by pressing you go to the next category.

The statistic screen of a meter has the following layout:

26:04:2012	09:50	٠	¥	24°C 12°C 🔺 🎜 🏷 ? 🍕
	Power			
	Counter			2911163
	1 hour			0,354
	Load			450 W
				REFRESH

The "counter" value shows the last read counter value of the meter. The default frequency of the readings is once every hour. However, in "set-up", "General" and "Readings" you are able to select other reading intervals e.g. every 15 min.

The "1 hour" value expresses the consumption the last hour.



The "load" is the actual load of the meter.



Set-up of a specific device or group of devices.

Adding devices

In the following we describe how to add a device to the Electronic Housekeper.



Use the following steps when adding a device:

- Select **Select** Select **Select**
- Select "add module" and choose the "type of device" you would like to add. You are able to choose between; 1) Device, 2) Group, 3) Bridge, 4) Virtual and 5) Statistic. Devices are all basic Z-wave device (like Switchkeeper or Lightkeeper), Group is a group of devices, Bridge is a device that bridges to a list of other standards (like Bridgekeeper 1 and 3), Virtual is virtual Z-wave devices on the Bridge (like power, water and heat meters) and Statistic is devices used statistic purposes only.
- In order to add a device is has to be within a few meters from the Electronic Housekeeper. Also existing connected devices should be turned on before adding a new device, this in order to establish the mess network set-up in each device.
- Press the button on the device to include / exclude the device. Please read the installation manual for the specific device for how to add which varies from one product to another - like sometimes you have to press a specific add button and sometimes you need to press an on/off button 3 times (e.g. Merten devices).

When the configuration screen appears, then the Electronic Housekeeper has found the device.



Fill in the special conditions for the device and press OK. The device now appears in the list of devices, and you are free to relocate the device to where it is to be used. Once a device is connected to the Electronic Housekeeper, then no other Z-wave network or master units are able to use the device. So your system will not interfere with similar systems at your neighbors.





In the following we go through the various set-up options for devices. Some are generic whereas others depend on the specific device.

Name: Here you add a familiar name for you device

Type: Here the Z-wave description of your device is displayed.

Location: Location of your device

Schedule: This set-up option allows your device to be controlled by a schedule 15 minutes around the clock. You are also able to differ between workdays / weekends and surveillance / no surveillance mode. So e.g. the light might be turned on when you are not at home, to simulate you are at home.

Connected: Here you inform what your device is controlling, e.g. a TV set.

STB value: This feature is to measure the standby value of the attached device. You set the standby mode by:

- Connecting the appliance to the device and put it on standby mode.
- Pressing the button and the device is now measuring the actual consumption.

The feature is only possible for devices with build in meters, like the Switchkeeper. The value is used together with the "standby mode" below.

STB mode: Here you decide how your Switchkeeper is to react, when the attached devices reaches the stand-by level. You have 3 options:

- **Off** means that the standby feature is disabled.
- **Normal** means that no matter when the device measure a consumption that is less than the standby value, it turns of.
- Timer only means that the standby function is controlled by the on- and off periods in the schedule. The standby function is disabled in the on periods and activated in the off periods.

STB timer: This option is used to determine how much time must elapse from the unit is in standby to be turned off. The values are from 20 sec to 5 min.

Timer: This option overrules all other setting when activated. You specify how long a device is allowed to be turned on. This is an extra security in case you forget to turn off your TV set and therefore it newer goes in standby mode and is turned off. Or if you would like a maximum on how long you are allowed to watch TV. When the value is 0 it is deactivated.



Rem Ctrl: You have two options for remote control.

- Activated allows you to make remote control of the device.
- Deactivated stops you from making remote control of your device. The device can only be controlled via the buttons on the device itself. However, the schedule and standby settings are still active.

Sched enable: Here you easily can activate or deactivate your schedule without destroying your settings.

MTR offset: This offset is for devices measuring meters – like; power meters and water meters. The offset is added to the measured value from the meter.

MTR factor: This setting is for devices measuring meters – like; power meters and water meters. This factor is used to convert number of measured pulses to e.g. kWh or M3. For example the value will be 0.01 to convert a meter giving 100 pulses per kWh.

MTR mode: This option is for sensors able to measure both by measuring LED blinks or by both sending LED light and measuring the LED coming back.

Reading Type: This option is to categorize the meter to be either a total meter for electricity, water or heat, or to be a sub meter. This is for statistic purposes.

LED mode: Here you are able to decide how the LED of the Switchkeeper reacts; normal, delay and blink.

Wake up: This option is the wake up interval for battery powered devices. The interval goes between 5 min to 4 hours

Events: Link to the alarm set-up screen for setting up; "if then else" rules.

Association: This option makes direct links between the actual device and one or more other devices. This link works locally between the devices and ensures imidiate response. It might be used when you would like a movement sensor to turn on the light via another device.

Picture: For all meters there are standard pictures for each category. However, you are able to select a picture for your specific meter as well. This pictures is used in the "device" "stat" option.

Pulse alarm: For specific water sensors with build in water stop functions. You select how many M3 may run through before the water is stopped.

Time alarm: For specific water sensors with build in water stop functions. You select how long time the water is allowed to run.

Local off: For specific water sensors with build in water stop functions. Activate or deactivate the water stop function


Visible: This option allows you to choose where you would like to display the device. All = all pages with devices and statistics, List = the default selected group and device list O, Statitics = statistics only, None = not to be displayed. However all devices will be visible

when choosing

Source: This option specify if a power meter is analogue or digital.

Nilan: The Nilan option goes into a specific Nilan menu with detailed information about the Nilan units and Nilan settings.

Deleting a device

In the following we describe how to delete a device from the Electronic Housekeper.

Use the following steps when deleting a basic device:

 Select the device you would like to delete, select "set-up" and press delete. Now the following screen will appear



- Select the "delete device" and press the button on the device to include / exclude the device.
- When the device is removed from the Electronic Housekeeper, a new screen appears with the text "DEVICE SUCCESSFULLY REMOVED" press "DONE"
- The device has now been removed from the list of devices on the Electronic Housekeeper.

PS: In case a device is to be moved from one Z-wave master like the Electronic Housekeeper to another, then you first have to delete the device before you can add the device to the new master unit.

