





USER GUIDE SOEKS ECOVISOR F4

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PROBE SHOULD NO

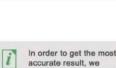
PRODUCT AND PRESS





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recommend inserting the

In order to get the most

recommend you wait for

temperature to stabilize.

nitrate content in the product will be displayed

45

After the measurement process is completed, information about the

65

"Normal nitrate content". The product is safe for consumption.

or children and the elderly to consume the product.

ATTENTION! There are fruit

and vegetables in the list of Nitrate tester, which has air

products, it is important not

inserted into the air cavity, the measurement result will

to insert the probe into the air cavity. When the probe is

cavities (for instance, bell

When measuring such

be inaccurate.

quantity. Heat processing is recommended. It is not recommended

accurate result, we

mode, you will see a list of products. You must choose a product from the list. Press the UP and DOWN icons on the display or press LEFT and RIGHT buttons on the device to navigate through the You can confirm your choices by pressing icon of the product in the list or by pressing OK button on the

device. In order to return to main

menu, press X icon in upper left

corner of the display or press and

After entering the "Nitrate tester"

hold LEFT button on the device. After making your choices, the device will perform the product probe calibration. When calibrating the probe must not be inserted into product. After calibration, the device will display the product name, its standard nitrate content (mg/kg) and recom how to insert the probe. You must then insert the probe into product, wait until temperature stabilizes (this will be shown by the indicator in upper right corner of the display screen) and then press MEASURE icon on the display or OK button on

You may press MEASURE icon at once without waiting for temperature to stabilize, because the device will display measurement result anyway. If the product was at a room temperature, the result will be fairly accurate. If the product has just been taken out of fridge, the result will be less accurate. In this case, you may wait for temperature to stabilize and press REPEAT button. Then, the device will display a more accurate result.

the device once the temperature



Description and device operation	
Purpose	
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The device	
Proper use	
Switching on/off	
Main menu of the device	
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Nitrate measurement	
Radiation measurement	
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Water measurement	
Settings	
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Battery replacement	
Accumulator charging	

ance life, storage and recycling

Performance life Storage Recycling

Transportations

The following user guide will provide you with comprehensive information on how to use your SOEKS Ecovisor F4 device. We strongly recommend you read the entire user guide and follow all of the structions listed on this guide. Γhe manufacturer has the right to change the interface of the device after updating the device's firmware.

② 23,8 °C ▼

100

1. Do not connect the device to a computer or USB connector

Before using the device, please read all of the safety instructions liste below and pay attention to them when using the device. Disregard of safety instructions can lead to malfunction or total breakdown of the device. The manufacturer's warranty is not valid if it is discovered the eason of breakdown because of failure to follow the safety

when you are using normal (AAA) batteries. This may lead to battery fire outbreak or explosion. You should only use the USB onnector charger with rechargeable batteries.

2. This device is not waterproof. You should avoid getting the device wet or use it in areas with high humidity. An exception to this would be when using the device in water quality defining mode. When

3. You should avoid dropping the device and other physical impacts

4. Do not leave the device for exposed to sunlight or high temperatures for a significant period of time. This can lead to electrolyte leakage from the battery and can cause the device to

5. Do not leave the device for long period of time near devices that generate strong magnetic fields. For instance, do not leave it near nagnets and electric motors. Also, keep the device away from places where strong electromagnetic signals are generated. For example, near radio transmissions.

6. Do not perform measurements in proximity to mobile phones and microwave ovens as this may lead to distortion in the device's

7. Do not try to pull apart the device or fix it yourself.

8. When setting up batteries, beware of battery polarity. Incorrect placement of the battery may result in the device malfunctioning.

unstable nucleus that decay into small elementary particles or quanta. Detachment of elementary particles or quanta is called

Radiation is called ionizing, because it leads to atomic ionization of substance that is stroke by radiation. Ionization is called the process of striking one or a few electrons out of atom. After that, nucleus and eft electrons ereate a system that is positively charged and is called an ion.

other molecules by breaking a bond between nucleuses. That is the reason why ionized radiation has a harmful impact on human's

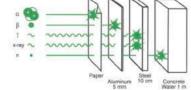
Radiation influence on human's body is called irradiation. Radiation transpierces any body tissues and ionizes their particles and molecules. This leads to creation of ionized nucleuses (ions or o-called free radicals) that destroy molecules and leads to death of

is accompanied by radiation of these particles. This radiation is livided into following types:

massive particles.

