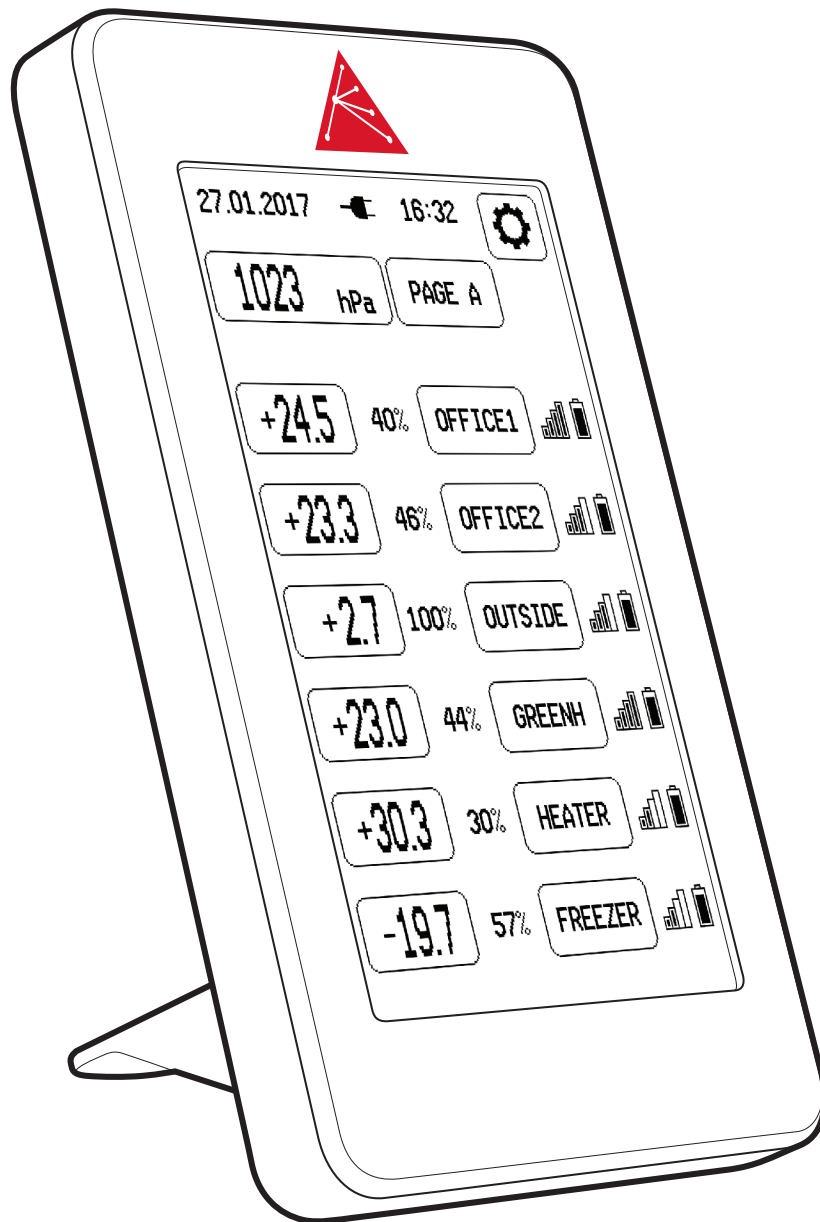


USERS GUIDE



Aranet MINI User's Guide

FCC Compliance statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the device.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from the one the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Aranet MINI does not contain serviceable parts. Warranty will not be applicable in the event Aranet MINI has been opened.

The information presented in this guide is the property of SAF Tehnika, JSC. No part of this document may be reproduced or transmitted without proper permission from SAF Tehnika, JSC.

The specifications or information contained in this document are subject to change without notice due to continuing introduction of design improvements. If there is any conflict between this document and compliance statements, the latter will supersede this document.

SAF Tehnika, JSC has no liability for typing errors in this document or damages of any kind that result from the use of this document.

To get up to date information about accessories and their availability, please contact sales representative.

Copyright Notice

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Industry Canada Regulatory Statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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INTRODUCTION

Aranet offers environmental monitoring solutions for a variety of businesses.

The base station has exceptional sensitivity of -129dBm and allows placing sensors within line - of - sight range of at least 3km/1.9mi.

All Aranet MINI base stations come with preinstalled software that allows for viewing of data in real time, set thresholds for alarms as well as exporting data for further analysis. Simple UI/UX design of the software in combination with resistive touchscreen enables easy navigation even with gloves on.

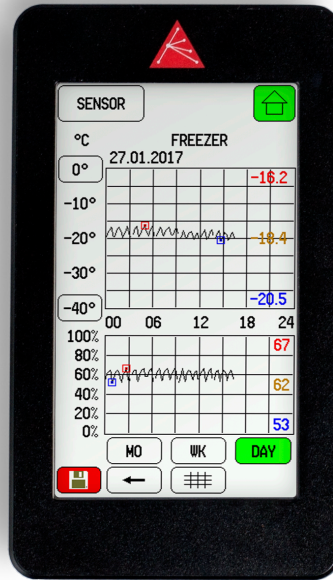
Visit www.aranet.com for more information.