Other controllers





In order to add other sophisticated controllers (e.g. other Electronic Housekeepes) you need to go to "set-up" "general" and select the option "ZW control". At the master unit you need to select "send" and at the slave unit you need to select "receive". The Electronic Housekeeper is able to both work as a master and a slave unit, and you are able to have several Electronic Housekeeper units connected in one network.

22.09.2012 15:17		٠	¥	24°C 15°C 🔥	- 🔋 ? 5
			Choose		
ADD DEVICE	0			•	REMOVE DEVICE
SEND	0			•	SHIFT
RECEIVE	0			0	

If you have two Electronic Housekeeper units connected, then the device settings are copied from one Electronic Housekeeper to another. However, this does not apply for none Electronic Housekeeper controllers. NB: Please be aware that all device devices are copied from the master to the slave controller. In case you do it wrongly, all your device settings might be lost.

Bridgekeeper 1 (IHC)

The Bridgekeeper 1 makes a bridge between Z-wave and the IHC ® system from Laurits Knudsen, and multiple sensor inputs from e.g. power meters. The Bridgekeeper 1 is able to replace a basic IHC controller or to work in parallel with an existing IHC controller.

Installation





The Bridgekeeper 1 is connected to the other IHC ® modules via the IHC bus, and the Bridgekeeper 1 is powered via a basic IHC ® power supply. The Bridgekeeper 1 has 64 in and output, M-Bus, S0 pulse input and optionally the IHC in- / output ports are to be set-up for pulse input as well.

Connections



Terminal 1 - 4:	M-Bus connection for various meters, like Kamstrup power meters. The Bridgekeeper 1 is able to have in total 5 M-Bus units connected.
Terminal 5 og 6:	S0 input from a pulse sensor, like a Sensus water meter.
Terminal 5 og 7:	Analogue input
Terminal 8 og 9:	24 V d.c. / 24 mA power supply.
Terminal 10 – 24:	Data and 0V. These connectors are for communication with the IHC in- and output modules or IHC controller ®. In total maximum 8 output modules and 4 input modules might be connected

Power Supply

The power supply to the Bridgekeeper 1 is to be made according to the National Electrical Code Standrad Handbook ("Stærkstrømbekendtgørelsen") chapter 6 ("Electrical Installationes"), chapter 41, 411.1 from a 24 V D.C. power supply with a safety transformer, (SELV).

Chose of low power cabling

The cables used have to be according to the National Electrical Code Standrad Handbook ("Stærkstrømbekendtgørelsen") chapter 6 ("Electrical Installationes"), chapter 52, We recommend IHC LINK-6 or IHC LINK-10 cabling.

Data connections toIHC In- and Output modules

We refer to data sheet from Lauritz Knudsen about the respective products.

Data connections to M-Bus



To avoid ring connections in the data coupling the 0 V cable is not to be looped. Cable length: maximum 25 meters.

Data connections to S0 pulses

Cable length: maximum 25 meters.

How to connect a Bridgekeeper 1

The Bridgekeeper 1 is added as other Z-wave controllers.

- Select 💿 on the list of devices
- Select "add module" and choose "add Bridge"
- Use a small metal piece to press the button hidden in the front plate of the Bridgekeeper 1.
- Fill in "Bridgekeeper 1" as the name of the device. Select "none" in "visible" as the Bridgekeeper is not to be in you normal list of devices used daily. Then press "OK".

Configuration of connectors

The connectors on the Bridgekeeper are now to be configured. This can be done locally in the Bridgekeeper 1 or as virtual Z-wave devices on the Electronic Housekeeper.

When the configuration is done locally in the Bridgekeeper 1, the Bridgekeeper is able to work independently of the Electronic Housekeeper.

Normally, you configure the basic connector settings directly in the Bridgekeeper 1, like which input ports should turn on / off specific output ports. Only those output ports that you would like to control from the Electronic Housekeeper is recommended to make as virtual devices. The virtual devices on the Electronic Housekeeper will perform as any other Z-wave device, which allows you to e.g. make schedules or if-then-else" rules.

All sensors for various meters are to be made as virtual devices on the Electronic Housekeeper. For each sensor you define weather it is a pulse (like Sensus water meter) or an M-bus sensor (Like Kamstrup power meter). In general settings you need to select "Readings" in order to select how often the Electronic Housekeeper is going to store the readings.

Pulse meters device setting

- Key in the pulse counter in "MTR OFFSET"
- Key in the consumption factor in "MTR FACTOR"
- Select "READING TYPE", only "Total house" meters are used for energy guidance.

For a power meter giving e.g. 150 pulses per kWh, you need to key in 1/150 = 0,00667 as "MTR FACTOR".

The Electronic Housekeeper makes the first reading after 15 min, when selected in the "general set-up".



M-Bus meters device setting

- Key in the M-Bus address in "ADDRESS"
- Select "READING TYPE", only "Total house" meters are used for energy guidance.

In case you use a secondary meter to e.g. the main power meter, then we recommend to key in an offset value equivalent to the main meter.

The Electronic Housekeeper makes the first reading after 15 min, when selected in the "general set-up".

NB: The Electronic Housekeeper only reads M-Bus data from selected meters like Kamstrup and Ista meters. In case you have a request for use of other meters the you need to contact our hotline.

Bridgekeeper 1 configuration via basic text editor

This part is for professionals used to make scripts. The syntax is as follows:

Input ports:

IX – input pin, where X is in the interval from 0 to 63 FX – function for input, where X is the function number

Functions:

- 0 PIN_IN_FUNC_FALL activated when the button is released
- 1 PIN_IN_FUNC_RISE activated when the button is pressed
- 2 PIN_IN_FUNC_1SEC makes a pulse in 1 sec when pressed
- 3 PIN_IN_FUNC_2SEC makes a pulse in 2 sec when pressed

Output ports:

OX – output pin, where X is in the interval from 0 to 63

FX - function for output, where X is the function number

Functions:

0 – PIN_FUNC_NONE - No action 1 – PIN_FUNC_TOGGLE – Tilt function, switch to opposite state 2 – PIN_FUNC_SET_ON – Turn on 3 – PIN_FUNC_SET_OFF – Turn off 4 – PIN_FUNC_IN_EQUAL_OUT – Output follows input 5 – PIN_FUNC_TOGGLE_SYNC – All outputs follows the state of the first output

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Example:

By pressing input 1 you would like to control output 4: I1F0O1O2O3O4F5, if the first lamp is on, then all the other lamps will be turned off and vice versa.

