

# FRESH RESULT

## 2 SYSTEMS<sup>PLUS</sup>



**Underground  
Water Detector**

### **User's Manual**

This product enables you to detect the presence of underground water.



**GER DETECT**  
WWW.GERDETECT.DE

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# Critical Warning

- Please be sure that all precautions taken against risks
- Do not use your device while it is raining or on extremely wet floor
- You have to be sure you are connecting the electric cables correctly
- You have to use the tall probes and you have to install it under the ground more 50 CM.
- And don't install the probes into the rocks.
- Turn on your device after you make sure that all parts are in place
- Make sure that the device battery is fully charged before searching
- If the battery start to give a peep sound, close the device and recharge the battery
- It is recommended to read the user manual before start working on the device to understand everything and to avoid mistakes doing the search
- After the device start make sound and turn off automatically put the battery on charge and do not try to start the device without charging the battery
- About the fresh result long range system when the green light in the charger that is mean the charge is full.
- And about the geophysical system when the green light in the device that is mean the charge is full.
- Be aware of high voltage resources, and do not use any charger other than the original charger that come with the device
- Main unit of the device is under warranty against all electronic breakdowns for two (2) years any damages caused by user errors (laying open the main unit, hits, harms etc.) are not within this warranty
- Battery and antenna are also not within this warranty
- You should follow the instructions in this user manual strictly to minimize the faults and to use your device correctly

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**“Warning”:** when we send the device to the customer, we release the battery cables because the international shipping laws, so you have to connect the battery cable into the geophysical device.



# OVER VIEW

***Dear customer,***

“Thank you for choosing FRESH RESULT 2 systems”

- ✓ This product enables you to detect the presence of underground water.
- ✓ FRESH RESULT 2 systems product is based on resistance principle.
- ✓ It measures the resistance between surface electrodes placed on surface of the region predicted to have water.
- ✓ It compares the measured values with the highest background values and makes analysis.

## 1- LONG RANGE SYSTEMS

This system specializes to cover vast areas and locate the water up to depths up to **1200** meters below the surface of the ground and Front Range up to **2,000** meters.

The transmitter unit: the main unit of the device is placed on the ground in the middle of the area to be discovered, we installed the antenna of the transmitter signal to the main unit and Space probes on "5" meters from each other and connect them to the device.

Then we turn on the device and select a language **"for example English"**

- When we choose a language the device will take you directly to the **"main menu"**



### MAIN MENU



*(main menu screen)*

- Click on **"searching systems"** which contain two search systems:

- 1. The long range system**
- 2. geophysical system**

### PLEASE SELECT SEARCH SYSTEM



*(search systems screen)*



- We move between systems search through navigation buttons and we select the “long range system”
- This screen tell us to **“turn on”** the portable unit



*(information screen)*

- The screen shows us search signal, which shows that the device sends signals to the ground to search for water

- Then we move on to the receiving unit which works on Digital screen through which you can determine the extent to the front to be accessible



*(main unit – long rang system)*

## Description the main unit keys – LONG RANG UNIT



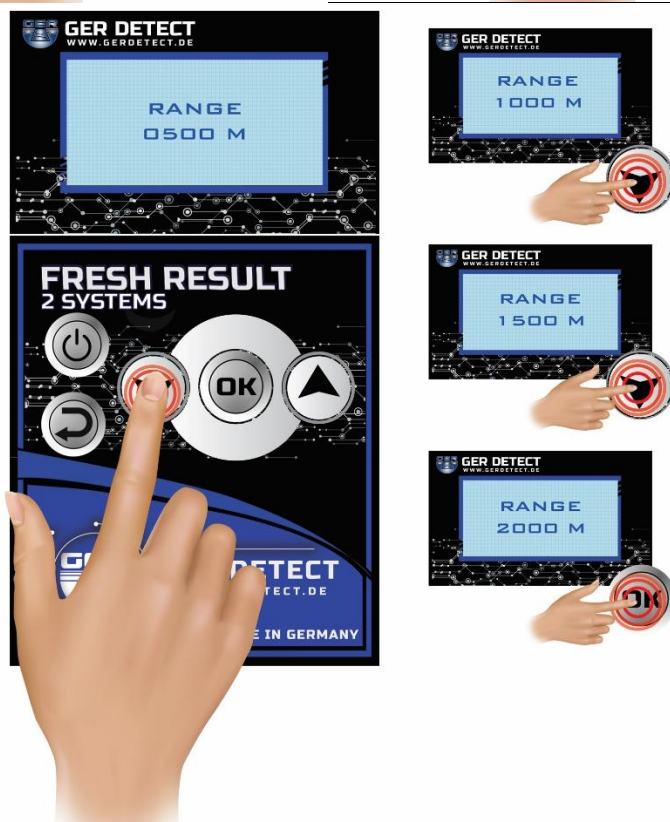
Keys Description	
1	Navigation button
2	Selection button
3	Power button
4	Back button