ARANET MINI BASE STATION OVERVIEW

What's in the box



3



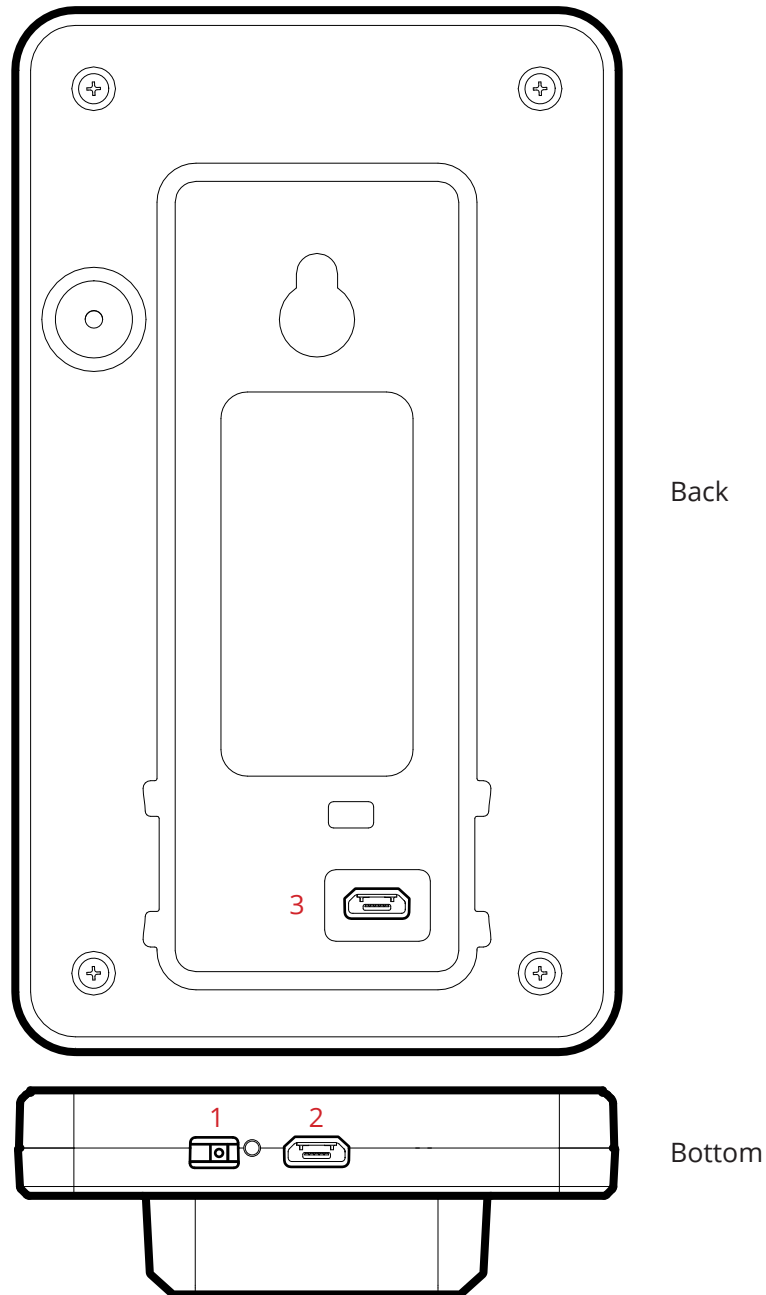
1



2

- (1) Aranet MINI base station
- (2) Aranet MINI base station mount
- (3) AC power adapter

Aranet MINI ports



- (1) On/off switch
- (2) Micro USB port
- (3) Micro USB port

!NOTE! Don't utilize both of the USB ports at the same time

Terms of use

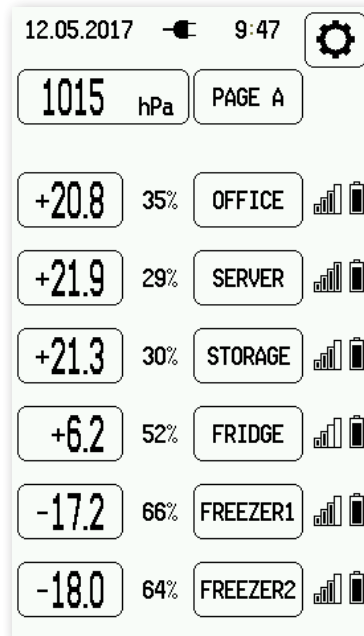
The Customer is obliged to guarantee the usage, maintenance, and preservation of the Equipment at their own expense in a way that excludes the Equipment's theft, loss, destruction, harming and/or damaging (including as a result of mechanical damages, moisture, liquid related damages, lightning and/or other similar events). The base station may only be used indoors, it needs to be protected from environmental impact (snow, rain, direct sunlight).

