
HomeVision® Lite

Control system for crawl space dehumidifier
CTR STD-TT and CTR 300TT2

USER MANUAL



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User Manual HomeVision® Lite

Intended use

HomeVision® Lite is developed and intended for wireless control and supervision of Corroventa CTR STD- TT and CTR 300TT2 crawl space dehumidifiers and it consists of a Control Unit and a Control Panel. Through use of the Control Panel mounted in the in the apparent the system can be monitored, and its settings adjusted.

Any detected disturbance to the operation is automatically presented as an alarm and so is the service reminder.

<ul style="list-style-type: none">• Control and supervision of crawl space climate, temperature, and relative humidity	<ul style="list-style-type: none">• Graphical display with an easy interface
<ul style="list-style-type: none">• Operation indicators and alarms	<ul style="list-style-type: none">• Easy to install – wireless Control Panel
<ul style="list-style-type: none">• Service reminders	

Manufacturing Directive

HomeVision® Lite is CE approved.

Waiver of Liability

- Faulty, incorrect installations and/or incorrect use can cause damage to property and human injury.
- The manufacturer assumes no responsibility or liability for damages or injuries caused by non-compliance with the instructions herein, use for other purposes than the intended, or failure to observe its warnings. Such damage, injuries or liabilities are not covered by the product warranty.
- The product warranty does not cover consumables or normal wear and tear.
- It is the responsibility of the buyer to inspect the product at time of delivery and before use to ensure its good function. The product warranty does not cover damage resulting from use of faulty products.
- Changes or modifications to the equipment must not be made without written consent by Corroventa Avfuktning AB.
- The product, technical data and/or installation and operation instructions can be changed without prior notice.
- This manual contains information that is protected by the Intellectual Property laws. No part of this manual may be copied, stored in an information system, or transferred in any form or in any way without the written consent of Corroventa Avfuktning AB.

Any comments on the contents of this document shall be sent or addressed to:

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Safety Information

This equipment is not intended to be used by individuals with physical or mental disabilities impeding their operation or understanding of it or by individuals lacking required knowledge or experience unless they are supervised and instructed by another person with responsibility for their safety.

Children must only use this equipment under supervision of an adult to ensure that it is not used as a toy, something that it is not designed for.

Electrical installations made in connection with the installation of the dehumidifier or the HomeVision[®] shall be made by authorized personnel in accordance with local and national regulations.

1. Read and observe the Safety Information in the user manual of the dehumidifier that is to be installed and/or used.
2. Incorrect settings in HomeVision[®] can result in damage to property and/or the equipment as well as too high energy consumption.
3. The Control Unit is connected to the dehumidifier with its cable and is mounted in the crawls space at approximately half the height in such a way that it is not affected by:
 - a. The dry air from the dehumidifier.
 - b. The wet air from the dehumidifier.
 - c. Radiation from surfaces warmer than ambient air.
 - d. Radiation from surfaces colder than ambient air.
4. Place and mount the Control Panel:
 - a. In hallway or similar space where it is often passed and seen so that any appearing alarm is spotted shortly.
 - b. Beyond the reach of small children to avoid unintentional changes to system settings.
5. As the Control Panel is intended to be continuously powered through included AC/DC adapter, do not leave batteries in the Control Panel as many makes and types tend to leak as they age.
6. To use electrical equipment in a very humid or wet environment can be dangerous. Do not use or operate the dehumidifier if it, or its Control Unit are in water.
7. Water must not encounter or reach the electrical components of the dehumidifier or the HomeVision[®]. If this still happens, make sure they are dry before the system is powered and used again.
8. It is recommended that the power socket used to supply the dehumidifier is protected through a residual current device / ground fault circuit interrupter.
9. Be careful not to damage the cables. They must not be submerged in water or pass sharp edges.
10. HomeVision[®] must not be used with any other accessories than those presented in this manual or that are explicitly approved by Corroventa Avfuktning AB.

For further advice on product safety and use, please contact the supplier.

Relative humidity and its effect on substances

All air contains more or less moisture, but the naked eye cannot see it until it condensates in small droplets on for instance a metal or glass surface. Already before it is visible however, the moisture affects substances and production processes, causes corrosion and microorganism growth. In the Nordic climate, one must always count on ambient humidity due to the large water surfaces of the many thousands of lakes and of the surrounding sea.

Air humidity is measured and referred to in terms of relative humidity (%RH) which is a measure how much water it contains relative how much it can contain at given temperature. The higher the temperature, the more water the air can contain but it is still the Relative Humidity that counts and that needs to be controlled.

At RH 100% the air is saturated – there is fog and the moisture condensates in small droplets.

Already at RH 60% steel corrodes and at 70% there is a risk for mould growth. As a rule of thumb, RH 50% is a good climate for most substances but in the Nordic countries the humidity is rarely that low. The yearly average for most places is closer to 80% and it can be as high both summer and winter.

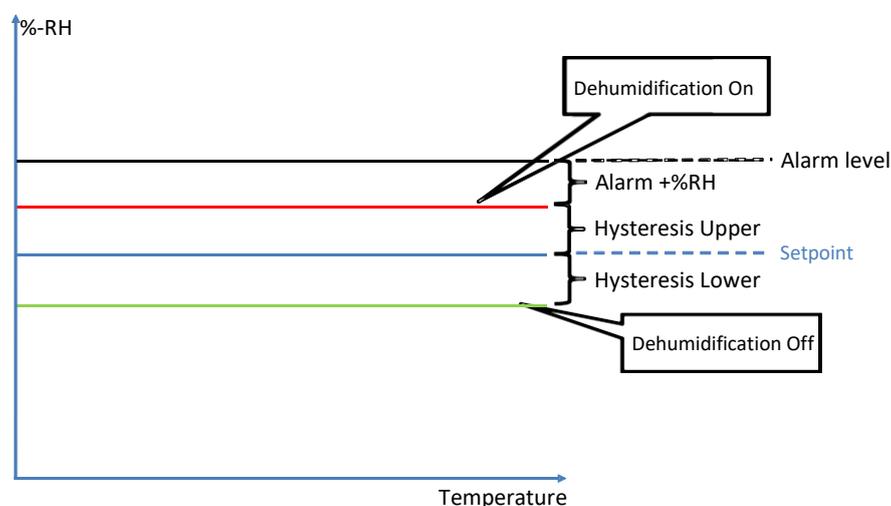
Control of crawl space humidity

When a dehumidifier is installed in the crawl space in accordance with instructions in manual, vents, cracks and other openings are sealed and the ground is covered with non-aging plastic foil, all prerequisites are there for achieving and sustaining a good climate where rot, mould and bad smell are prevented. As an extra prevention, downpipes that end by the foundation wall should be modified so that the water lead away from the building and do not leak into the crawl space.