- We run the device through the power switch **"ON – OFF"**

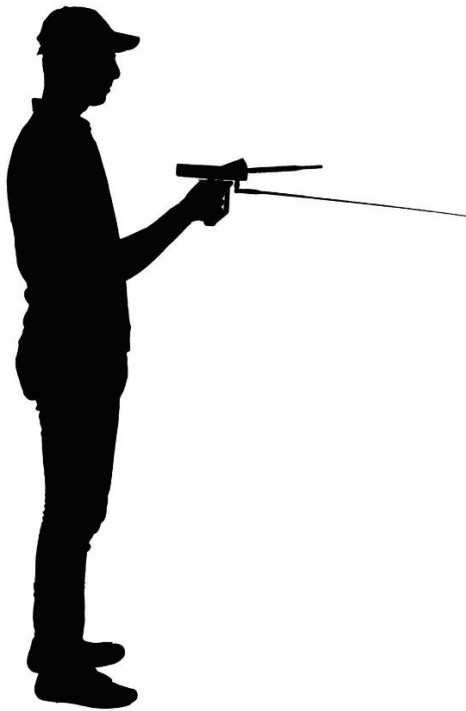


- We move between systems search through **“navigation buttons”**
- We choose the language you want to work on it through the **“OK buttons”**



- Then we choose the Front Range
- We move between front range through **“navigation buttons”**
- so you can choose **between**
  - ✓ 500 meters
  - ✓ 1000 meters
  - ✓ 1500 meters
  - ✓ 2000 meters
- Press **“OK BUTTON”** to select front range.





- After selecting, the front-range the device will Begin the process of search.
- Carry the device as photo.

- The user should position them self from the north to the south which is the best method to detect underground water.
- As When detect any presence of water within the Specified range on the device the device will Track the signal and take you directly to the water location point Under the ground thus, this system will be finish
- Now go to the geophysical system for more details about the detected target to know the depth and salinity, and the type of water and the density of water.
- After detecting the target, conform the target from for direction
  - *“North to South”*
  - *“South to North”*
  - *“East to West”*
  - *“West to East”*



**“Note”**

If the antenna is open to the maximum the device will guide you to more than a place where water exists, so must shorten the antenna to the minimum.

## 2- Geophysical system

This system allows you to discover more details about the discovered water after using the long-range system a survey and analysis of the underground water and the way the system works in the following way