Aranet MINI Datasheet

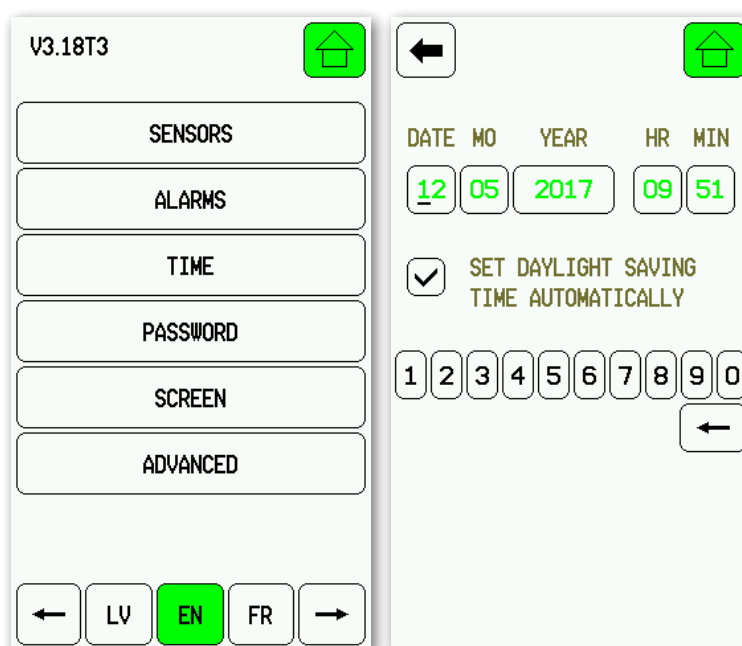
Aranet MINI	
Maximum sensors amount	12
Barometer	Built-in
Alarm type	Built-in audio alarm
Memory	10+ years with 12 sensors
Receiver sensitivity	-129 dBm
Channels	Channel 1: 917.6 MHz Channel 2: 918.4 MHz Channel 3: 919.2 MHz Channel 4: 920.0 MHz Channel 5: 920.8 MHz Channel 6: 921.6 MHz Channel 7: 922.4 MHz
Graph range	Temperature: -40°C to 120°C / -40°F to 248°F Humidity: 0% to 100% Pressure: 280 hPa to 1050 hPa
Data resolution	Temperature: 0.1° Humidity: 1% Pressure: 1 hPa
Data protection	Password for settings screen, encryption for data
Communication	USB cable to PC
Power options	AC Power adapter USB cable from PC Built-in battery (backup power up to 8h)
Operating temperature	0°C to 40°C / 32°F to 104°F
Operating humidity	0% to 100% non-condensing
Interface languages	English, French, German, Spanish, Portuguese, Latvian
Display	LCD, 4.3 inch, 480x272 px, resistive touchscreen
Dimensions	79x137x27 mm / 3.11x5.4x1.06 w/o stand
Ports	2 USB micro B
Weight	180g / 6.4oz w/o stand
Construction	ABS Plastic
Protection class	IP40
FCC Marking	Yes
Included	AC power adapter with USB cable, stand

INITIAL SET UP

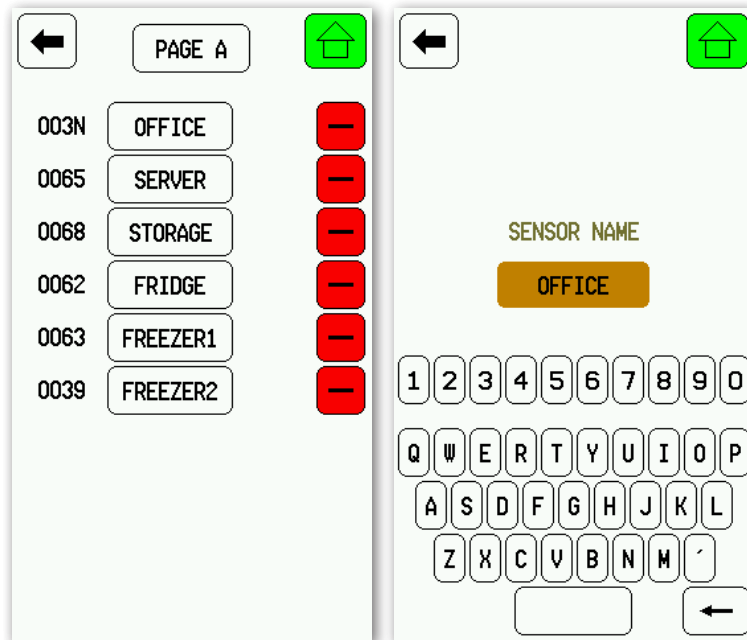
- (1) Turn on the device – the power switch is situated at the bottom, next to the USB port. You should now see the main screen. If no sensors are attached only the atmospheric pressure readings will be displayed. In the upper right corner the settings menu icon  is located.