HomeVision® with its wireless Control Panel offers easy and convenient monitoring of the crawls space environment and allows the user to set desired operating parameters for Fixed RH control and, for Pro also Mould Growth Index RH control.

Fixed RH control

With RH control a setpoint is selected, a relative humidity one wants the system to use as basis for its dehumidification. Furthermore, one defines an upper and a lower hysteresis as well as an alarm limit, the latter defining an alarm level at which, should it ever be reached, an automatic alert is triggered on the Control Panel. The diagram is not to scale but only intended as an illustration of the principle presented and its different parameters.



To further facilitate the understanding of the principal, the example below presents all the parameters and explains how they are applied.

Setpoint, %RH:	65%	}	Activation: Setpoint + Hysteresis Upper = 65% + 4% = 69%
Hysteresis Upper/Lower:	+ 4%, -4%		Deactivation: Setpoint +Hysteresis Lower = 65% - 4% = 61%
Alarm, +%RH:	10%		Added to the activation level to give the Alarm Level.
			Alarm Level = Setpoint + Hysteresis Upper + Alarm = 65% + 4% + 10 % = 79%

As can be seen from the example above, the setpoint shall not be, or confused with, a maximum level as it is exceeded with Hysteresis Upper before the dehumidifier is even activated. At times of high moisture load, the relative humidity can climb even further before it starts declining.

Consequently, the setpoint is, if not perfectly correct, more to be seen as an upper limit for the average relative humidity and therefore **there must always be a margin bigger than the Hysteresis Upper between the setpoint and the level at which damage arises.**

The reason for HomeVision® allowing the user to set the hysteresis is to allow for each installation to be optimized. A too narrow span results in many starts and stops of the dehumidifier with increased wear on the equipment. A too wide span normally results in the system drying the crawls space to unnecessarily low levels which consumes more energy than necessary.

Delivery inspection

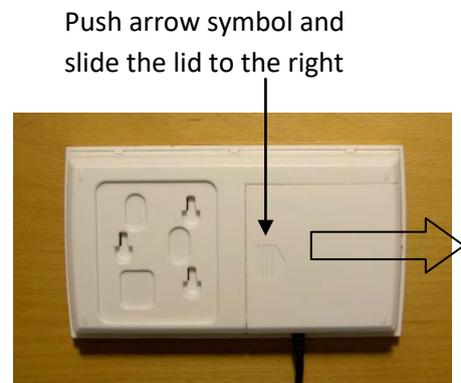
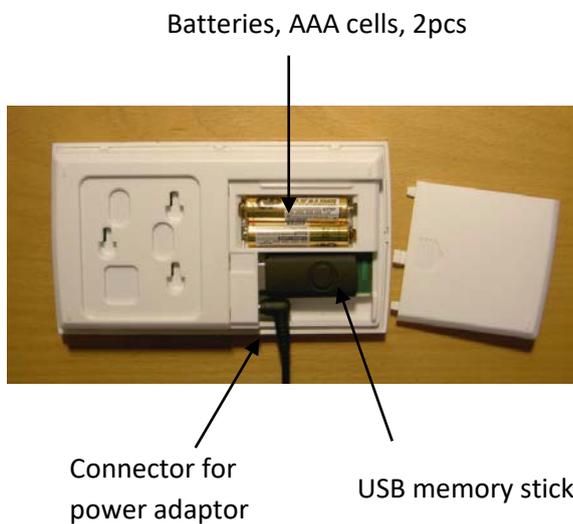
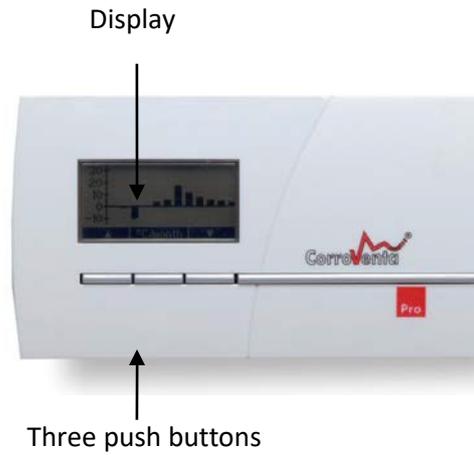
HomeVision[®] is delivered with the following items included:

Control Unit with cable connection to CTR STD-TT or CTR 300TT2 dehumidifier	1 pc
Control Panel with USB memory stick	1 pc
Power adaptor for Control Panel	1 pc
Batteries for Control Panel, AAA cells	2 pcs
User Manual	1 pc

**) Please note that the batteries are already mounted in the Control Panel. To use them, the isolating piece of plastic between the battery pole and the contact spring must be removed. The batteries are intended for use during installation of the equipment. For normal use, the Control Panel shall be powered through the power adaptor.*

Product Overview

Control Panel



Control Unit

Control unit is mounted with sensor downwards.



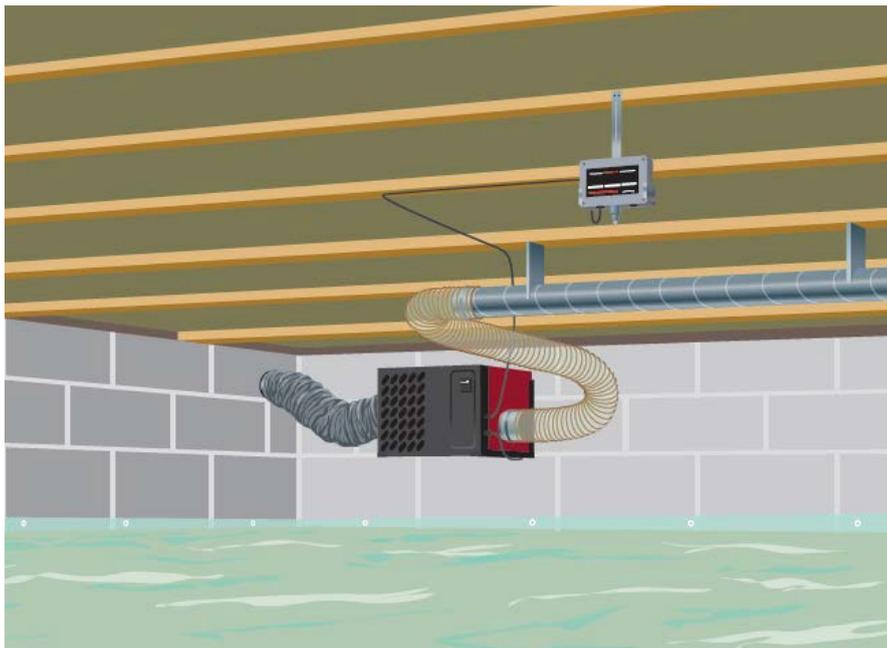
Installation

Installation of Control Unit and connection of Control Panel

When installing the Control Unit, prepare the Control Panel by removing the battery protection and bring it to the crawl space.