### Description the main unit keys – Geophysical system



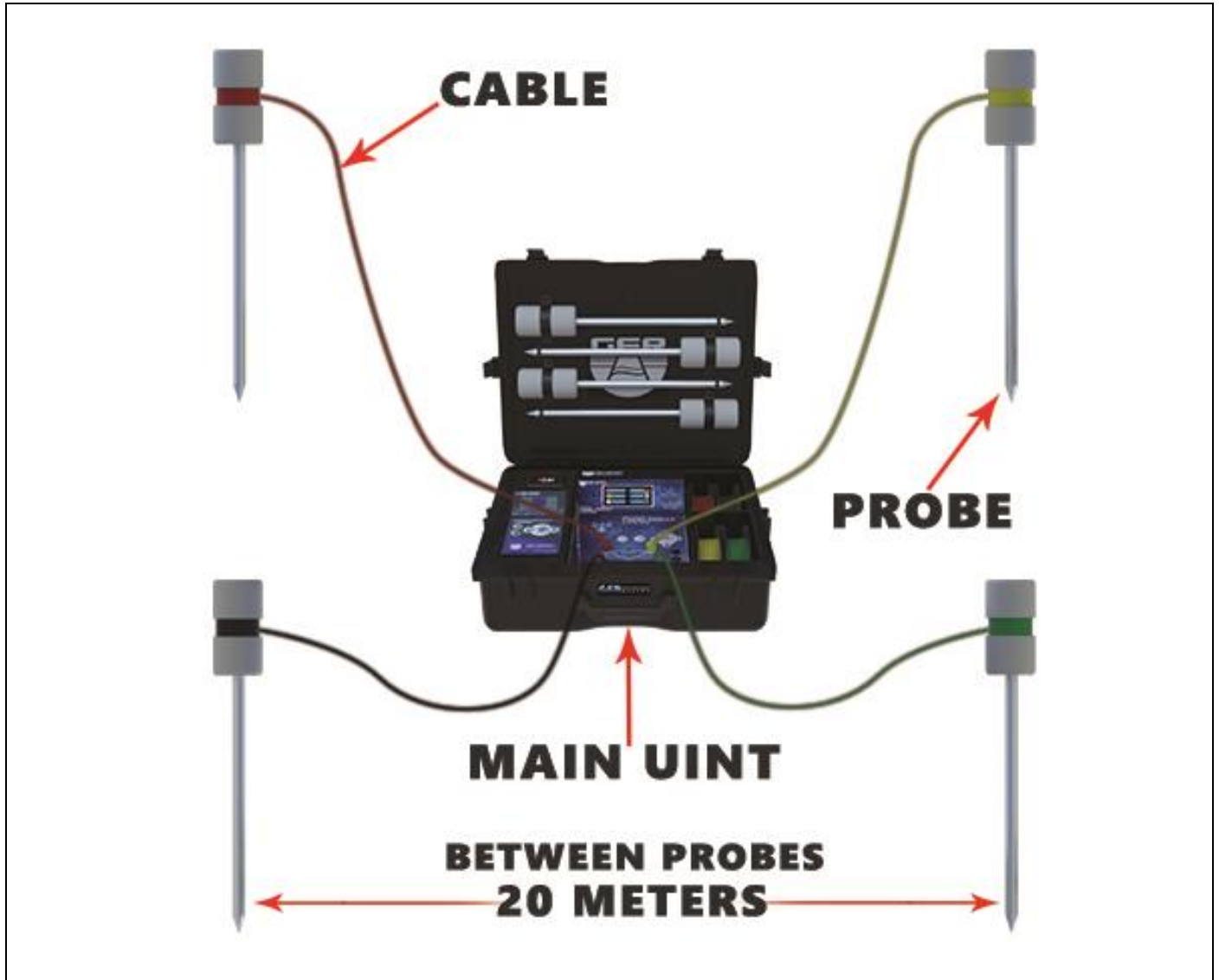
Keys Description	
1	Screen for result display
2	BACK button to return back
3	Ok button to conform the options
4	Navigation buttons between the options
5	Fuse to protect the electronic circuit
6	Battery entrance for 12 v
7	Power button to open the device.
8	The transmitter antenna entrance for the long range system
9	4 entrance for the cable that contact the device with the probe
10	RESTART button to make restart

### Start working with the geophysical system

#### First step:

- ✓ plant probes, installation of cables
- ✓ Implant the probes in the soil even **85%** minimum of the length of the probes to get an accurate result the distance between the probes should be **20** meters at the start of the search.
- ✓ When you do a search if the device given results no water, for example: (probes between 1 and 2, then we must bring probes 1 and 2 toward probes 3 and 4, a distance of one meter and re-search process)
- ✓ At the beginning of the search connect the cable between the probes and the main unit of the device and make sure the plug correctly as shown in the following picture

**“NOTE”** make the distance between the **4** probes equal



## Second step:

- please turn on the device and wait for a period of not more than 5 seconds until the device initiates action and show the working language of the device



- The device works on 4 languages, namely:  
English. French. Arabic. Germany  
In addition, you can choose the appropriate language search by navigating up and down keys



- After selecting, the language you want to work on the device will take you directly to the main menu, which contains

1. Search systems
2. Setting

### MAIN MENU



- “**Search systems**” to select the systems that you want to use it for searching; the device has two search systems.

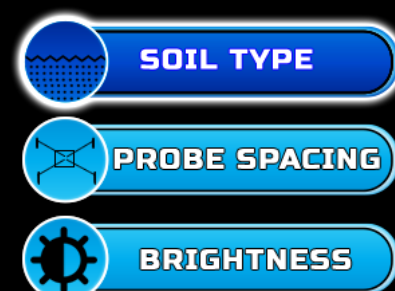
1. Geophysical system
2. Long range system

### PLEASE SELECT SEARCH SYSTEM



- “**Setting**” help you to adjust device settings, the device has three choices:

1. Soil type
2. Probe spacing
3. Brightness



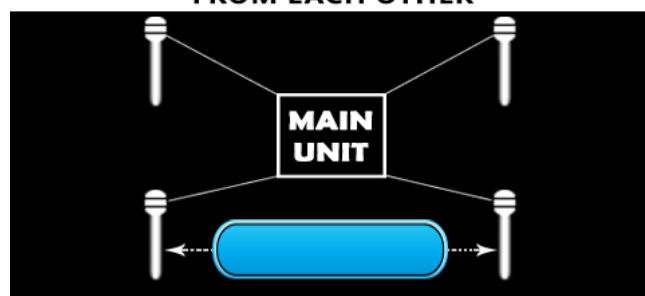
- **“Soil type”** determine the type of soil in which to search