// EH 0: Sensor by front door I1,F0,O1,O2,F2 I1,F1,O1,O2,F3 //EH 1: Tilt by front door I2,F0,O3,F1 //EH 2: Sensor bath 2 ; L/HK19, Turn off after 10 min I3,F0,O4,F2 I3,F1,O4,O5,F3 //EH 3: All off I4,F1,O1,O2,O3,O4,O5,F5

"//" are used for comments and overview only.

We recommend using Notepad as editor. Once finised, then you program the setting into the Bridgekeeper by:

- 1. Saving the program file ".txt" on an USB-flash memory
- 2. Inserting the USB flash memory into the Electronic Housekeeperen

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\Storage Card		
FOLDERE	Files	
Storage Card		
Network DiskOnChip		
Recycled	VoipLog.TXT	
		SELECT

- 3. Going into "set-up", "general" and selecting "LOAD IHC". Here you select the file from your USB flash memory, and the Electronic Housekeeper will then send the configuration to the Bridgekeeper 1.
- 4. Now test your installation, and if necessary redo the process.
- 5. Continue via the Electronic Housekeeper. E.g. you might combine some virtual devices via other Z-wave device or make "if-then-else" functions.

We recommend creating all output devices on the Electronic Housekeeper as well as on the Bridgekeeper. This gives you most security on performance and most features as well. Also in order to test your settings, we suggest making an all off group with all devices included. Please notice that the EH connector number is one less than the IHC connector number.



Hint: If you would like to combine the Bridgekeeper 1 with an IHC wireless controller, you are able to do so by connecting the output from the IHC wireless controller with input on the Bridgekeeper 1 and visa versa. Hereby, you are able to integrate all basic functions from the IHC Wireless controller into the Electronic Housekeeper.



Group set-up

Groups are added the same way as devices. For each group you are able to add members.

Devices might be linked to several groups. Groups might be linked to other groups.



For each group you are able to add several members or other groups. A device might be connected to several groups.

The schedule for groups is controlled by the Electronic Housekeeper. For battery powered devices the changes will only be applied to the device when it wakes up.

There are 4 special standard groups, these are used to control the overall status of the home. There is a special feature for the standard group "REMEMBER". When you press this button the Electronic Housekeeper remembers the state of the group members. This state is activated under "System State" ^[Sol].







The alarm part of the Electronic Housekeeper has 4 options:

- 1. New alarms
- 2. Historic
- 3. Set-up
- 4. Alarm clock

In the following we go though these options.

🖤 New alarms



This menu lists all active alarms. Alarms will remain here until manually cleared by selecting them and press "clear" or when being reset by the system.

When alarms are on this list the \triangle on the top of the main screen becomes red.

The list of alarms contains both system alarms and alarms based on the "if-then-else" setup of alarms made by the user.





This menu list all alarm events in the system. The menu is used to e.g. see when the surveillance has been turned on and off.

03.10.2012 12:56	• ǐ	24°C 14°C \land 🌈 🍢 ? 5
Date and Time	Туре	Status Info 🔵 🗋
03-10-12 12:06	Fuse	BK1
02-10-12 14:16	Surveillance off	NEW
01-10-12 14:29	Server connection error	System.Net
28-09-12 13:21	Fuse	BK1
24-09-12 10:04	Node failed	LK
(f) 🌖	•	



22.09.2012 20:28	٠	Ă	25°C 7°C	▲ 5	2?	5
Туре				System		n
Server connection error				YES		
Node failed				YES		
Fuse				YES		
@Nilan alarm				YES		M
New EH version has been instal	led			YES		
🕐 🌚 😲 🛑	NEW					

System alarms

Server connection error The Electronic Housekeeper was not able to connect to the server. If this alarm happens often it indicates that the network set-up of the Electronic Housekeeper has to be changed. Often it might be advisable to disable the DHCP and select a permanent IP address. Node failed The Electronic Housekeeper lost connection to a device / node The Bridgekeeper is not able to communicate with an attached Bridgekeeper error sensor, like error on the M-Bus communication with a Kamstrup power meter. New EH version has been installed New software version is successfully installed. Surveillance on System state has been changed to "surveillance" When the system state is "surveillance" and a movement is Movement detected detected, then this alarm is generated. Surveillance off System state has been changed back from "surveillance" Nilan alarm Specific alarm for Nilan ventilation systems Battery needs to be replaced in the device Battery low

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These alarms cannot be edited nor deleted. You are only able to decide if you would like to be notified when this alarm happens. The notification will be send to the e-mail or mobile number entered the system on out homepage www.electronichousekeeper.com

"lf-then-else" set-up

The "if-then-else" allows you to make the behavior of one device depending on other devices and the system state. This might be usable in the following cases:

Ex 1: "Night pee route". This is used to turn on some light at night time, in order to illuminate the way to your bathroom. You select some movement sensors, connect those to some Switchkeepers and select that this is only activated when the system is in night mode.

Ex 2: A wall switch that is to control the light at another power outlet. This is similar to programming IHC scripts for in- and output ports on the Bridgekeeper 1.

Ex 3: Movement sensor, that turns on / off the light in your hallway when you enter your home.

The "if-then-else" rules are controlled by the Electronic Housekeeper. In case you would like e.g. a PIR sensor / movement sensor to turn on / off the light locally, we recommend to do make an "association" in device set-up.

In order to make a new "if-then-else" function you need to press the button and go through 4 steps. The first screen is the "if" condition.

Step 1: IF

Select the device, device values, night and system mode that is to activate the event. You start by pressing the
whereby you get a list with the devices connected to the Electronic Housekeeper. If this example we have chosen the PIR sensor within the Electronic Housekeeper. When it is "on" (movement detected) and Night is "on" (only at night times) and System is in "Surveillance mode" then this event is activated.







The options vary depending on the device you have selected. Here we describe the characteristics of them:

SWITCHED: Activated when the device is on or off. Applies for almost all devices, but is often used for movement sensors (PIR)

ABOVE: Activated when the value is above 0 to 90 as percentage of maximum output from the device. It could e.g. be used to turn on other dimmers when the main dimmer is above 50%.