1. Mount the Control Unit where its cable can reach the dehumidifier and where its measurements of temperature and relative humidity will be representative of the ambient crawl space environment, securing that:
 - The unit is at approximately half the height of the crawl space.
 - The unit is not directly affected by the dry air from the dehumidifier.
 - The unit is not directly affected by the wet air from the dehumidifier.
 - The unit is not affected by radiation from heat sources/surfaces hotter than ambient air.
 - The unit is not affected by radiation from surfaces colder than ambient air.

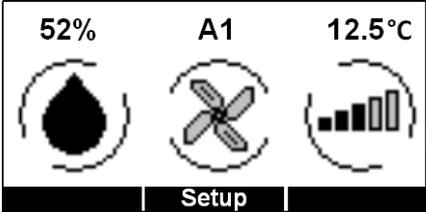
The Control Unit is mounted in bracket **with the sensor downwards**. The bracket is preferably fixed as depicted below.



2. Connect the Control Unit cable to the dehumidifier.

3. Connect the Control Panel to its power adaptor and then connect that to mains power.
Continue in accordance with below instructions:

<p>If the Control Panel does not already have one or several Control Units connected, its screen will look as the in the picture to the right. Push OK to continue.</p>	<p>No unit is currently connected. Push OK to continue.</p> <p style="text-align: center;">OK</p>
<p>For normal connection, intended for continuous use, select Standard which is marked as default. För normal anslutning, välj Standard vilket är markerat. Push OK to continue.</p>	<p>Select pairing type: Standard</p> <p style="text-align: center;">Escape OK ▼</p>
<p>The user is now reminded that the Control Unit is open to connection during only two minutes after power-up. Restart it if necessary and the push Continue.</p>	<p>Control Unit open to pairing for two minutes after start. If necessary, restart it and then push Continue.</p> <p style="text-align: center;">Continue</p>
<p>The Control Panel now searches for and identifies Control Units available for connection. Wait for this process to finish which is to be expected within 30 to 40 seconds. If the process should take considerably longer, restart the Control Unit and try again.</p>	<p>Identifying available control units ...</p> <p style="text-align: center;">■</p> <p style="text-align: center;">Escape</p>
<p>When the process is finished, identified Control Units are presented. If there are several units on the list, select by verifying what identity is found on the backside of appropriate Control Unit. Step to this unit in the list with use of arrow button and then push OK.</p>	<p>Select unit to connect: -- 1234567891 HomeVision</p> <p style="text-align: center;">Escape OK</p>

<p>While the Control Panel executes the connection order it presents the screen presented to the right. Wait for it to finish.</p>	<p>Attempting to pair up</p> 
<p>When the connection process is finished, normally the Control Panel displays the result as in the upper picture to the right. The connected unit is given an identity consisting of capital letter A1.</p> <p><i>If the process should fail, likely cause of which would be that more than two minutes had passed or that there were disturbances in the communication, the Control Panel displays the screen depicted to the lower right. If this should happen, follow the instruction, and restart the Control Unit before the process is reinitiated.</i></p>	<p>Pairing successful</p> <p>New unit named: A1</p>  <p>Pairing failed. Restart Control Unit intended for pairing before retry.</p> 
<p>When pairing is successful, push <OK> to continue to default, status view which looks like the picture to the right. At the top center the name of the current machine is presented, in the example A1.</p>	

In order not to forget it, set correct time and date in the system immediately after connection of the first unit so that the statistics and the logs will be created correctly.

In the default, status view, push <Setup> to get to the Administration view where Date/Time is found on the first row.

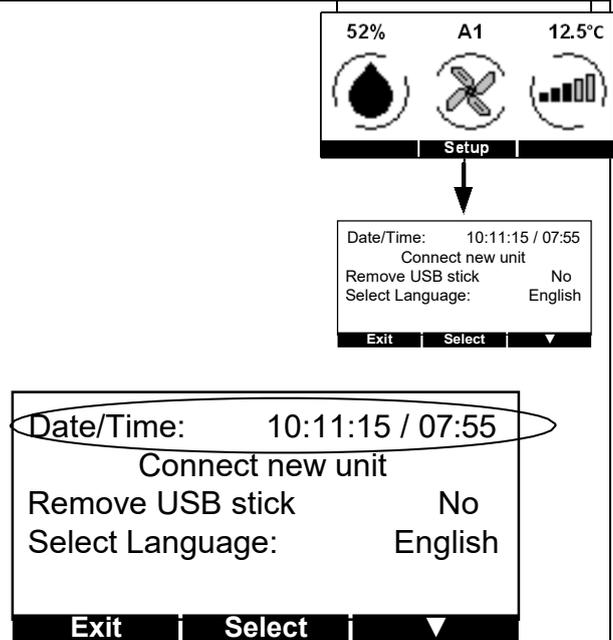
Push <Select> and the Date/Time row will be highlighted.

Push <OK> to select this function.

Note: The date is presented in sequence YY – MM- DD.

The first figure, the year, is now highlighted. Use arrow buttons, <▲> and <▼>, to get to correct value and then push <Next> to continue with the editing.

When the last figure is edited, the minutes, the center button is labeled <Save>. When correct value is displayed, push <Save> and the setting of time and date is completed.



Installation of Control Panel

When the Control Unit is installed and radio connection between that and the Control Panel is established, proceed as follows:

1. Select position for the Control Panel where there is power outlet within reach of the power adaptor cable and preferably where any alarm would be noticed as soon as possible (the screen back light starts to flash when alarms are presented). Furthermore, if there are small children in the household, the Control Panel should be placed beyond their reach.