Beta decay (beta particles) are electrons that move with an enormous

which although are considered to be particles, represent at the same time electromagnetic radiation such as sunlight, radio waves and "Significant excess of standard". It is recommended not to consume rays. Their different consists only of big energy that every gamma quantum carries. Gamma decay always spreads with the light velocity when other particles are not that speedy. In comparison with alpha and beta particles, you need a lot more material, concrete or

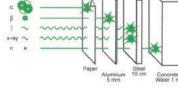


Some chemical elements (so called radioactive isotopes) contain

Alpha decay (alpha particles) are inert helium nucleus, the most

speed. They are able to penetrate our body for a few centimeters.

Gamma decay (gamma particles) consist of gamma ray quantum, Natural radiation exposure usually ranges from 0.08 mSv/h till 0.18 mSv/h. Safe radiation exposure level for a human is considered to be



adiation measurement (Dosimeter)

lonized atoms strongly differ from average nucleus. Ions destroy

As mentioned before, nuclear disintegration into elementary particles

up to 0.4 mSv/h (the 0.4 mSv/h exposure per hour). When level of radiation is exceeded (more than 0.4 mSv/h), the recommended time of staving in irradiation area is regressive. When lead in order to protect yourself from gamma decay. radiation level amounts to 0.4 mSv/h, you can stay in the irradiation area for one hour. When the radiation level amounts to 0.8 mSv/h, you can stay in irradiation area for half an hour. Duration of stay in area with 1.6 mSv/h radiation amount should not exceed 15 minutes and

> After entering the "Dosimeter" mode", because it is necessary to estimate amount



Description and device operation

re compensating, °C

Scale range of possible radiation background mR/h

Overall dimensions height x width x thickness, max, mr Device mass (with power supply) , max, grs

X-rays are electromagnetic radiation (just like gamma decay) but it

Neutron radiation is an uncharged particles stream (neutrons). It is

The picture shows how different types of radiations penetrate into

hour (mSv/h) and micro roentgen per hour (mcR/h).

Modern domestic dosimeters measure radiation in micro Sieverts per

The radiation dose absorbed by human's body is measured in micro

To estimate the radiation influence on human's body, the concept of

biological danger of this radiation type. The unit of measurement for

absorbed radiation type and give most impute to human exposure, the concept of air radiation dose is used. It has its own unit of

background at higher grounds is always higher than at lower grounds.

v/h) and micro roentgen (mcR/h), where 0.01 mSv/h corresponds

SOEKS Ecovisor F4 measures radiation in micro Sieverts per hour

to 1 mcR/h according to biological radiation effect.

There is no natural radiation exposure standard, because radiation

exposure depends on region, district and amount of radioactive particles that are found in objects around. For instance, radiation

equivalent dose is used. Equivalent dose is an amount of energy

absorbed by mass unit of biological tissue taking into consideration

To estimate the influence of gamma decay, which are the most

Sieverts and the radiation dose in the air is measured in micro

has less energy. In everyday life, it is generally only used at medical

Registered gamma ray energy, eV Warning thresholds, mSvh Warning threshold mRVh Varning threshold mRVh

Power supply range, V

institutions.

attery charging current, max, mA

Current from power supply or USB , max, mA

usually only found at nuclear reactors.

equivalent dose is the Sievert (Sv).

measurement - roentgen (R).