BELOW: Activated when the value is below 100 to 10 as percentage of maximum output from the device. It could e.g. be used to turn on other dimmers when the main dimmer is abelow 20%.

T-ABOVE: Activated when the temperature is above a certain level. Useable for controlling indoor temperature with e.g. Danfoss radiator thermostats. The interval goes from -20 to 100 degrees in steps on 1 degree.

T-BELOW: Activated when the temperature is below a certain level. Useable for controlling indoor temperature with e.g. Danfoss radiator thermostats. The interval goes from -20 to 100 degrees in steps on 1 degree.

LUM ABOVE, LUM BELOW, HUM ABOVE and HUM BELOW: same logic as for "ABOVE" and "BELOW". These options are available for devices measuring lumens and humidity.

ALARM: Here you are able to define that an alarm should be raised when the event happens. For example it might be usefull to generate an alarm in case the temperature drops below a certain value. This event could then be sent as SMS to alert you.

NIGHT: This options is to reduce the event only to be activated in night time. Usefull for e.g. PIR sensors to turn on the light, but only in night times.

SYSTEM: This option is to reduce the event only to be activated when the system is in surveillance mode. Hereby, you can chose to have a PIR sensor to turn on / off the light with one "if-then-else" set-up, and with a new "if-then-else" set-up you can determine the PIR sensor to send an alarm if movement is detected and the system is in surveillance mode.



Press "next" to continue.

Step 2: THEN (Yes)



In the next step you select which device is to be controlled when the event is activated.

Once again you start by selecting the device you would like to control by pressing . In this example we have selected a switch, which is turned on when the conditions under if are met.

The actions vary depending on the device you have selected. Here we describe the characteristics of them:

SWITCH: Turn on / off a device.

LEVEL: Turn on a device at s specific level, e.g. setting the dimmer value to 75%

DELAY: Defines how long time to wait to take action after the conditions is met.

STATE: This applies for groups only. You are able to active a group state by e.g. turning on a switch.

Press "next" to continue.



Step 3: ELSE (No)



Here you decide what is going to happen when the conditions are no longer true, in our case when there is no longer any movement detected. We have selected to turn off the switch without any delay.

You do not have to have both an event if in both "then" and "else", it all depends on how the behavior of the specific devices.

The action options are the same as for "then".

Press "next" to continue.

Step 4 Name and notify



On the last page you nave the event and decide if you would like the system to notify you as well.

In case you have several movement sensors connected to the Electronic Housekeeper we recommend that you join them in a group, and make a rule for the group overall, generating an alarm in case of movement. Each sensor might control a switch locally, but this relation you are also able to make as a direct link in the device set-up.







The alarm clock allows you to use the Electronic Housekeeper to wake you up with online streaming of music. Simply select time and station, and the alarm clock function start working.





This menu is for changing the state of your home, and thereby which function the various devices connected to the Electronic Housekeeper should have. The Electronic Housekeeper has the following status options:



The functions to carry out when these statuses are activated, are defined under device set-up

- First you add devices to the specific group
- Secondly you turn on / off, set the desired dimmer level, set the desired temperature level, make the rules for "if-then-else" etc.
- Finally, you select "remember" and the status of the devices is remembered.

When you change the status to e.g. "all off" the desired status will be sent to the devices in the group. A movement sensor (PIR) might be inactive in "I am home" state, whereas it turns off the light in "Night" state and sends an alarm in "Surveillance" state.

Via the "if-then-else" rules settings or the IR set-up under "set-up" and "general" you are able to turn a group on or off. However, you are only able to activate a state in the state screen.

The "surveillance" state is special as it has a 4 digit password, chosen in the set-up on www.electronichousekeeper.com

The Surveillance state might also be activated via the "if-then-else" settings.



The "surveillance" state is activated 2 minutes after the password has been accepted.



When "surveillance" state is active an alarm is sent to the central server in case of movement. If you have entered you e-mail then receive an e-mail like:



The Electronic Housekeeper sends those to the central server. You are able to view these pictures by logging in, select "remote control" and "camera view". Pictures look like:



If you have entered your mobile phone number, your will receive a text message with a link for the remote control of your Electronic Housekeeper. Here you can request a picture.

Alarm set-up on the User account

The set-up of alarm notification is made via the "Alarm" menu:

		Main Page Logout
	NUUSEREEFEN FRUDUCIS EANITREEFEN WRU WE ARE SUFFUTI UNLINE SHUF	
Alarm	Account Name and Address Housekeeper Lonsuption E-mail Download Menn VUIP R55Per	d TV list Radio list FM Radio liste Weblinks User Icon
Your Housekeeper is	able to send alarms in case of emergency	Setting Chose Housekeeper setting for: Frans Merriid
Please select in which	e-mail SMS	Add pow year
First priority	frans@electronichousel 26724047	Add Hew dser
Second priority		
Third priority		Remote control
Your Housekeeper exp	ects the receiver to confirm the alarm. If the alarm is not confirmed the alarm is send to the next on the list.	Choose Housekeeper: OOO498fe
How long time to wait I	before resending the alarm 0 minutes	00049d72
		00049cdc
Web en		00049050
web car	ns	00049907
		00049c9f
	Valgte links:	00049976
Tilføj link		00049a87
		00049a77
	Reset	000 10000

The 4 digit code is entered via the "Name and Address" menu:

	ekeeper 🏠	Mein Page Logout
HOUSEK	EEPER PRODUCTS EARTHKEEPER WHO WE ARE SUPPORT ONLINE SHOP	HOME I PRESS I USER LOGIN
Account	Name and Address Housekeeper Consuption E-mail Download Alarm VOIP RSS Feed	l TVlist Radiolist FM Radioliste Weblinks User Icon
Name & Add	ress	
Name :	Electronic	
Surname :	Housekeeper	
Address :	Maglebjergvej 4	
Zip code :	2800	
City :	Lyngby	
Country :	Denmark 👻	
Phone :	70234047	
MobilePhone :		
Birth :	1 -1 -1	
Køn:	Male : 💌	
No of people in household :	1	
Allow000498fe	yes 💌	
Descurrent familier and the second familier		





The statistic main screen is to give you an overview of your consumption of electricity, water and heat.