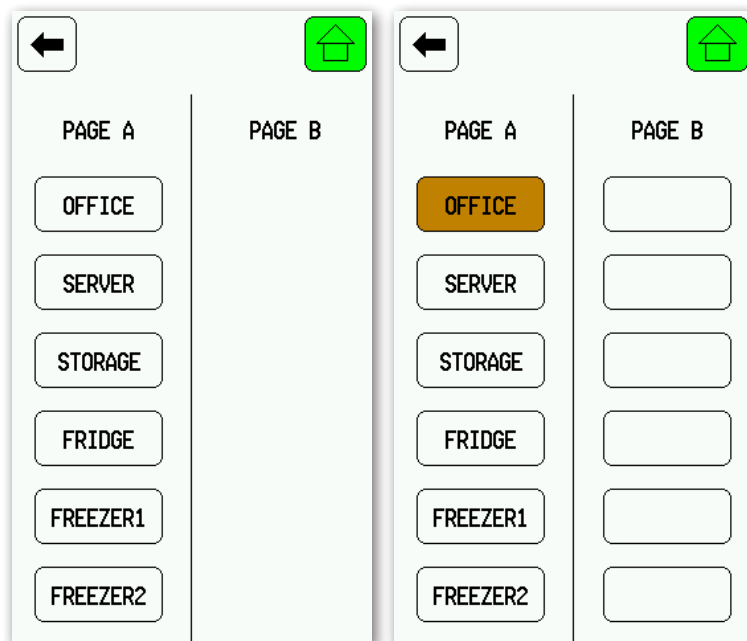
- (2) Attach the power supply to one of the two USB ports, depending on how the device will be positioned. In case it will be placed on a flat surface attach the included stand to the device. Once it is done the battery icon in the middle of the top row of the main screen will be changed to a plug icon.
- (3) Before adding sensors, tap then Time menu. Set correct time and date – it will ensure that the data is represented correctly. Tap  to return to the main menu or back to return to settings menu.



- (4) Tap , then choose Sensors menu and tap the Setup button. Set up a sensor by following the instructions on the screen. After successfully setting up a sensor, the sensor ID and the name of the sensor will appear on the left side of the screen. Sensors are given name "SENS <number>" automatically. Tap the name of the sensor to give it a new name with length up to 8 symbols. In order to remove a sensor just press the  sign next to it.



- (5) Set up other sensors in the same manner.
- To add more than 6 sensors, press the page button on top.
 - To change the order of the sensors, press  and . Then press on the sensors you want to move and then — where you want to move it to.
 - Tap the home button to return to the main menu.



DEVICE FUNCTIONALITY

Main menu

The top row displays the current date and time, and whether the unit is plugged in or relying on battery power. In case it is relying on battery power it will display a visual indication of battery charge left. This is also where you can find the settings  button.

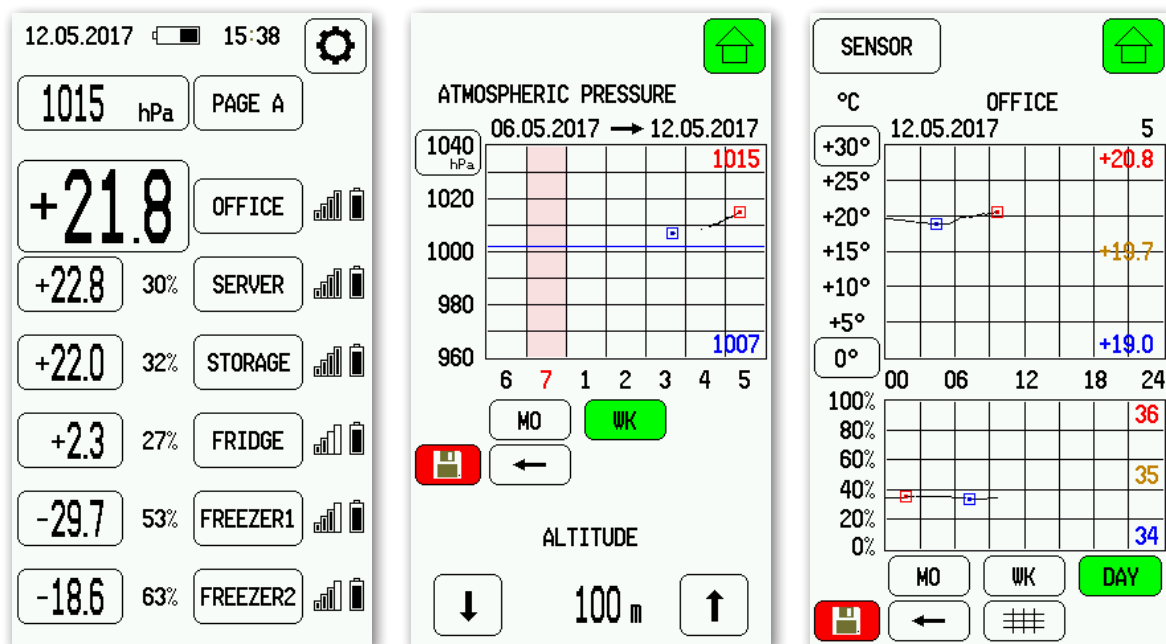
The sensors refresh information every 10 minutes. If there is no information received from a sensor for more than 30 minutes, the name of the sensor turns red.