SOEKS Ecovisor F4 is designed to:
-perform express analysis of nitrate contents in fresh fruit and
vegetables. Nitrate content analysis is based on conductivity of
alternating high-frequency current in the measured product

-water quality evaluation. The analysis is based on measurement of high-frequency alternating current conductivity.

from 20 to 5,00 From 0° to 30°

2. Touchscreen for displaying information and menu navigation on/off, confirmation button.

Main parts of the device consist of:

1. Micro USB slot for charging the

-measure radiation exposure level and identifying radioactive contaminated foods and construction supplies. Ecotester can easily measure the level of radioactivity according to the power level of ion radiation (gamma radiation and beta particles flux). 4. LEFT button for menu navigation -recording of electromagnetic field in facilities, living areas and from domestic appliances. When electromagnetic fields are detected, electric and magnetic field intensities are evaluated. return to previous menu when pressing

for 2 seconds.

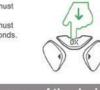
5. RIGHT button - menu navigation

6. Measuring probe is inserted in the fuct to measure nitrate content

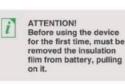
7. Protective cap protects the probe.

Switching On/Off

In order to turn on the device, you must press OK button briefly. In order to turn off the device, you must



Main menu of the device



The device has touchscree capability. Interface management can be performed with both buttons

Afterwards, information about radiation exposure level is displayed





-0,31

rmal radiation background". Normal radiation exposure that is harmless for a human.

"Increased radiation background". You should not stay in an area with such radiation for more than 30 minutes.

"Dangerous radiation background". You should leave this area

When being in 'Dosimeter' mode, the following information is displayed

 Accuracy indicator scale. The higher the scale, the more accurate the result that you will obtain.

2. Current evaluation of radiation xposure level. Measurement units

4. "DOSE" button (switching to 2 accumulated dose mode). 5. Information about radiation

xposure status.

7. "RESET" button (resetting the

In order to measure the radiation exposure of food products construction supplies and others materials, perform following:

1. Measure the radiation exposure level at a distance of a few meters from the measured object. 2. Set the device directly near the measured object and measure the

radiation exposure at the possible nearest distance to the measured object.

3. Compare the results that have been received at a distance and near the object.

In order to measure contaminated liquid, measure directly above the

Main menu of the device is presented in the form of icons. Each of which allows you to access the different modes of the

Main menu of the device consists of following selections

areas and from domestic appliances.

solid substances (impurities) in water.

"Settings" - device performance settings

There is a following service information on the display

Measurement of nitrate content level is based on patented

puts high-frequency electric current through pulp.

technology of biobased product ionometry (Patent of invention N

23 90 767 Ionometry Method for biobased products and the device

for its performance) and has been developed by SOEKS company.

The technology is based on a specialized procedure method that

Electromagnetic field meausereme

Electromagnetic field (EM field) is a special form of matter, which

alternating electric and magnetic fields. EM field spreads from one

allows interaction of charged particles. It represents interrelated

space point to another in form of electromagnetic progressive

EM field is made up of particle charges. In physics lessons, for

Magnetic field is created when electrical charges move through

example, students perform experiments with ebonite electrification.

In order to characterize electric field strength, we use "electric field

intensity" definition (mark sign - E, measurement unit - V/m (Volt

strength, measurement unit - A/m (Ampere per meter). When

measuring very low and extremely low frequency, "magnetic

Experimental Data of Russian and foreign research show that

electromagnetic fields are highly bioactive and can negatively

Many researches of EM field's biological effect allow us to detect

the most susceptible body functions; nervous, immune, endocrine

and reproductive systems. These bodily functions are critical.

EM fields influence mostly organs with high water concentration

sleep disorders, memory impairment and lack of attention span.

Biological effect of EM fields tends to accumulate over time and

nervous system, blood cancer (leukemia), encephaloma or

may result in adverse health impacts such as degenerating central

The following are symptoms of EM field influence: fatique, irritability.

These are the eyes, brain, stomach and kidneys.