Main screen



Here you see how your consumption has changes over the last month. In case the consumption increases more than 15% an alarm is generated as well.

you get some

By pressing "30 DAYS / REF" you toggle between 30 days and your energy profile as a reference.

By pressing "Devices" you go to detailed consumption information for specific devices.

By pressing "Profile" you are able to modify your energy profile.

Key performance values

The key performance values have been selected based on input from Elsparefonden and the Class 1 project.

The reference building is either based on the energy profile you have or a group of buildings you have selected.

The consumption per M2, person and night allows the user to get an easy overview, and compare it with the expected usage. Especially the consumption at nighttimes tells you how much basis consumption is used at all times. By e.g. plugging in a "plug in meter" in front of various appliances you are able to find out which units are responsible for unnecessary consumption.



26:04:2012	1:39 🍝 🎽	°C 20°C	🛆 🎜 🍃 ? 📀	
	Power			
	Last 30 days Reference building Per M2 Per Person Night		800 kWh 64 % 5 kWh 200 kWh 334 kWh	
ном	TO SAVE	ES	PROFILE	

From this screen you are able to go to "how to save", "devices" and to change your "profile".

Devices

The device screen view gives detailed consumption information for various devices, like your total electricity consumption or the consumption of your TV set.



For each selected device you can view:



These will be described in the following.



Historic view - Normal



In the historic view you are able to see the consumption monthly, daily and hourly. Furthermore, you are able to toggle between; 1) normal view, 2) weather adjusted 3) reference group and 4) budget. The weather adjusted only applies for degree day depending usage. The reference group view shows your consumption compared with your energy reference. The budget you are able to key in on the homepage.

Historic view – Reference



The purpose of this is comparing your consumption with similar buildings. In the specific case you see that overall this household uses more than the other buildings, only in October and November the consumption of this household is less than the others.



Comparation view - Reference



In the comparation view you are able to compare two periods with one another. You are able to toggle between; 1) normal view, 2) weather adjusted 3) reference group and 4) budget. The weather adjusted only applies for degree day depending usage. The reference group view shows your consumption compared with your energy reference. The budget you are able to key in on the homepage.

Table view – Weather adjusted

26:04:2012 11:41		٠	¥	°C 20°C		* 🐤 ? 🔊
Day	Month	2011	2012	Dif	Dif Pct.	
Week	Jan Feb	1.235 1.490	2.598 1.211	1.363 -279	110% -19%	
Month	Mar Apr May	888 606 524	891 552 535	2 -54 11	0% -9% 2%	۲
Year	Jun Jul Aug	445 381 540	471 394 438	26 13 -101	6% 4% -19%	
Weather Adj	31-12-2012	9.110	10.591	1.481	16%	

The table gives detailed consumption information daily, weekly, monthly or yearly. You are able to toggle between; 1) normal view, 2) weather adjusted 3) reference group and 4) budget. The weather adjusted only applies for degree day depending usage. The reference group view shows your consumption compared with your energy reference. The budget you are able to key in on the homepage.

The degree day information is automatically calculated based on the temperature information for a specific region. Degree days are calculated as 17 subtracted the average outdoor temperature, so if e.g. the temperature is 10, the number of degreed days is 7. For degree day depending usage, the "dif" will be compensated for the weather change from one period to another. So e.g. if the usage has been increased by 10% and the weather has been 7% colder, then the compensated consumption will be 3%.



Table view - Budget

26:04:2012 11:41		٠	¥	°C 20°C	▲ 「	🦻 ? 5
Day	Month	Budget	2012	Dif	Dif Pct.	
	Jan	200	675	475	237%	Ę
Week	Feb	200	315	115	57%	
	Mar	200	231	31	16%	
Manth	Apr	200	143	- 57	-28%	
Month	May	200	139	- 61	-31%	
	Jun	200	122	- 78	-39%	
Year	Jul	200	102	- 98	-49%	
	Aug	200	114	- 86	-43%	N
Budget	31-12-2012	1.600	1.842	242	15%	Ť

The values shown are in local currency e.g. \in , and the budgeted monthly amount is 200 \in . The monthly budget is keyed in on the homepage. The price per kWh or M3 is entered under general set-up as power price, water price and heat price, e.g. for power we use 0.30 \in as default.

Profile

Based on simple questions the Electronic Housekeeper is able to estimate an annual consumption, or the user is able to key in a known consumption of electricity, water and heat.

Screen 1:



The first screen refers to the residents of the households.



Screen 2:



The second screen refers to the size and insulation of the building.

Screen 3:

on, maj 23 -12	14:11	₩ 28°C 0°C	▲ 5	2 ? 5
Based on your a are listed below. as well.	swers we have estimated you If you know your actual consu	r annual energy consumptio mption, please key in these	n. There values	nption
	-		• •	sur
Electricity	Calc. 4100 Actual 0 kWh		?	ŝuc
Water	Calc. 3302 Actual 0 m3			ŏ
Heat	Calc. 17816 Actual 0 kW	h 🔰 🤇		ок

The last page gives an estimated yearly consumption based on simple algorithms. However, in case you know the actual consumption of your household, you are able to key in this information, and it will overrule the estimated consumption in the energy guidance. For the Class 1 project we added an energy reference group option on the last page. It can be e.g. the other houses in the area or other similar houses throughout Europe. The reference groups are generated centrally by the system administrator.



How to save

The Electronic Housekeeper provides some basic guidance of how to make simple energy savings on a day to day basis.



The advices are an ongoing process; more advices are added and tailored to the energy profiles and regions of the buildings.





The Electronic Housekeeper is able to either synchonise with Outlook and an e-mail account or simply to link directly to an online e-mail account like gmail.

You select the mail setting in "set-up" "general" and "mail option". 1) Outlook 2) web mail.