On the right side of the name of the sensor, the strength of the received radio signal from the sensor and  the battery level  are shown. On the left side the most current temperature and humidity readings are displayed.

One page can show up to six sensors, if more sensors are attached they can be viewed by tapping the Page button.

Tapping the temperature indication **+22.0** will resize it. Holding it pressed down will make it go full screen.

Tapping the atmospheric pressure indication **1015 hPa** will show the atmospheric pressure graph. For best data representation it is recommended to set the current altitude as it adjusts the scale of the graph. Tapping the name of the sensor will show the corresponding temperature and relative humidity graphs. The time period shown can be modified with the options under the graphs, these options are one day, one week or one month. The next row of icons are for navigating the data – arrow keys allow shifting to the next or previous time period that is currently selected and the middle icon opens up a calendar where it is possible to quickly navigate to a particular date, week or month. The save icon allows you to make a quick snapshot of the graphs that will be saved in the device. The minimum and maximum bounds of the temperature graph can be changed by tapping on them.



Settings

To enter the settings menu press on the  icon in main menu. To get back to the main menu just tap the home  icon that is available on most settings pages.

On the bottom of the settings menu it is possible to change the Language used by the device by tapping the appropriate country code. The language code that is highlighted green is the one that is currently in use.

Alarms

The alarm can be set by tapping , then . The sound of the alarm can be activated by tapping  (turns red). If the value registered by the sensor is equal or lower than that set under the blue arrow, the alarm will sound and corresponding indication in the main menu will turn blue. If the value registered by the sensor is equal or higher than that set under the red arrow, the alarm will sound and corresponding indication in the main menu will turn red. By tapping on the colored indication, the sound is temporarily turned off. Once the values are back in the set range the sound is also turned off.

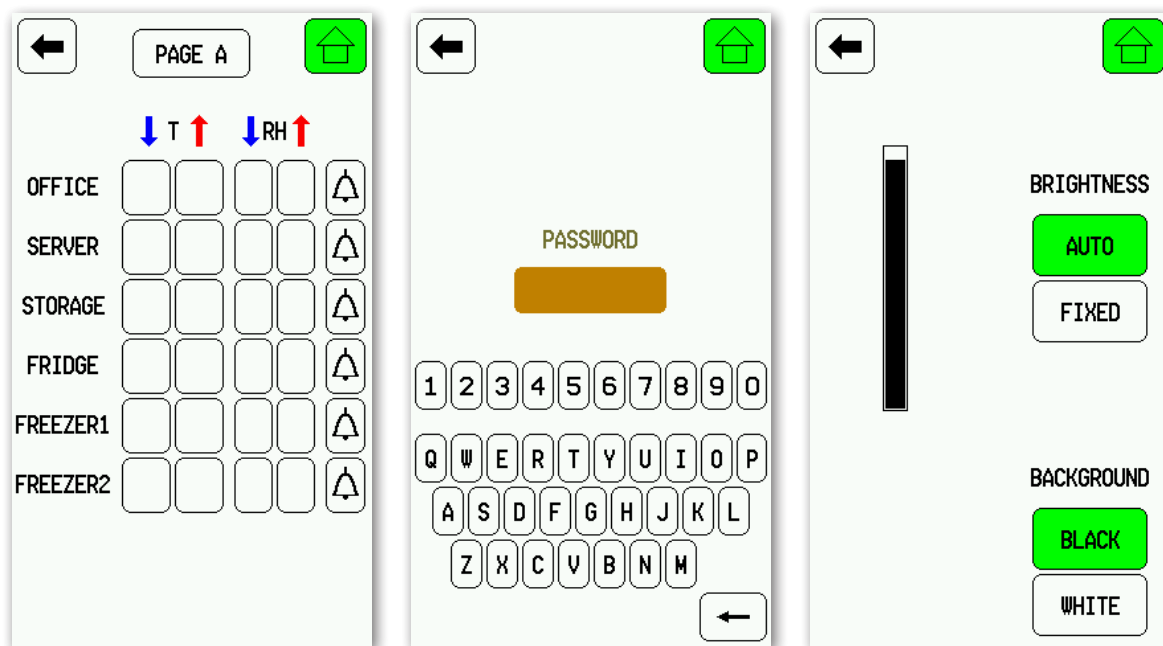
Password

It is possible to set up an 8 digit password that will be required every time a person tries to access the settings menu. As it is just a simple tamper proof mechanism, in case the password is forgotten the password *DEFAULT* will allow bypassing it.

Screen

The device has a built in light sensor, which automatically adjusts the brightness of the screen depending on how well lit is the environment around it. In this menu it is possible to also set up a fixed brightness in case it is preferred.

Two background colors are also available – black and white – which can be chosen to suit your personal preferences.