Electromagnetic field influence on human's healt

per meter)). Magnetic strength is characterized by N magnetic field

density" definition is often used (mark sign - V, measurement unit -

Service information

1. Battery charge level indicator

2. Accumulated dose indication

6. Radioactive particles indicator

Electromagnetic field (EM field)

vaves running from source

impact our health.

endocrine system disorders.

which demonstrate, what electric field is.

7. Current indication of radiation exposure

3. The protective cap is off

4. Connection to the PC

5. Current time

"Information" - manufacturer's contact information

"Nitrate tester" - measures the nitrate content level in

"EMF" - records electromagnetic fields in facilities, living

Water quality measurement" - evaluates content level of

■ ⇔ ← 14:25 ÷0,16

1 3 4 5 6 7

"Dosimeter" - measures the radiation exposure.

Menu navigation is performed by pressing the necessary icon. Menu navigation ca also be performed by pressing LEFT and RIGHT buttons. Entering the necessary mode is provided by pressing OK button.

The amount of every single element (ionic or molecular) is determined by bio-organic components of certain plant (every plant has a basic level of ion concentration) and by contents of water and soil where the plant grows.

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People often use fertilizer to aid plants growth. For instance, saline fertilizers such as nitrates and phosphates. These fertilizers breal

down and reach the plant, which then absorbs these fertilizers. Circulated within the plant, saline ions (nitrates, phosphates and etc.) accumulate in different plant parts ncluding the plant's fruits. This leads to higher amounts of

Every plant contains ions of potassium, magnesium, ferrum, cuprum, chlorine, plenty of organic acids and other elements in certain

amounts that are necessary for proper growth.

SOEKS Ecovisor F4 is mastered according to nitrate ions content. Percentage of these in fruit and vegetables is identified by an independent analysis method (potentiometric identification of nitrate content according to Russian National Standard (GOST) "Fruit and vegetables recycling products. Nitrate content identification").

electrolytes and to higher electrical conductivity of the fruit as well.

The result of the device's express analysis is shown by the device in the form of nitrate ion concentration and comparing this to maximum permissible concentration for certain product. The device measure the nitrate concentration per kilogram of product nett. 200-300 mg of nitrates consumed in a period of less than 24 hours are considered to be safe for an adult. 600-700 mg of nitrates consumed in a period of less than 24 hours are considered toxic.

For instance, when measuring a beetroot using the device, the device measure 1000 mg of nitrates per kg of the beetroot. This means that you can eat up to 200 g of this beetroot without risks to your health.

the watermelon and one should be aware of the fact that consuming more than 2 kg of the watermelon may pose some risks to your

EM fields are especially dangerous for children, pregnant women,

people with central nervous disorders, endocrine or cardiovascular

system, individuals with allergies and people with autoimmune

Based on many researches, nervous system is one of the most

by feeble EM fields, serious malfunctions at a level of neurons.

memory and nervous activity disorders.

exposed to electromagnetic fields

data has proven this statement

and early organogenesis

congenital defects.

sensitive part of the human body to EM fields. When being affected

neural synapse and isolated neural structures occur. People, who

are in contact with electromagnetic fields, eventually will experience

Nowadays it has been proven that electromagnetic fields negatively

affect immunologic reactivity of body. Research data points to the

fact that immunogenetics processes are suppressed when being

When being exposed to electromagnetic fields, the human body

process. When being exposed to electromagnetic fields, pituitary

adrenal system is stimulated and therefore the amount of adrenalin

in blood increases, triggering formation of blood clots. It is known

environmental interaction immediately and consistently. Research

Reproductive system disorders are usually connected with changes

Many scientists refer EM fields to teratogens that influence women's

health during pregnancy and fetus development. It is thought that

is very vulnerable at infancy which means period of implantation

It is proved that fetus sensitivity to EM field is notably higher than

stage of its development. Results of epidemiological studies show

that pregnant women, who are in contact with electromagnetic field

might suffer from premature birth. In addition to this, there may also

negative impact to fetus development and may even lead to

nothers and electromagnetic fields might damage the fetus on any

electromagnetic fields can, for example, lead to birth defects. Fetus

that hypothalamus - pituitary - adrenal cortex system reacts on

in its regulation on behalf of nervous and neuroendocrine syste

This is connected with research results of pituitary gonadotropic

activity condition, when being affected by electromagnetic fields.