When choosing Outlook you also need to answer:

- E-mail check: How often to check for mails
- E-mail max: The maximum number of e-mails to be listed

Furthermore, you need to go to www.electronichousekeeper.com and key in the basic email information:

HOUSEKEEPER PR	ODUCTS EARTHKEEPER WHO WE ARE SUPPORT ONLINE SHO	P HOME I PRESS I USER LOGIN
Account Name and	Address Housekeeper Consuption E-mail Download Alarn	n VOIP RSSFeed TV list Radio list FM Radio liste Weblinks User Icon
E-mail		
In order to be able to receive e-mails on you Name	r Housekeeper we need the following Frans Merrild	Setting Chose Housekeeper setting for: Frans Merrild
E-mail address	frans@electronichousel	Add new user
Incoming mail (POP3)	pop.gmail.com	
Username	fransmerrild@gmail.con	
Password	Change	Remote control
Only e-mails listed in your contacts?	no 💌	Choose Housekeeper:
Test connection		00049970
		00049b50
Save		00049be3
		00049907
		00040516
		00049810
		000498fe
		00049668
		00049a77
		00049d72

Also in order to sunchronize with Outlook, you need to download the program awailable on www.electronichousekeeper.com



	housekeeper 1' T	Main Pa	age Logout
	HOUSEKEEPER PRODUCTS EARTHKEEPER WHO WE ARE SUPPORT ONLINE SHOP	HOME PRESS	USER LOGIN
	Account Name and Address Housekeeper Consuption E-mail Download Alarm VOIP RSS Feed TV list	Radio list FM	Radio liste Weblinks User Icon
Down	lload		
Title	Description	Download	Setting
Download Outlook synchronization	Prior to running Electronic Housekeeper Outlook synchronization -program, you will need to install the .NET Framework, version 3.5. If you do not currently have the .NET Framework installed, you can get it at Windows Update (http://windowsupdate.microsoft.com/), or here (http://windowsupdate.microsoft.com/)	Download	Frans Merrild
software	For Windows Vista users there is no need to download .NET Framework because it is included into this operating system.		Add new user
EHImageFixer	This program optimizes your pictures to ensure maximum joy when viewed on your Housekeeper. Windows XP: You must have Microsoft .NET Framework 3.5 installed. You can download it at Microsoft. Windows Vista: You already have everything needed.	Download	
			Choose HouseKeeper: 00049976 0004956 0004950 0004950 0004957 0004957 00049387 00049387 00049668 00049668 00049377 00049377

When using web mail you only need to key in the link to your mail provider homepage in the field "Mail provider" in General set-up.







Set-up allows you to change the basic parameters of the Electronic Housekeeper.

General set-up

In general set-up you are able to set overall parameters for the Electronic Housekeeper.



At the right side of the screen the Electronic Housekeeper ID, EH version and OS version is displayed.

SCREEN OFF	Indicates how long time must elapse before the Electronic Housekeeper turns off the screen. It varies from newer to 30 min.
SCREEN DIM	Indicates how long time must elapse before the Electronic Housekeeper dims the screen. It varies from newer to 30 min
SCREEN SAVER	Indicates how long time must elapse before the Electronic Housekeeper turns off screen saver screen. It varies from newer to 30 min.
SLIDE SHOW	Pictures for slideshow when playing music. This is described in more details below.
LINE OUT IR	Activates / deactivates the build in line out Set-up of IR remote control functions of the Electronic Housekeeper. This is described in more details below.

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CALIBRATE	Calibration of the screen. Due to transportation and installation of the Electronic Housekeeper, it might be advisable to recalibrate the screen. However, in case you recalibrate the screen please follow the guidance carefully, as you might make the touch panel useless if you do not do it right.
SCREEN WAKE	Option of weather the screen should be activated by movement or by pressing the touch panel.
RESET	This option is for resetting the Z-wave network. It is strongly recommended to contact our customer service before resetting your Z-wave network.
T OFFSET	The Electronic Housekeeper is able to calculate an average of various temperature sensors in your home. However, depending on the location of the sensors it might be useful to offset the temperature in order to get the right picture of the indoor temperature.
OPTIMIZE	This is a Z-wave command to optimize the Z-wave mess network. It might be handy when doing a larger installation and you would like to optimize the network.
LANGUAGE	Change the language of the various pages on the Electronic Housekeeper.
READINGS	Indicates how often the Electronic Housekeeper makes readings.
EMAIL CHECK	When using Outlook synchronization of e-mails on the Electronic Housekeeper, you can indicate
EMAIL MAX	Indicates how many e-mails you would like to have displayed on your Electronic Housekeeper.
SEND ZW INF	Sends the Z-wave information of the Electronic Housekeeper to the mess network.
ZW CONTROL	Used to add more Z-wave controllers in a network, like more Electronic Housekeepers. For the master controller you press "send" and for the "slave" controller you select "receive". The Z- wave nodes are the accessible on both controllers, but settings only possible by the master controller. NB: please be aware the by doing "send" and "receive" wrongly, all Z-wave setting of the master controller will be erased.
BLUETOOTH LOAD IHC	Not activated Local IHC scripts of the Bridgekeeper 1. This is described in more
	details in the chapter Control. Bridgekeeper 1 IHC.
WATHER	Indicates which link the Electronic Housekeeper goes to when pressing the weather map on the weather screen.
ENERGY	Links to the set-up of your Energy Profile
CAM URL	Indicates which web cam stream the Electronic Housekeeper should activate when the "if-then-else" event set-up is activated. Like when the doorbell button is pressed, then start streaming for the web cam at the front door.
POWER URL	Links to the energy guidance screen for power.
WATER URL	Links to the energy guidance screen for water.
HEAT URL	Links to the energy guidance screen for heat.
POWER PRICE	Price per kWh for statistic purpose

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WATER PRICE HEAT PRICE MAIL PROVIDER

Price per M3 for statistic purpose Price per kWh for statistic purpose Web mail provider e.g. gmail.com

In the following we go through some of the more complex options listed above.

IR set-up



Your Electronic Housekeeper is able to receive IR commands from the following remote controls:



However, other brands might also be useable. Like many manufactures uses the Phillips standard. You select the IR protocol by pressing "set".

The right side of the screen is a list of devices and player control functions that you are able to control by IR. The left side is the devices and player functions where an IR command is already linked to.

You add a new IR command by selecting a function at the right side, pointing the IR remote control against the Electronic Housekeeper and press on the desired button. A number now replaces the text "PRESS" and by pressing the 🕑 this function is now added to the list of IR functions remembered by the Electronic Housekeeper, and listed at the left side.