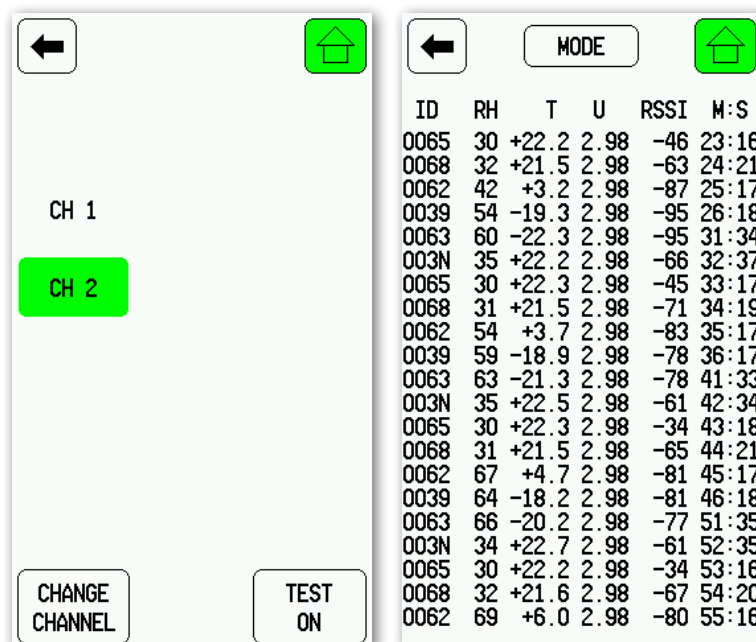
Exporting the data

Temperature, relative humidity and atmospheric pressure measurements are automatically saved in the device where they are sorted by year, month, date and the name of the sensor. The base station has enough memory to save data for more than a decade, even if no data exports are made. The graphs can be saved as images by tapping . Data and images are accessible when device is connected to a PC using USB cable. Data is saved in *.csv format, which can be opened by most spreadsheet software (including Microsoft Excel).

Advanced

Advanced features let you access the terminal to see the raw data about incoming signals – it displays the sensor ID, relative humidity and temperature measurement, sensor battery voltage, signal strength and time of received signal.

Channel menu allows you to choose from available radio channels for your device. In order to know which one is best a channel test can be performed – it will show which one has the largest amount of activity and thus choosing the least active radio channel can give you a more reliable data stream. The test takes 20 minutes to complete on Aranet MINI during which no data from sensors will be received!



TERMS OF USE

Aranet MINI base station - The Customer is obliged to guarantee the usage, maintenance and preservation of the Equipment at their own expense in a way that excludes the Equipment's theft, loss, destruction, harming and/or damaging (including as a result of mechanical damages, moisture, liquid related damages, lightning and/or other similar events). Base station may only be used indoors, it needs to be protected from environmental impact (snow, rain, direct sunlight).

!NOTE! For the full Terms and Conditions, please visit: <https://aranet.com/terms-and-conditions/>

Aranet MINI is supplied with built in UPS providing up to 8 hours of power supply in case of power shortage or portable use. It is meant only as a back up. If the device is charges the UPS on Power ON position it may suffer permanent damage.

!WARNING!

ARANET MINI BASE STATIONS CONTAIN AN LI-ION 14500 PROTECTED TYPE RECHARGEABLE BATTERY AND A CR2032 TYPE BATTERY. RISK OF DAMAGE IF BATTERY IS REPLACED BY AN INCORRECT TYPE. THE USER IS RESPONSIBLE FOR DISPOSAL OF BATTERIES ACCORDING TO THE STATE LEGISLATION.

WARRANTY

ARANET WARRANTY

SAF, which includes SAF Tehnika and SAF North America, LLC, has built a reputation on providing high-quality products to its customers and it stands behind each product it manufactures, including Aranet. Accordingly, SAF warrants the products it manufactures will be free from defects in material or workmanship and will function in accordance with their official written specifications for a minimum of two years as long as they are used and stored in accordance with industry standards and any unique handling instructions provided by SAF. While SAF warrants all of its products will function in accordance with their official written specifications, SAF does not warrant all products will function uninterrupted or error free. Further, verbal or informal specifications will not be covered by the Warranty. To be enforceable, a product specification must be stated in SAF official literature. No product shall be considered defective or otherwise in breach of the Warranty simply because it needs to be adapted to or otherwise does not comply with the laws and regulations (including frequency range) of the customer's home country or jurisdiction.

WARRANTY TERM

The Warranty shall apply to Aranet 24 months after it is shipped to the customer. An invoice itemizing a product's warranty period shall be included with the product when it is delivered to the customer. No verbal extensions or modifications of the Warranty shall be enforceable.

WARRANTY LIMITATIONS

The Warranty shall be voidable at SAF's discretion in any circumstance where a SAF manufactured product has been damaged by a customer's conduct or an act of God including, but not limited to: a.)

damage caused by the customer's improper use of the product; b.) mechanical damage caused by a physical impact; c.) the accumulation of moisture or water in a product's housing; d.) damage caused by wind, hail, rain, animal, insect or other environmental events; and e.) electromagnetic damage caused by a power surge, overvoltage, or a strike of lightning. Finally, for the Warranty to be effective, all repairs and modifications to a product, including its software, must be performed by SAF and the Warranty shall be voidable at SAF's discretion in any circumstance where a customer or its agent opens a product's housing or otherwise attempts to modify or repair a product, including its software, without SAF's permission. There are currently no third-parties authorized to repair SAF's products.