Continuous EM field irradiation leads to lower pituitary activity.

may also experience changes in its pituitary adrenal system

When measuring a watermelon, the device shows 350 mg per kg of

One should also understand that the shown result is evaluative and cannot be compared to quantified chemical analysis at an advanced laboratory.

Such analysis requires significant amount of time and costs. Nevertheless, the presence of such laboratory and gualified analytical chemist at home is beyond the reach for the majority of people, and Ecovisor F4 allows you to avoid buying harmful products and protect yourself and your family, especially young children.

Nitrate tester analysis takes only a few seconds. In order for the device to continue working, all you need is battery replacement or accumulator charging similar to that of a mobile phone.

Of course, you may ask yourself is there increased electrical conductivity is not nitrate ions? That kind of situation is possible but will the consumer feel more relieved when buying a product with increased amount of phosphates or any other ions instead of nitrates or when buying an already going bad product? One should not forget that basic electrical conductivity is determined for every single type of fresh fruit or vegetable, but when the product goes bad, the content and concentration of organic acids change.

ATTENTION! We strongly do not recommend the use of this device to measure nitrate content in liquids



and chemically and/or heat-treated products as well



temperature. Changes in the product temperature can inc inaccuracies. This is likely to be the case when the device is used to evaluate products that have just een taken out of fridge or have been exposed to sun rays. SOEKS Ecovisor F4 is equipped with thermal compensation function, by means of embedded temperature gage in probe of the device. measurement using this device, you can get the of measured products are different.

Electromagnetic field in facilities

0.2 m distance from windows and walls, 0.5-1.8 m high from floor) should not exceed 500 V/m (kilovolt per meter).

Magnetic field strength of 50 Hz commercial frequency in facilities (at 0.2 m distance from windows and walls, 0.5-1.5 m high from floor) should not exceed 10 mcTl (microtesla

Electric and magnetic field of 50 Hz commercial frequency can be evaluated when domestic appliances are turned off and local lighting is turned on. Electric field is evaluated when ambient lighting is off and magnetic field is evaluated when ambient lighting is on.

Electromagnetic field in living area

1.8 m height from ground.

Electrical field of 50 Hz commercial frequency from overhead transmission lines and other objects on the territory of residential constructions should not exceed 1 kV/m (kilovolt per meter) at 1.8 m neight from ground Magnetic field strength of 50 Hz commercial frequency from overhead transmission lines and other objects on the territory of esidential constructions should not exceed 25 mcTl (microtesla) at

Electromagnetic field from domestic appliances

If used at home, domestic appliances are sources of electromagneti strength, one must evaluate their effect at a distance 10+-0.1 cm. In addition to this, EM field should be measured standing in front of, behind and next to the object (except TV)

Electromagnetic field from TV with a diameter less than 51 cm (20") s measured at a distance of 50 +-1 cm in front of, behind and next to the TV (when screen diameter is more than 51 cm, EM field is measured the same way at a distance of 100+-1 cm). The device must be turned on prior to measurement and in use for at least 20 minutes before measuring.

Electromagnetic field from PC

Electric field strength from PC ranging from 5 Hz to 2 KHz should not exceed 25 V/m (volt per meter). Magnetic flux density from PC ranging from 5 Hz to 2 KHz should not exceed 0.25 mcTl (microtesla)

Electromagnetic field is measured at 50 cm distance from the screen.