Slideshow set-up

The slideshow is used when playing music. The Electronic Housekeeper has a default

slideshow, but you are able to add your own pictures instead. When pressing <a> the following screen appears:





Select Music by pressing

04.10.2012 13:16	• 👬 23°C 13°C 🛆	5	8 ? 5
SEQUENCE	random	0	Music
INTERVAL	10 sec	D	
EFFECT	none	D	
FOLDERS	Storage Card\electronichousekeeper\currentvers	Ð	
			SAVE

The screen shows the set-up of the current slideshow. By pressing \bigcirc you are able to add a new slideshow. Key in the full link like \\mycomputer\documents\pictures\vacation or just add another USB memory stick to the Electronic Housekeeper.

The pictures shown at the Electronic Housekeeper have to be fitted to the wide screen format of the Electronic Housekeeper. At our homepage you are able download a program that guides you how to modify the pictures.





The Electronic Housekeeper connects through the Internet using an Ethernet cable. The cable might be connected to a VLAN network using a Netgear WLAN bridge.

When using a cable directly to a router the \mathbf{Q} appears on the screen, as shown below:



By pressing **the Electronic Housekeeper first makes a connection to Google.com** and the to the Electronic Housekeeper server. If the connection is OK, then there is a "Google ping OK" followed by "Server connection OK".

However if the message is "Google ping failed" then you need to recheck the cabling. Also some Router settings require special settings, these are can be entered by pressing the

 \mathbf{O} , and the following screen appears:



Furthermore, experience from customer installation shows, that some routers requires the IP address to be renewed every hour, this might cause problems for the Electronic Housekeeper. Therefore, we recommend either to change the frequency to once per day or to give the Electronic Housekeeper a permanent IP address via the router settings.



"TGEAR

Using the Netgear Universial Wireless N Adapter, you follow these steps:

- 1. Connect the Netgear adapter to your computer via an Ethernet cable.
- 2. Open a browser and wait until the Netgear adapter login page appears
- 3. Log into the Netgear adapter
- 4. Connect to you VLAN network
- 5. Save the settings
- 6. Connect the Netgear adapter to your Electronic Housekeeper via the Ethernet cable and power the Netgear adapter via the USB power supply cable to the Electronic Housekeeper
- Repower the Electronic Housekeeper. Go to set-up, network and press
 TEST to see if the connection to the Electronic Housekeeper server is established.

For more information we kindly refer to the Netgear manual. Also you can follow this link on YouTube http://www.youtube.com/watch?v=Cgg8YgnmG7A&feature=related

O does not appear: Repower the Netgear adapter.

"Google ping failed" Sometimes it takes a while before the Netgear is ready for the

Electronic Housekeeper to use. Select **Q** and select **E** to reconnect to the Netgear adapter.





Getting the music from a network hard disc;

- Enable the music free to use for the Electronic Housekeeper.
- Add the library on your Electronic Housekeeper.

The Electronic Housekeeper needs free access to your music, and no user ID and password can be used.

How to make your music free to use for the Electronic Housekeeper:

• Find the music library on your PC or your network.

🚔 Dokumenter					- 7 🛛
Filer Rediger Vis Foretrukne Fu	inktioner Hjælp				A.
🔇 Tilbage 🔹 🕥 - 🎓 🔎	Søg 😥 Mapper				
Adresse 🛅 Dokumenter				💌 🄁 Gå	Norton AntiVirus 🔙 👻
	Navn 🔺 Størrelse	Туре	Ændret den		
Fil- og mappeopgaver 🛛 🔕	CACCESS Connections	Filmappe	31-07-2007 13:29		
Condeb denne manne	📇 Billeder	Filmappe	06-01-2008 17:31		
Elut deppe mappe	Mine eBooks	Filmappe	06-09-2007 21:33		
Pryc denne mappe	Musik 8t-	Eilmappe	15-02-2008 17:31		
Kopier denne mappe	My ADII	imappe	25-06-2007 10:04		
Udgiv denne mappe på World Wide Web	My Sen	ilmappe	20-08-2007 13:18		
2 Del denne manne	Egi til Windows Media Player-afspilpippsliste	Imappe	18-07-2007 14:21		
Send denne manner filer	Afspil med Windows Media Player	arbindeles til Sieve	03-02-2008 01:41		
med e-mail	de	opfigurationsindstil	10-07-2007 07:50		
🗙 Slet denne mappe	Deing og sikkerhed	icrosoft Word-dok	28-02-2008 15:44		
	Sp. Skan med Norton AntiVirus	licrosoft Excel-reg	04-02-2008 21:19		
Andre placeringer 🔹	Send til	•			
	Klin				
Ge Skrivebord	Konier				
Contraction Delte dokumenter	Saet ind				
Denne computer		-			
Setværkssteder	Opret genve)				
	Omdøb				
Detaljer 😵	Egenskaber				

• Right click on the library and select sharing and security. Depending on your Windows system the next pages may look like:

Egenskaber for Musik	Egenskaber for Musik
Generelt Deling	Generelt Deling Sikkerhed Webdeling Tilpas
Lokal deling og sikkerhed Hvis du kun vil dele mappen med brugere på denne computer, skal du trække den over i mappen <u>Delte</u> <u>dokumenter</u> .	Du kan dele denne mappe med andre brugere på netværket. Klik på Del denne mappe for at aktivere deling af mappen.
Hvis du vil gøre denne mappe og dens undermapper private, så kun du har adgang, skal du markere	Del denne mappe
følgende afkrydsningsfelt. Gør mappen privat	Sharenavn: Musik
- Netwark stelling og sik kerhed	Kommentar:
Hvis du vil dele denne mappe med både netværksbrugere og andre brugere på denne computer, skal du markere det første afkrydsningsfelt nedenfor og angive et sharenavn.	Bruger- begrænsning: O Det maksimalt tilladte antal Tillad dette antal brugere:
☑ Del denne mappe på netværket	Klik på Tilladelser for at angive, hvilke tilladelser brugere skal have til mappen via netværket
Sharenavn: Musik Tillad netværksbrugere at ændre mine filer	Klik på Cachelagring for at konfigurere Cachelagring offlineadgang
Lær mere om <u>deling og sikkerhed</u> . Windows Firewall vil blive konfigureret til at tillade denne mappe at blive delt med andre computere på netværket. <u>Vis indstillingerne for Windows Firewall</u>	Nyt share Windows Firewall er konfigureret til at tillade denne mappe at blive delt med andre computere på netværket. <u>Vis indstillingerne for Windows Firewall</u>
OK Annuller Anvend	OK Annuller Anvend