Product Repairs & Liability Limitations

In the event a SAF manufactured product does not conform with the Warranty, SAF will fix or replace the non-functioning product in accordance with the return and repair policy below. These options shall be a customer's sole remedy.

IN NO EVENT SHALL SAF BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR RELATING TO THE SALE OR USE OF ITS PRODUCTS, WHETHER OR NOT SAF HAS ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES. SAF'S SOLE AND EXCLUSIVE MAXIMUM LIABILITY FOR ANY LEGAL CLAIM ASSOCIATED WITH A SALE COMPLETED PURSUANT TO THESE TERMS OR THE WARRANTY, REGARDLESS OF WHETHER SUCH CLAIM SOUNDS IN CONTRACT OR TORT, LAW OR EQUITY, SHALL NOT EXCEED THE PRICE OF THE PRODUCT(S) SOLD TO A GIVEN CUSTOMER. BY SUBMITTING THEIR PURCHASE ORDER, EACH CUSTOMER KNOWINGLY WAIVES ANY AND ALL CLAIMS AND DAMAGES PRECLUDED BY THE FOREGOING LIMITATIONS INCLUDING, BUT NOT LIMITED TO, ALL CLAIMS ASSOCIATED WITH PERSONAL INJURIES (INCLUDING ANY CLAIMS BASED IN PRODUCT OR STRICT LIABILITY), LOST REVENUE AND PROFITS, LOSS OF TECHNOLOGY, LOSS OF RIGHTS OF SERVICES, UNFAIR COMPETITION AND COMMERCIAL LOSSES OF ANY KIND.

ACCEPTANCE, RETURNS & REPAIRS

If Customer has not received the goods he can contact SAF to help solving the problem. The claim of non-received goods should be raised within 60 days from the date of payment. No assistance will be available after the term of 60 days has passed. Prior to raise a claim to SAF, Customer should ascertain that a parcel is not received by any other person in Customer's premises. Also, Customer is asked to ascertain that a parcel is not left at any of the neighbours, etc.

SAF keeps the right to perform an investigation for a period of 20 days. In the case SAF has made a decision to compensate Customer for the losses, either a new product may be sent to customer or the price for the ordered product may be returned to Customer.

If Customer is not satisfied with a received product, he can proceed as described further. Restocking and Refund is not applicable for legal entity.

Physical person which is a resident of US and Canada may require Restocking and Refund within 60 days from the date of payment. No Restocking and Refund will be available after the term of 60 days has passed.

Physical person which is a resident of any country outside US and Canada may require Restocking and Refund within 14 days from the date of payment. No Restocking and Refund will be available after the term of 14 days has passed.

No more than one product (set), or a product for a price exceeding EUR 700 or USD 750 can be Restocked.

If the Restocking is accepted by SAF, the product(s) must be returned – unused, condition as brand new, without any defects, without dirt and scratches, containing all original labels, full completion as received, in original package as received. The shipment back to SAF is on Customer's account.

If Customer has failed to meet all of the Restocking rules mentioned above, SAF keeps the right to refuse the Refund, or reduce the amount of money returned.

If Customer has not requested a Restocking, Refund or raised a claim within 60 days from the date of Invoice, the product (set) is considered to be accepted by Customer.

Shipping to SAF

If the failure is discovered to a SAF manufactured product, it will be given a Return Materials Authorization ("RMA") number and should be returned to SAF by completing the RMA form at <https://aranet.com/rma/> and then shipping the non-functioning product in its original packaging (or packaging providing a similar level of protection) to one of the facilities below.

Standard shipping address is:

SAF Tehnika
RMA Dep.
24a Ganību dambis
Rīga LV-1005
LATVIA

All North American customers should ship their products to:

SAF North America, LLC
3250 Quentin Street, Unit 128
Aurora, Colorado 80011
U.S.A.
(720) 502-0728

All returns shall be sent to SAF at the customer's expense, and shall not be considered delivered until they arrive at SAF's facilities. SAF assumes no responsibility and shall not be liable for any products damaged while in transit to SAF's facilities. SAF strongly recommends the customer to purchase an appropriate amount of insurance from the carrier they use to return the product(s) to SAF.

Inspection & Repair

Non-functioning product(s) shall be evaluated and treated as follows:

DOA. Any product discovered as non-functioning within 30 days after it is shipped to the customer, for any reason other than a customer's misuse or mishandling, shall be deemed "Dead on Arrival" or "DOA" and replaced free of charge. Aranet products will be replaced no later than 20 business days after SAF verifies its non-functioning status.

Warranty Repair. All products subject to the Warranty shall, depending on the circumstances, will be repaired or replaced free of charge within 20 business days of their arrival at SAF's facilities.

Non-warranty Repairs. SAF will repair a product for a period of 5 years after it is delivered to the customer. All products repaired outside of the Warranty shall be repaired at the customer's sole expense. A quote for repair shall be provided to the customer via e-mail prior to the product being received by SAF or within a reasonable time after the product arrives at SAF's facilities. All repair and shipping costs must be paid by the customer in advance. SAF shall repair and ship the non-functioning product within 20 business days of receiving full payment for the repairs.