"Review" mode does not have a set trigger threshold; it just displays

In "EM field" mode, the following information is displayed:

a current electrical and magnetic field indication

2) Magnetic field strength 3) Measurement mode

There are four electromagnetic field measurement modes in the device:

- EM field in facilities - EM field in living area



X EMF

____ 15 v/M

Ø 0,12M€

You can switch modes by pressing LEFT and RIGHT icons on the screen or by LEFT and RIGHT buttons on the device case. In order to exit EM field mode, press X icon on the screen or press and hold LEFT button on the device.

When the safe threshold of electric or magnetic field in any mode (except "REVIEW" mode) has been exceeded the indicator will have red color.

In order to charge the accumulator, connect USB cable to the micro USB

nnector in the upper part of the

rose knot. In addition, you can charge

ATTENTION! Never connect the device to a

charger or USB connecto

if it has normal (AAA)

elements or lead to the

Performance life is 8 years from the selling date.

The device in the original package must be kept in heated

There must be no conductible dust, acid fumes, alkalis or other

If transported and stored in an unheated warehouse, the device

should not be stored for more than 3 months. When storing the device more than 3 months, the device should be unpacked.

Recycling of the device must be in accordance to GOST Standard

requirement 1 as per GOST Standard 15150-69).

corrosive environment in the warehouse.

30167-95 and local governing document

warehouse with the air temperature from +5 to +40 C and maximum relative humidity 80% at the 25 grades temperature. (Storage

Perfomance life, storage and recycling

batteries. This can

overheat the power

your device by connecting it to a

notebook or PC.

device and insert the power adapter into



Water quality measurement is intended for evaluation quality of drinking water, as well as of water from treatment systems, hydroponics, fish tanks, swimming pools, domestic appliances and from water wells.

The device measures amount of solid particles that are dissolved in the water (TDS- total dissolved solids) per 1 million water particles ppm (parts per million).

Among water particles, there is an enormous amount of dissolved water impurities in it. The main impurities are both inorganic salts (such as chlorides, sulfate bicarbonate of calcium, sodium, magnesium, potassium) and a small amount of organic substances.

The amount of impurities dissolved in water solid particles depends on natural environment and varies from region. In city area, water content is influenced by industrial drainage water, rainfall drainage,

Water impurities determine water quality and may influence living

Every day water consumption has strong impact on our body. assium and magnesium salts affect water quality, high level of which adversely impact water features, including taste, smell, system, hair and skin when taking shower and may also cause

With the help of Ecovisor F4 now, it is possible to determine if water is safe for drinking, domestic needs or the water requires purification.

Ecovisor F4 can be used for evaluation of water filter efficiency. In addition, Ecovisor F4 is used for reverse osmosis filter. Such filters have a few filtration levels. One of them is represented by reversemosis membrane, which stops water impurities that cannot be stopped by other filters. Membrane's service life period depends on amount of impurities in stream water. Membrane clogging leads to its mechanical damage and as the result, the whole filtration system

Ecovisor F4 allows measurement of amount of solid particles when they are entering and exiting filtration system and recording the measurement. After some time of using filter, it is necessary to do measurement once more. If the amount of salts exiting has increased, you should wash and change the membrane.

In addition, Ecovisor F4 is can be used in aquatics. The device can determine whether the water measured has the necessary amount

Moreover, Ecovisor F4 can be used when using water for plants and Water measurement (Quality evaluation flowers. Contaminated water negatively affects plants, because it increases concentration of lime in ground. As the result, the ground becomes alkaline and the plants are unable to absorb nutrition.

> Water containing high amount of solids is harmful for use in domestic appliances (washing machines, coffee machines, and irons with steam generator, kettles, dishwashers and boilers). In all of these devices, there is a heating spiral. Solid waste on the heating spiral ises heating time, leads to overheating and breakdown Ecovisor F4 can help to evaluate quality of water in domestic appliances and take precautions when using it in the future.



After entering the "WATER MEASUREMENT" mode, probe calibration is performed. When calibrating, the probe must not be in the water. After calibrating, recommendations on how to dip the probe in the water will be displayed. It is necessary to dip the probe into water, wait until temperature stabilizes (indication will be shown in upper right corner of the display) and press MEASURE icon on the display or OK button on the device.