Put the Control Panel at the intended position and leave it there for a couple of minutes to let the signal quality indication reflect current conditions. Verify that at the indication is at level two or higher.

2. Detach the wall bracket from the Control Panel by pushing it downwards. Hold the bracket to the wall at the intended position and mark the position of the three holes to be drilled. Drill the holes and insert the wall plugs. Fix the bracket to the wall using the three screws.
3. Remove the batteries from the Control Panel and connect the power adaptor. (The Control Panel, if correctly paired, will automatically reconnect the Control Unit after power down.)
4. Mount the Control Panel on the wall bracket by holding it over the bracket and pulling it downwards. Connect the power adaptor to the power outlet.

Default view

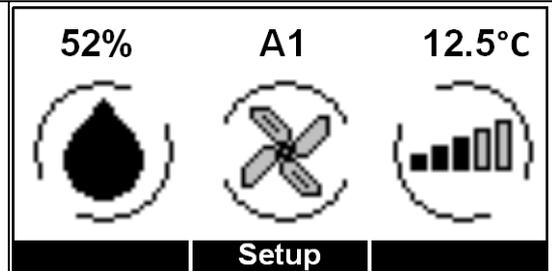
Default view

In the default view, current crawl space relative humidity and temperature are presented. The user can also read whether dehumidification is currently ongoing and whether the fan is active or not. The far-right symbol with the bars presents radio communication quality.

The indications in the lower part of the screen show, from left:

- Dehumidification, if the dehumidifier is currently active or not. When active, the water level in the droplet is moving and the outer circle rotating.
- Fan – if the fan is currently active or not. When active the fan wheel and the outer circle are both rotating.
- Signal quality, how good the connection with the Control Unit is. The higher the indication, the better quality. When connection is lost, the entire symbol flashes.

Please note that the signal quality reflects how many data packages are correctly received in their first transmission. The level normally builds up over time and may then vary slightly. Standard paired systems automatically reconnect after power reset. When the Control Unit has been powered down it takes approximately three minutes for the system to reestablish communication.



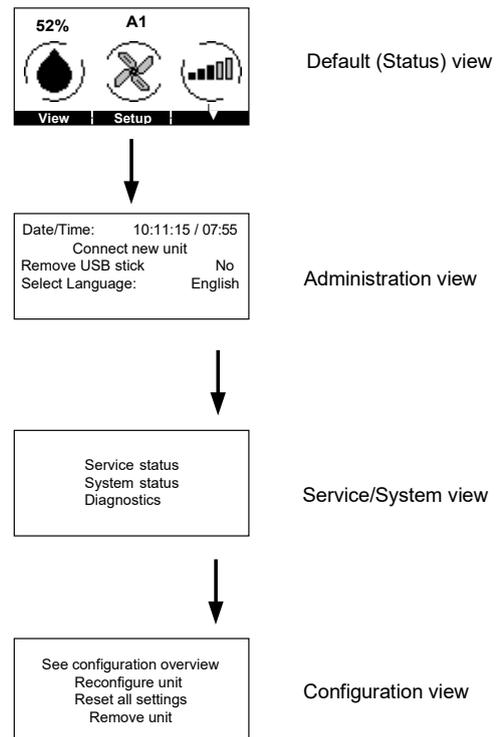
Setup

With center button <Setup> in the default view, all setup and configuration available with the system are accessed.

The first level of this menu tree is called **Administration** and allows for setting and adjustment of system time and date, connection of further Control Units, removal of USB memory stick as well as selection of preferred Control Panel language.

A first and single push of <▼> from Administration will access the second level of the menu tree called **Service/System** and has functions to view and reset the service time, to see the system status and in the form of which units are connected and their status as well as diagnostics, functions intended to assist in function checking and troubleshooting.

A second push of <▼> will access the third and final level of the main menu tree called **Configuration**. In this view, the user can see a summary of all the unit settings and, change the settings in the control unit different units, reset the unit number to its factory configuration and also remove the control unit units from the system.



Set time and date

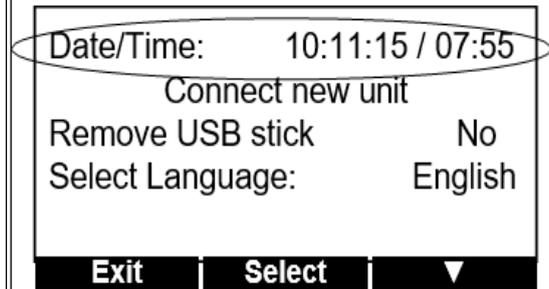
In the default, status view, push <Setup> to get to the Administration view where Date/Time is found on the first row.

Push <Select> and the Date/Time row will be highlighted.

Push <OK> to select this function.

Note: The date is presented in sequence YY – MM- DD. The first figure, the year, is now highlighted. Use arrow buttons, <▲> and <▼>, to get to correct value and then push <Next> to continue with the editing.

When the last figure is edited, the minutes, the center button is labeled <Save>. When correct value is displayed, push <Save> and the setting of time and date is completed.



Remove USB Memory stick

Please note that this function shall be used at all times when the USB stick is to be removed from the Control Panel as it stops the writing to the memory and thus prevents damage to the memory stick itself as well as to the log files stored on it.

The log file cannot be read by the user but is only used if required by the manufacturer in connection with any warranty repair or repair.

In the default, status, view push <Setup> to get to the Administration view where the "Remove USB stick" function is found.

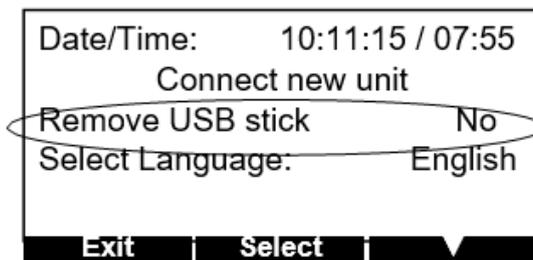
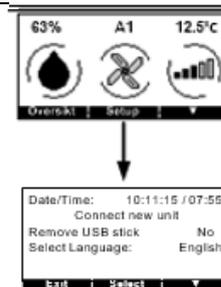
Push <Select> which highlights the first row, the Date/Time. Using the down arrow, <▼>. step down to "Remove USB stick". Push <OK>.