Post-repair Warranty

All repaired products shall be subject to the Warranty for a period of six months after they are repaired.

The additional warranty described herein may extend but shall in no way reduce any pre-existing warranty periods already applicable to the product.

Return Costs

If a given product is covered by the Warranty, SAF will pay the shipping costs associated with returning it to the customer. If a product is outside of the Warranty, the customer shall pay all costs associated with transmitting it to and from SAF. An estimated cost of return will be included in any repair invoice sent to the customer, and must be paid before SAF will return a repaired product.

Shipping & Abandonment

Any non-functioning product remaining in SAF's possession for three months after a customer receives an invoice for repairs because the customer has failed to pay the invoice in question, shall be considered abandoned. A customer's rights in all abandoned products shall be considered forfeit and SAF shall have the right to reprocess such products in any manner it sees fit.

Sole Warranty

UNLESS SAF AGREES TO ADDITIONAL OR ALTERNATE TERMS IN WRITING, THE WARRANTY DESCRIBED HEREIN IS THE SOLE AND EXCLUSIVE WARRANTY OFFERED TO SAF'S CUSTOMERS, AND NO ADDITIONAL WARRANTIES ARE GIVEN OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, TITLE OR FITNESS FOR A PARTICULAR PURPOSE.

CHANGES TO THESE TERMS & CONDITIONS

We reserve the right to update or change our Terms and Conditions at any time and you should check these Terms and Conditions periodically. Your continued use of the Service after we post any modifications to the Terms and Conditions on this page will constitute your acknowledgment of the modifications and your consent to abide and be bound by the modified Terms and Conditions.

RMA (RETURN MERCHANDISE AUTHORIZATION) FORM

To file an RMA case, please fill out the form here: <https://aranet.com/rma/>

INTELLECTUAL PROPERTY RIGHTS

All intellectual property rights in or related to the Products including, but not limited to, patents, trade secrets, know-how, copyright, trademarks, service marks, and mask rights, registered or unregistered, owned or otherwise used by SAF, as well as all goodwill related thereto are and shall remain at all times the exclusive property of SAF. None of the foregoing property rights may be exploited by SAF's customers except as provided in these Terms nor shall such rights be transferred to SAF's customers except as expressly provided in these Terms. Each customer shall take reasonable measures to protect SAF's intellectual property rights.

SAF's and Aranet name and logo are proprietary trademarks and shall not be used without SAF's explicit permission. The customer shall further not alter or remove any proprietary marks, logos, or labels on SAF's Products.

!NOTE Read carefully

It is responsibility of the user to enforce the country regulation and the specific environment regulation. Do not use this device if using the device is prohibited. Do not use the device if doing so causes danger or interference with other electronic devices.

Keep away from children, Do not allow children or pets to bite or suck the device or accessories. Doing so may result in damage or explosion. Observe local laws and regulations, and respect the privacy and legal rights of others.

Do not disassemble the product; any mark of tampering will compromise the warranty validity. We recommend following the instructions of this user guide for correct setup and use of the product.

CLEANING AND MAINTENANCE

Keep the device and accessories dry. Do not attempt to dry it with an external heat source, such as microwave oven or hair dryer.

Do not expose your device and accessories to extreme cold or heat. These environments may interfere with proper function and may lead to fire or explosion.

Avoid collision, which may lead to device malfunctions, overheating, fire, or explosion.

Please handle the product with care, avoiding any dropping and contact with the internal circuit board as electrostatic discharges may damage the product itself.

CAUTION: ARANET MINI BASE STATION CONTAINS AN ENCLOSED BATTERY. RISK OF DAMAGE IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS. The user is responsible for disposal of the batteries according to the Universal Waste Rule. Batteries should not be disposed of as household garbage. These items should not be disposed as of unsorted municipal waste and should be taken to a certified collection point for recycling or proper disposal.

ACCESSORIES

Use only power supplies which are provided by manufacturer and in the original packaging of this product.

Using unapproved or incompatible power adapter, charger or battery may cause fire, explosion or other hazards.

Choose only accessories approved for use with this model by the device manufacturer. The use of any other types of accessories may void the warranty, may violate local regulations and laws and may be dangerous, Please contact your retailer for information about the availability of approved accessories in your area.

DISCLAIMER

All contents of this manual are provided “as is”. Except as required by applicable laws, no warranties of any kind, either express or implied, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose, are made in relation to the accuracy, reliability or contents of this manual.

To the maximum extent permitted by applicable law, in no event shall SAF Tehnika JSC be liable for any special, incidental, indirect, or consequential damages, or loss of profits, business, revenue, data, goodwill savings or anticipated savings regardless of whether such losses are foreseeable or not.

ADDITIONAL INFORMATION

For additional information, please contact helpdesk@aranet.com



SAF Tehnika JSC
24a, Ganību Dambis
Rīga, LV-1005, Latvia