After measurement, information about solids content in the water is

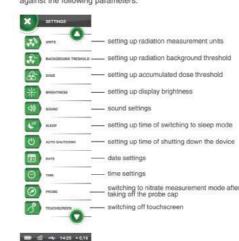


- low hardness water - water is suitable for drinking.

medium hardness water - water is suitable for drinking in small

- hard water - water is not suitable for drinking.

In the "SETTINGS" mode, it is possible to perform device settings against the following parameters:



The manufacturer quarantees device performance while consumer observes terms of use, precautions, storage and transportation precautions that are stated in user guide

When transporting the device by plane, the device must be stored

The device must be settled and anchored so that it is in a stable position and not moving.

Any type of transport can ship the packed device over any distance

according to the shipping rules that are applied to the corresponding means of transport. In addition, the package must be protected from

direct sunlight.

Terms of transportation should meet storage terms 5 according to G OST Standard 15150-69.

If the device remained at below-zero temperatures for a long time, it must be left indoors for 2 hours in room temperature before use.

The warranty period for the device lasts 24 months from the date

If any malfunctions are detected in the device, the warranty period shall be extended for the time during which the device is under the warranty repairs and the ultimate user is unable to use it.

The manufacturer during warranty period executes remedial work for gratis according to the Law of Russian Federation 07.02.1992 N 2300-1 (red. 13.07.2015) "concerning the Protection of Consumer Rights*, when user follows all operating conditions, safety measures and requirements to storage and transportation and when there are

outlined in this manual before contacting the warranty repair at our official website: www.mysoeks.com, by telephone: +7 (495) 221-05-82, mailing address: Russian Federation,

The guarantee shall be void if:

- 1. The serial number of the device is not the same as the number in the guarantee coupon.
- 2. The guarantee coupon is not available or illegible because of damage, corrections or erasures.
- herein are not followed

inside the case, color spots on the display and etc.)

7. The user does or attempts to disassemble and repair the device

Manufacturer's warranty

We recommend that you read thoroughly the instructions service. Please send all your comments to our e -mail address

- 4. Malfunction is caused by third party actions or force majeure.
- 5. The device or its component part has signs of shock or other

6. Malfunctions are caused by foreign objects. Liquids or insects

on their own.

no mechanical damages.

27566, Mocow, Altufyevskoye shosse, 48/ 1, office 39.

- 3. Requirements for shipment, storage and operation described

or OK button on the display case. In selection, press X icon in the upper left,

In this menu selection, you can set up accumulated dose threshold and the device will notify you when it is ceeded. The threshold can be set up

> In order to choose the unit, press LEFT nd RIGHT icons on the display or LEFT AND RIGHT buttons on the display case. In order to confirm your choice, press SAVE icon on the display or OK button on the display case. In order to return to previous menu selection, press X icon in the upper left

LEFT button on the device case.

from 0 to 1 Sv (or from 0 to 100 R).

Setting up radiation measurement

neasurement unit (Sievert or

In this menu selection, you can set up

Roentgen).
In order to choose the unit, press LEFT

and RIGHT icons on the display or LEFT AND RIGHT buttons on the

display case. In order to confirm your

order to return to previous menu

LEFT button on the device case.

Setting up radiation exposure

device will notify you when it is

choice, press SAVE icon on the display or OK button on the display case. In

selection, press X icon in the upper left

corner of the screen or press and hold

In this menu selection, you can set up radiation exposure threshold and the

from 0 to 100 mkSv/h (from 0 to 10,000

In order to choose the unit, press LEFT

display case. In order to confirm your choice, press SAVE icon on the display

orner of the screen or press and hold

and RIGHT icons on the display or

LEFT AND RIGHT buttons on the

LEFT button on the device case.