Use either <▲> or <▼> to toggle the alternative from "No" to "Yes".

Push <Save> and wait until the choice is confirmed and a screen with the text "The USB stick can now be safely removed" is presented..

Remove the Control Panel from its wall bracket, remove the battery lid by sliding it outwards and then remove the USB stick.

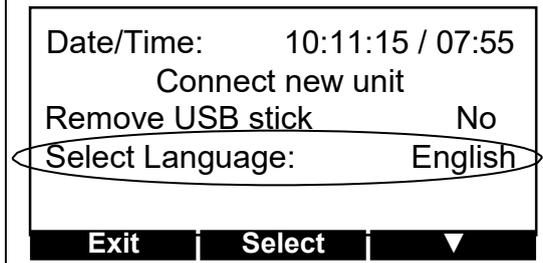
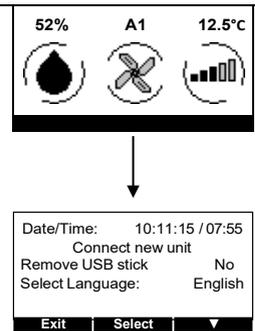
Remember to put the USB stick back into the Control Panel as soon as possible so that no, or at least minimum, log data is lost.



Select language

In the default, status, view push <Setup> to get to the Administration view where the "Select language" function is found.

Push <Select> which highlights the first row, the Date/Time. Using the down arrow, <▼>. step down to "Select language". Push <Save> and the selection is now made and stored.



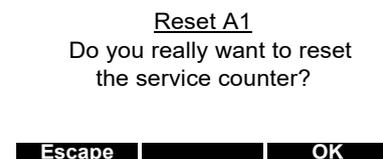
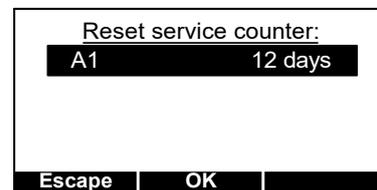
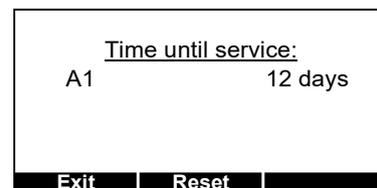
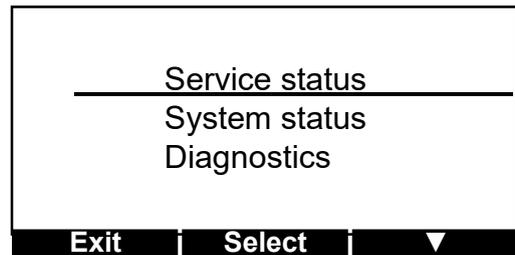
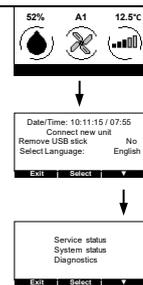
Service status – Reset service counter

In the default, status, view push <Setup> and then <▼> to get to the Service/System view where “Service status” function is found.

In this view, push <Select> which highlights the first row, Service status. Push <OK> to select this function.

When service has been undertaken and the counter should be reset, push <Reset>, use <▼> to step to correct unit and push <OK>.

To prevent unintended resets, the system asks the user to confirm his intent to reset. Push <OK> if everything is in order and almost immediately the system presents a screen saying that the saved change has been stored. If this confirmation is not presented, do the reset again.



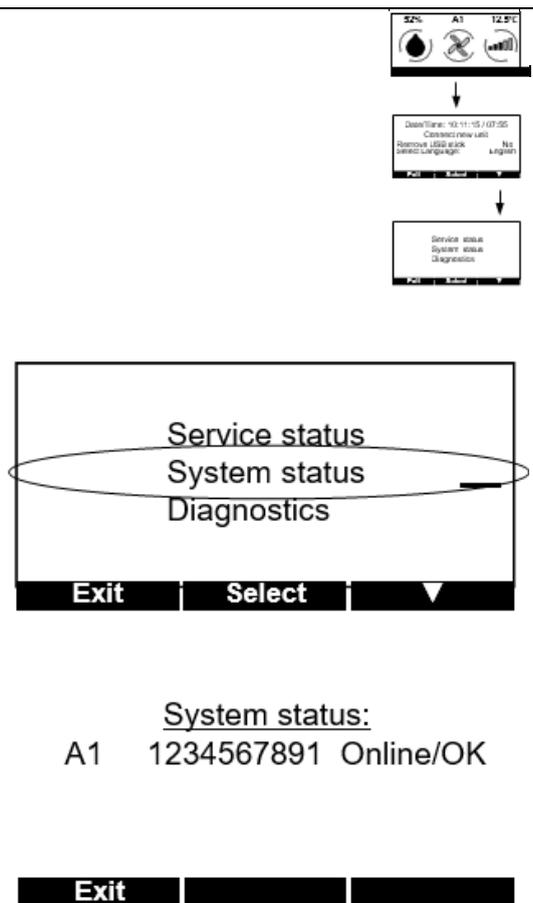
System status

In the default, status, view push <Setup> and then <▼> to get to the Service/System view where “System status” function is found.

In this view, push <Select> which highlights the first row, Service status. Use to <▼> to step down to “System status” and push <OK>.

The system now presents the serial number of the control unit as well as whether it is presently a list of the connected devices, their respective serial numbers, whether they are present at any given moment, whether the radio connection is working, and whether it is reporting any alarm or if everything is in order.

As all detected alarms are automatically presented, the user does not normally have to access this menu.



Diagnosics – Radio connection test

In the default, status, view push <Setup> and then <▼> to get to the Service/System view where the “Diagnosics” is found.

In this view, push <Select> which highlights the first row, Service status. Use to <▼> to step down to “Diagnosics” and push <OK>.

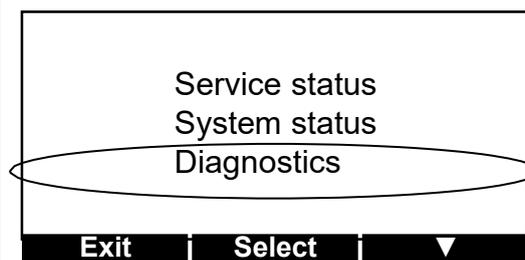
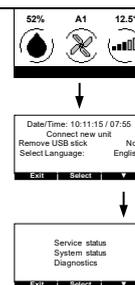
Select unit for test using <▼>. Push <OK>.