- Select "share this library on the network" or "share this library"
- Right click and select properties and security

She Development (C.)	Publican Inch						
nier keaiger vis höretrukne i	runkooner njælp						
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Adresse 🖼 🔿							🗸 🖪 cš
Cit.	Nem +	Steralca	Tuna	Endret den			
Systemopgayer 🛞	Navii –	Jurreise	Filmanne	18-02-2008	16-52		
	Config Msi Old		Filmappe	29-04-2007 :	21:01		
📷 Skjul dette drevs indhold			Filmanne	06-05-2007 1	20:56		
👸 Tilføj eller fjern	Documents and Settings		Filmappe	08-10-2007	14:30		
programmer	Downloads		Elmanne	29-02-2008	15:50		
🔑 Søg efter filer eller mapper			F	25 02 2000	500	7	
	Ebweb		rgenskaper for	MUSIK			
			Gonoral Daling	Sikkethed Wabdalia	a Tiloan		
rii- og mappeopgaver	1386		R R	, meddelli	g npur		
Omdøb denne mappe	Cons Cons		Gruppe- eller bru	ugemavne:			
Byt denne manne			F Administrat	torer (IBM03\Administrato	reri		
C Kaplay dappa mappa	Dinstall		60 Ale				
Copier derine mappe	🔁 Jan		F Brucere III	RM03\Revenue)			
World Wide Web	🚞 Keil						
27 Del deppe mappe	C MeterCam		F CHEATUR	OWNER			
Cand dama manner flor	📾 Musik		F Jan (IBMU	UNJanj			
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Detalier	C Program Files		R Redigering				
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	C RRbackups		E Læsning				
	🗀 SiLabs		F Skrivning				
	C SUPPORT		F Specielle tilla	delser			
	D SVErepository		F				
	SWSHARE		F Klik på Avancer	ret for at angive specielle	Avanceret		
	SWTOOLS		F unagelser eller a	vancerede indstillinger.			
	System Volume Information		F				
	SystemUpdate 🚞		F				
	C TEMP		F		Annuller Anvend		
	TestLoadscripts		Pamoppo	L101 2001 .			
	🗀 Tmp		Filmappe	11-10-2007	16:25		

Select all. Hereby, you open your music library for everybody on your network to play music from your library, but not editing your music.

How to add the music library to the Electronic Housekeeper:

• Right down the name of your computer by pressing start and right click on "this computer". Hereafter, the following screen will appear (in this case IBM03).



• On the Electronic Housekeeper you need to key in where the music is stored on your network. Select: "set-up", "media".

Now the following screen will appear:



03.10.2012 15:04	٠	¥	°C 14°C	▲ 、		6
MEDIA FOLDERS						
(Storage Card)media						
	E		ADD	•	ОК	

• Press and "add" and the following screen will appear:

									X						≙	5 🕺 ? 🤆
//	∖ibm	03\	m	usik	\roc	k										×
	1		2	~	3	4	5	6		7	8		9		0	
	a	w		E	R	т	z		υ	I		0		Ρ	Ü	\$
	A	s		D	F	G	н		J	к		L		Ö	Ä	
	!	?		Y	x	С	v		в	N		м		_	١	<u>۲</u>
	@	&		/	+		=									A
ŀ	企										C	¢		٢	\triangleright	ENTER

- The address has to be like "\\Computername\Directory" optionally with a name of a subdirectory. Example: \\ibm03\musik\rock
- Once added, then please check the library by pressing "Check path". Please notice that this function only checks the path, not if the music is free to use or not.

Necessary music structure of you library

The Electronic Housekeeper is able to play music from your library with the following file structure:

📸 Musik										
Filer Rediger Vis Foretrukne Fi	Filer Rediger Vis Foretrukne Funktioner Hjælp									
🌀 Tilbage 🝷 🕥 - 🎓	Søg 😥 Mapper									
Adresse 🚵 C:\Documents and Settings	Frans\Dokumenter\Musik			💙 ラ Gå 🛛 Norton AntiVirus 🔙 👻						
A	Navn 🔺	Størrelse Type	Ændret den	<u> </u>						
Musikopgaver	🚞 A Tribute to Joni Mitchell	Filmappe	02-12-2007 11:33							
	C Amy Winehouse	Filmappe	04-10-2007 11:16							
Afspil alle	🗀 Aretha Franklin	Filmappe	15-12-2007 22:46							
😔 Foretag onlineindkøb af 🔬	Ars Nova Størrelse: 59.0 MB	Filmappe	15-12-2007 20:24							
musik	Barbra Streisand Mapper: Back to Black	Filmappe	15-12-2007 20:48							
🕙 Kopier alle elementer til en	Beyoncé	Filmappe	04-10-2007 11:16							
iya-ca	Christmas Present from Motown Volum	Filmappe	02-12-2007 11:05							
	🚞 Claudio Abbado	Filmappe	15-12-2007 21:04							
Fil- og manneongaver 🔅	Defected in the House- Miami 2007 Disc 1	Filmappe	02-12-2007 09:46							
rii og mappeopgarei	🗀 Defected in the House- Miami 2007 Disc 2	Filmappe	02-12-2007 09:55							
🗾 💋 Opret en ny mappe	Defected in the House- Miami 2007 Disc 3	Filmappe	02-12-2007 10:01							
Del denne mappe	🛅 Destiny's Child	Filmappe	15-12-2007 20:03							
	🗁 Diana Krall	Filmanne	04-10-2007 11+17							

In order for the Electronic Housekeeper to display the cover of a CD, you need to store the cover pictures in JPEG or PNG with a maximum size of 200 x 200 pixels. Most of the media players today automatically find this information when copying a CD while being on the internet at the same time. You are also able to add these pictures later on.





The IP Phone set-up only applies for those Electronic Housekeeper packages including IP communication.

The basic settings are:

03.10.2012 15:04		٠	¥	°C 14°C		🏷 ? 🐬
						- 4
USER ID					2	X
USER NAME						T'T
PASSWORD	***					
PROXY SERVER					>	NoSettings
REGISTRAR SERV						ок

The information is provided by your IP phone supplier.




Date and time is automatically updated in the Electronic Housekeeper based on the time zone you are in. However, you are also able to manually to select date and time.



NB: If the time and date is years away from actual time and date, it is necessary manually to set time and date.