Setting up accumulated dose

corner of the screen or press and hold

0,10

SEVERT

0.40

LEFT and RIGHT icons on the display or LEFT AND RIGHT buttons on the display case. In order to confirm your choice, press SAVE icon on the display or OK button on the display case. In order to return to previous menu selection, press X icon in the upper left corner of the screen or press and hold LEFT button on the device case.

Setting up display brightness

display brightness. There are 3 brightness levels.

In this menu selection, you can set up

In order to choose the unit, press LEFT and RIGHT icons on the display

or LEFT AND RIGHT buttons on the display case. In order to confirm your

choice, press SAVE icon on the

display or OK button on the display

case. In order to return to previous

menu selection, press X icon in the upper left corner of the screen or

press and hold LEFT button on the

In this menu selection, you can switch

on/off device sound, sound of particle

counter, sound of radiation exposure threshold, sound of accumulated

order to choose the unit, press

LEFT and RIGHT icons on the display

or LEFT AND RIGHT buttons on the display case. In order to confirm your

choice, press SAVE icon on the

display or OK button on the display

case. In order to return to previous

menu selection, press X icon in the upper left corner of the screen or

press and hold LEFT button on the

Setting up time of switching to

In this menu selection, you can set up

time of switching to sleep mode (from 10 to 60 seconds) or to turn the mode

Sound settings

dose threshold.

In order to choose the unit, press □ (> 531 COI CO

□ 0> 15:30

Setting up time of automatic switching

In this menu selection, you can set up time of automatic switching off (from 1 to 60 minutes) or to turn the mode off.

In order to choose the unit, press LEFT SECONDS and RIGHT icons on the display or LEFT AND RIGHT buttons on the display case. In order to confirm your noice, press SAVE icon on the display or OK button on the display case. In order to return to previous menu selection, press X icon in the upper left corner of the screen or press and hold LEFT button on the device case.

Date settings

In this menu selection, you can set up current date. In order to choose the unit, press LEFT and RIGHT icons on the display or ^{3y} LEFT AND RIGHT buttons on the function is turned off, it is necessary to press and hold RIGHT button, in order to switch between day/month/year. In order to confirm your choice, press on the display case. In order to return to previous menu selection, press X icon in the upper left corner of the screen or press and hold LEFT outton on the device case.

Time settings

In this menu selection, you can set up current time.

n order to choose the unit, press LEFT and RIGHT icons on the display or LEFT AND RIGHT buttons on the display case. When touchscreen function is turned off, it is necessary to press and hold RIGHT button, in order to switch between hours and minutes order to confirm your choice, press SAVE icon on the display or OK button on the display case. In order to return to previous menu selection, press X icon in the upper left corner of the screen or press and hold LEFT button on the device case.

Switching off touchscreen

In this menu selection, you can switch on the touchscreen.
The setting is performed by pressing
«✔» icon on the display or LEFT and
RIGHT buttons on the display case. When touchscreen function is turned off, it is necessary to press and hold RIGHT button, in order to switch between hours and minutes. In order to confirm your choice, press SAVE icon on the display or OK button on the display case. In order to return to

Switching to nitrate measurement

mode after taking off the probe cap

In this menu selection, you can change

to nitrate measurement mode after the

The setting is performed by pressing «✔» icon on the display or LEFT and

it is necessary to press and hold RIGHT

button, in order to switch between hours and minutes. In order to confirm your

choice, press SAVE icon on the display

selection, press X icon in the upper left

corner of the screen or press and hold

or OK button on the display case. In

order to return to previous menu

LEFT button on the device case

RIGHT buttons on the display case

probe cap is taken off.

previous menu selection, press X icon in the upper left corner of the scree or press and hold LEFT button on the

Technical support



In order to replace batteries, first you must hook the battery cover in the upper part of the device case using a screwdriver. Then, you must take off the battery cover by sliding it down. You must take the battery's polarity into consideration. + And – symbols are written on the device's printed circuit. After replacing the battery, you must place the battery cover back by sliding it from the bottom-up. Afterwards press it until it clicks into place.