Select the already highlighted “Radio connection test” by pushing <OK>.

The test is now initiated and will continue for ten minutes unless the user stops it before.

The intent of this test is to allow the user to, for instance, evaluate what Control Panel positions are possible to use by verifying whether the Control Unit is within reach.

While using this test, observe that the system presents signal quality, a statistical calculation reflecting how many of the data packages sent are correctly received and confirmed the first time they are sent, not requiring any repetitions. This means that changes to presented quality, both positive and negative, are rather slow and somewhat delayed. It is not to be compared with the signal strength presented by a cellular phone which is a value that can change very rapidly, both up and down.



Select unit for diagnostics:

A1 1234567891 HomeVision

Escape

OK

Diagnostics: A1

Radio connection test

Dehumidifier test

Escape

Select

Testing A1

Unit radio quality:

100% - Good

Time left: 10 min

Exit

Diagnostics – Dehumidifier test

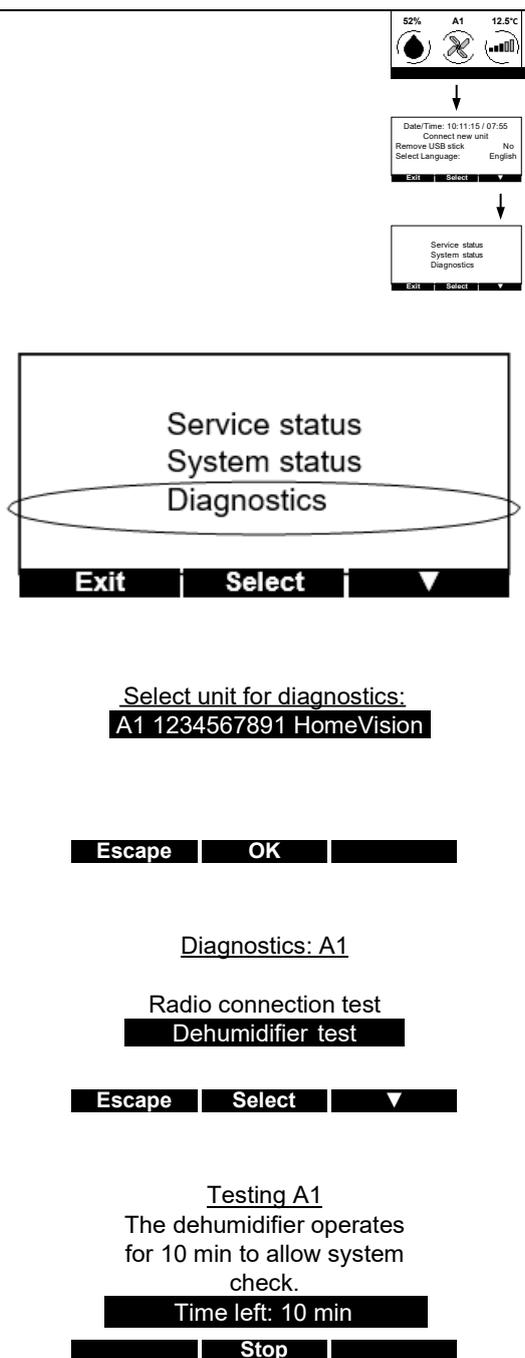
In the default, status, view push <Setup> and then <▼> to get to the Service/System view where the “Diagnostics” is found.

In this view, push <Select> which highlights the first row, Service status. Use to <▼> to step down to “Diagnostics” and push <OK>.

Select unit for test using <▼>. Push <OK>.

Step down to “Dehumidifier test” using <▼> and then push <OK>.

The test is now initiated which means that, regardless of current crawl space climate and current settings, the dehumidifier is now active and its fan operating. The user can thus easily verify that the fan is functioning, that the air is moving as it should and that the wet air leaving through the wet air hose feels warm – all good indicators of the system functioning as intended.



The screenshots show the following steps:

- Top Screenshot:** Shows the main status screen with a top bar displaying 62% humidity, A1 unit, and 12.5°C temperature. Below are three menu items: "Service status", "System status", and "Diagnostics". The "Diagnostics" option is circled in red.
- Second Screenshot:** Shows a submenu with "Service status" selected. Below it are "System status" and "Diagnostics".
- Third Screenshot:** Shows the "Diagnostics" screen with the text "Select unit for diagnostics:" and "A1 1234567891 HomeVision" below it. At the bottom are "Escape", "OK", and a right arrow button.
- Fourth Screenshot:** Shows the "Diagnostics: A1" screen with "Radio connection test" and "Dehumidifier test" options. At the bottom are "Escape", "Select", and a right arrow button.
- Fifth Screenshot:** Shows the "Testing A1" screen with the text "The dehumidifier operates for 10 min to allow system check." and "Time left: 10 min" below it. At the bottom are "Escape", "Stop", and a right arrow button.

Reconfigure unit

In the default, status, view push <Setup> and then <▼> twice to get to the Configuration view where the “Reconfigure unit” is found.

In this view, push <Select> which highlights the first row. Push <▼> to step down to “Reconfigure unit” and push <OK>.

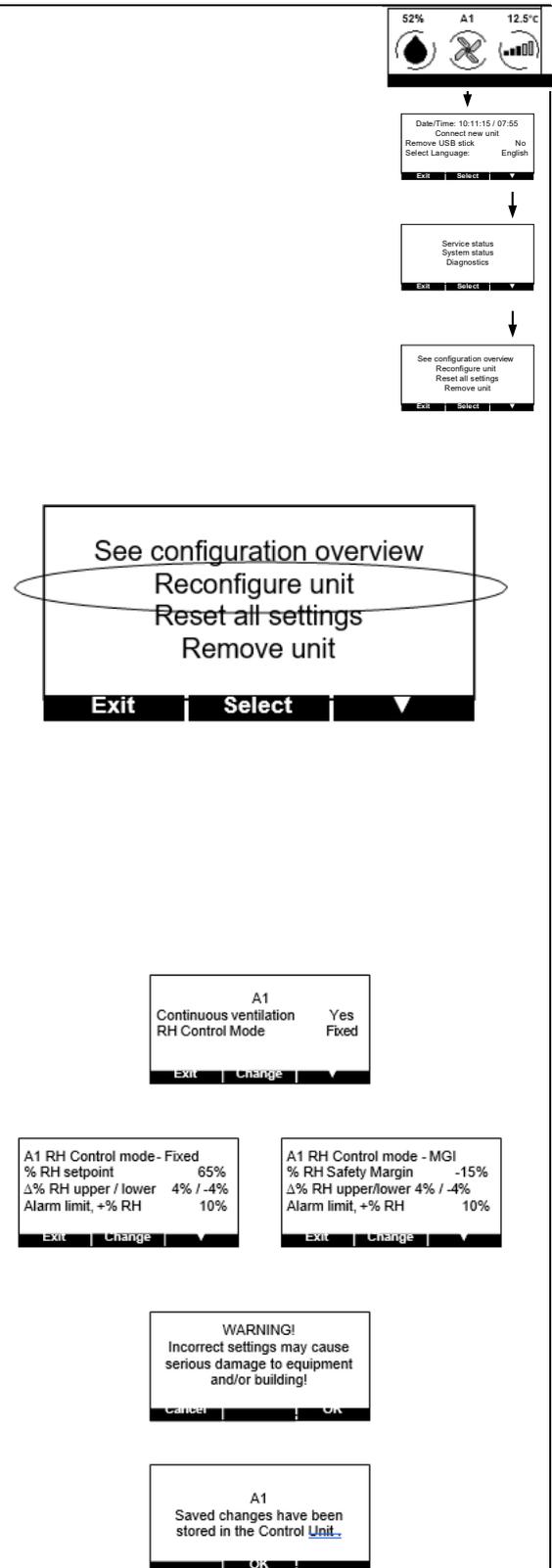
The Control Panel now asks the user to select what unit to configure. Push <OK> to continue.

The first screen presents the settings for continuous fan and for the control method and these cannot be changed.

From the first screen, <▼> leads to the next screen, presenting current parameters. To adjust parameters, first press Select and the system will present a warning text so that the user does not inadvertently change anything.

When a change has been made to the configuration, the system almost immediately presents a confirmation screen informing on the fact that the changes have been stored in the Control Unit. If this confirmation is not presented, go back to the same screen and observe what data is presented. If it is still the old data and not the new, do the change again.

If in doubt as to whether the change was accepted and stored or if it was correctly done, use the “See configuration overview” to see what data is currently used.



Reset all settings

In the default, status, view push <Setup> and then <▼> twice to get to the Configuration view where the “Reset all settings” is found.

In this view, push <Select> which highlights the first row. Push <▼> to step down to “Reset all settings” and push <OK>.

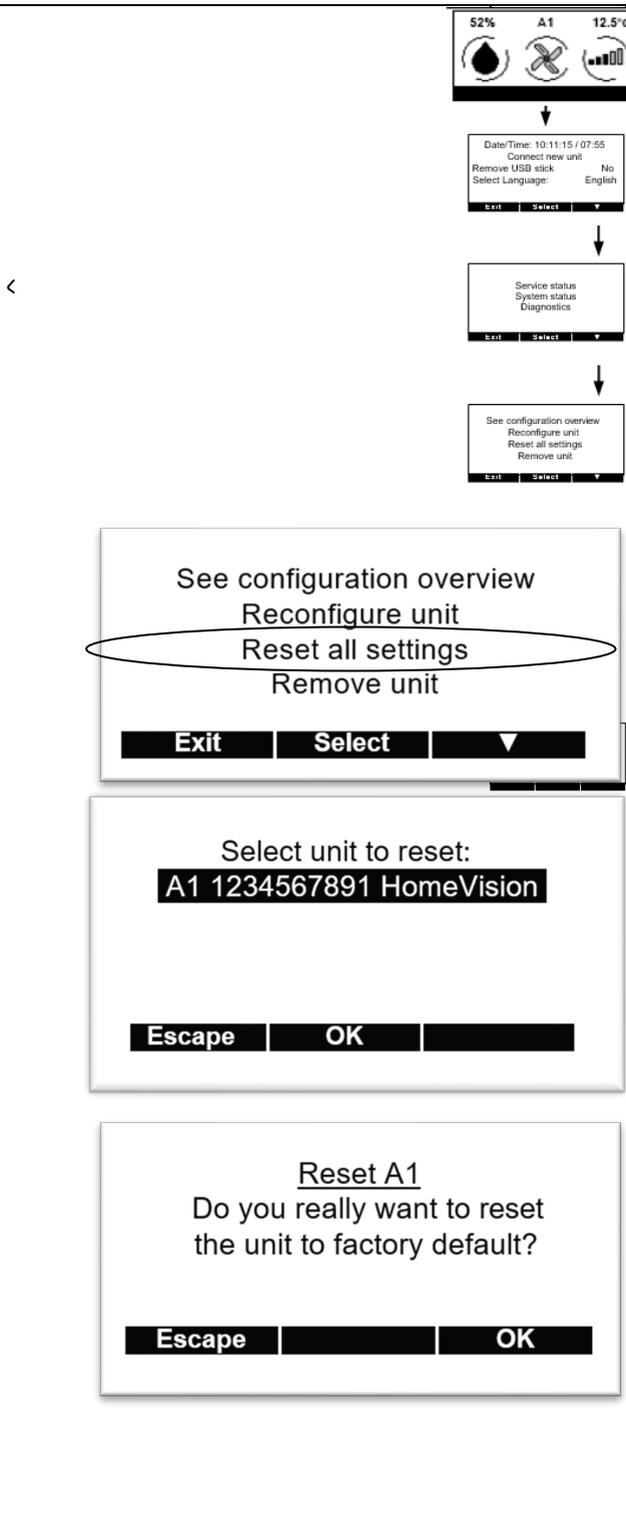
The Control Panel now asks the user to select unit to reset. Push <OK> to continue.

To avoid unintentional resets, the user is asked to confirm his intent to reset the unit. If in order, push <OK>.

If everything is in order, almost immediately the user is presented with a confirmation that the changes have been stored.

Reset to factory default means that the unit applies set point RH 65% and hysteresis +/- 4%. The alarm level is set to 10% which means that the alarm for high humidity is triggered at RH 79%.

If in doubt as to whether the change was accepted and stored or if it was correctly done, use the “See configuration overview” to see what data is currently used.



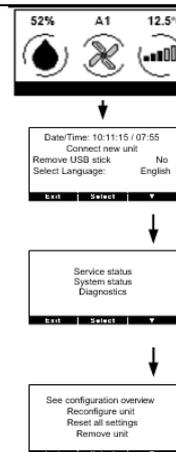
Remove unit

In the default, status, view push <Setup> and then <▼> twice to get to the Configuration view where the "Remove unit" is found.

In this view, push <Select> which highlights the first row. Push <▼> to step down to "Remove unit" and push <OK>.

To avoid unintentional removals, the user is asked to confirm his intent to remove the unit. If in order, push <OK>.

The unit is now deleted from the system. Its data will no longer be presented and nothing from this unit will be logged. Its alarms will not be presented either. The Control Unit itself however, unless unplugged, will continue to operate the dehumidifier in accordance with its latest settings.



See configuration overview
 Reconfigure unit
 Reset all settings
 Remove unit



Select unit to remove:

A1 1234567891 Online/OK



Remove A1

Do you really want to remove the unit from the system?



Alarms and service reminders,

In HomeVision® Lite there are several automatic alarms and reminders implemented intended to alert the user to any disruptions or system failures and to remind of service needs.

For all these alarms and reminders, except for the Log warning, the <Next> button leads to a confirmation screen depicted below to the right. When <OK> is pushed, the confirmation is logged with date and time which is a support for service technicians in any subsequent trouble shooting.

Below the picture is a table with further explanations of the screens.

ALARM 1	<p>A1: ALARM 1 The dehumidifier temporarily overheated. Change the filter or if it's done, follow manual.</p>	
ALARM 2	<p>A1: ALARM 2 The dehumidifier had an unexpected failure and needs repair. Please contact your retailer.</p>	
ALARM 3	<p>A1: ALARM 3 Humidity has exceeded alarm level. Please check the system according to manual.</p>	
ALARM 4	<p>A1: ALARM 4 The Control Unit had an unexpected failure and needs repair. Please contact your retailer.</p>	<p>PLEASE CONFIRM that corrective actions have been taken according to manual. Confirmation is logged.</p>
ALARM 5	<p>A1: ALARM 5 Control Unit connection lost. Please check the system according to manual.</p>	
SERVICE REMINDER	<p>A1: Time for service. Please follow instructions in manual.</p>	
LOG WARNING	<p>No events are logged. USB stick is either full or malfunctioning. Press OK to eject USB stick.</p>	

Alarm	Explanation
ALARM 1	<p>The dehumidifier's automatic overheating protection has temporarily stopped the system. The dehumidifier restarts as soon as the temperature has sunk but to prevent this from happening again it should be attended to in accordance with its manual. A likely cause of the incident is, as the text says, that the filter is clogged and needs to be replaced. When the corrective measures have been taken, confirm them by pushing <OK>. The alarm will then disappear, and a log post is created.</p> <p>If the problems remain after these measures, please contact your retailer.</p>
LARM 2	<p>Like the text says, the dehumidifier has failed and needs to be repaired by professional service technician. The dehumidifier does no longer function. Please contact your retailer as soon as possible.</p>
LARM 3	<p>The relative humidity is, or has temporarily been, above the alarm level. As a first measure, verify that the alarm level setting is relevant, that the humidity is indeed a problem. Thereafter, use the dehumidifier manual to locate the error. Confirm corrective actions performed by pushing <OK>. The alarm will then disappear, and a log post is created.</p>
LARM 4	<p>Like the text says, the Control Unit has failed and needs to be repaired by professional service technician. The dehumidifier and its built-in fan are now running continuously to prevent damage on the property. As continuous dehumidification means significantly higher energy consumption, please contact your retailer as soon as possible.</p>
LARM 5	<p>This alarm is activated when the Control Panel has not heard radio traffic from the Control Unit for sixty minutes. If the connection is reestablished, the alarm disappears automatically.</p> <p>As a first measure, verify that the dehumidifier is powered so that power loss is not the reason for the alarm. If the problem remains, restart the dehumidifier by disconnecting and then reconnecting power and pair the Control Panel again according to the installation procedure of this manual.</p> <p>If the problem remains, contact your retailer.</p>
SERVICE	<p>The system presents this service reminder once every year. Follow the instructions in the dehumidifier manual.</p> <p>When the service is confirmed by pushing <OK>, the built-in timer is automatically reset, and the reminder will not reappear until after one year. A log post is created and stored.</p>
LOGGNINGS-VARNING	<p>This screen is presented if there is a problem with the logging to the USB stick. The problem can be that there is no memory available or that the USB stick itself has failed. To isolate the problem, if possible, please try another USB stick formatted to FAT32 to see if that eliminates the issue. If not possible or if the problem remains, please contact your retailer.</p>

Service and maintenance

HomeVision® requires neither periodic service nor any maintenance.

The battery power option of the Control Panel is intended for use only during the installation. As soon as this is finished, the Control Panel should be powered by the included power adaptor and the batteries should then be removed as many makes and types have a tendency to leak as they age. The leakage from the batteries can cause the electronics of the HomeVision® to fail.

If the batteries still, for any reason, needs to be replaced they shall be 1.5V AAA cells. Two such batteries are required.

Fault finding

Note: The alarms and the warnings of the system are presented in previous chapter, including instructions on how to address them. Many of them require the dehumidifier manual.

Symptom	Probable cause	Measure
<p>The Control Panel does not work. The display does not show anything</p>	<p>If batteries are used, these might be empty.</p> <p>The power adaptor is not connected or broken.</p>	<p>Replace batteries.</p> <p>Verify that the power adaptor is connected to the power outlet and that there is power in the outlet (connect another consumer to the outlet such as a lamp or a radio)</p> <p>Verify that the power connector cable is correctly positioned in the Control Panel.</p> <p>If the problem remains, insert batteries (1.5V AAA cells) in the Control Panel. If this works, the power adaptor is broken and needs to be replaced.</p> <p>If none of the above works, the Control Panel itself is probably out of order. Please contact your retailer.</p>

Technical data

Control Unit	
Voltage (powered by dehumidifier)	24 VDC
Protection class	IP 44
Length x Width x Height (mm)	180 x 110 x 63 mm
Control Panel	
Battery operation or via power adaptor	
Battery type	AAA cell, 1,5 Volts
Power adaptor: Connection, Primary	240 VAC / 50Hz
Secondary voltage and max current	5 VDC, 800 mA
USB interface for memory stick	Delivered with 1GB memory stick
Length x Width x Height (mm)	150x85x25 mm
Radio Frequency	868 MHz