### PLEASE SELECT SOIL TYPE



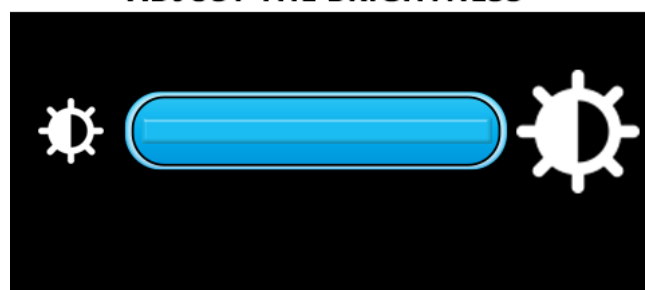
- **“Probe spacing”** determine the distance between the probes

### PLACE THE PROBE ON EQUAL DISTANCES FROM EACH OTHER



- **“Brightness”** determine the lighting of the screen

### USE RIGHT AND LEFT BUTTON TO ADJUST THE BRIGHTNESS

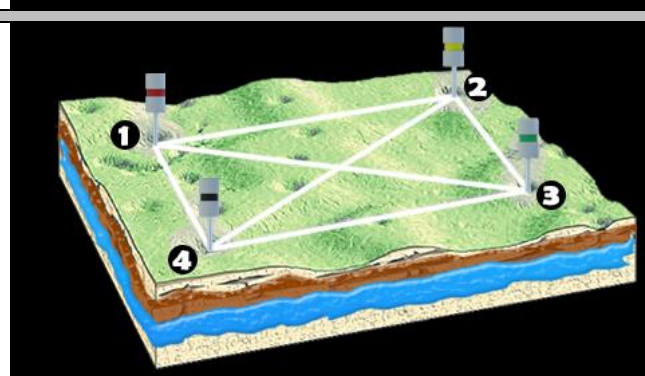


- After selecting the settings, we return to the previous menu, by pressing the **OK** key in order to confirm the settings that we choose them before

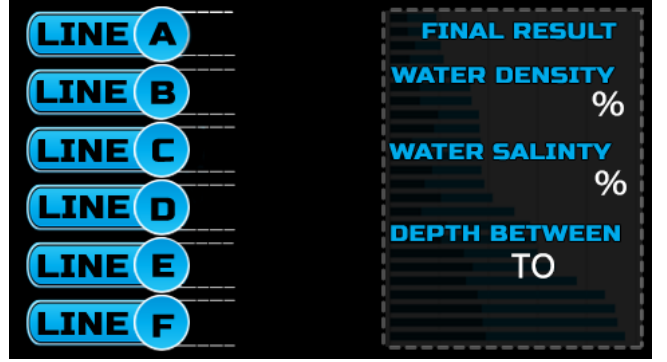
### MAIN MENU



- Start the search by clicking on the choice start scan, which will make the device search between the four probes. This process takes a maximum of 3 minutes, since the device is searching among the four sensors in 6 different way together all information.



- When the search process end the device will show you the results as photo next side
- In the event of water under all probes you will see report on the device will appear from which you can learn the where about of water And the type of water as shown in the picture



**“Note”**

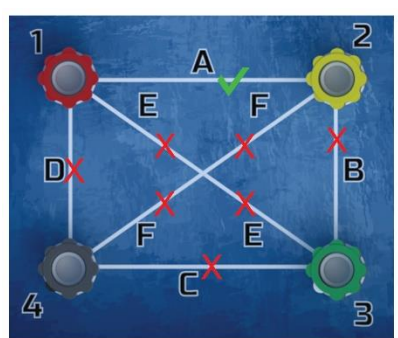
When the water percentage is less than **50%** that means small amount of water, and when the percentage is between **50-70%** is a good amount of water, and when the percentage is between **80-100%** that means the water amount be huge



# NO RESULT

➤ Dear customer,  
When a **"No result"** message appears on the final search screen  
Please read this information carefully

## First case



- LINE A** Fresh Water
- LINE B** No Water
- LINE C** No Water
- LINE D** No Water
- LINE E** No Water
- LINE F** No Water

**FINAL RESULT**

**WATER DENSITY**  
1 %

**WATER SALINITY**  
0 PPM

**DEPTH BETWEEN**  
**FEW DATA**

THIS MESSAGE WILL APPEAR ON THE SCREEN

- Device did not find water in search area.  
- OR Probes are not connected with device.

PRESS "RESET" BUTTON TO SEARCH AGAIN

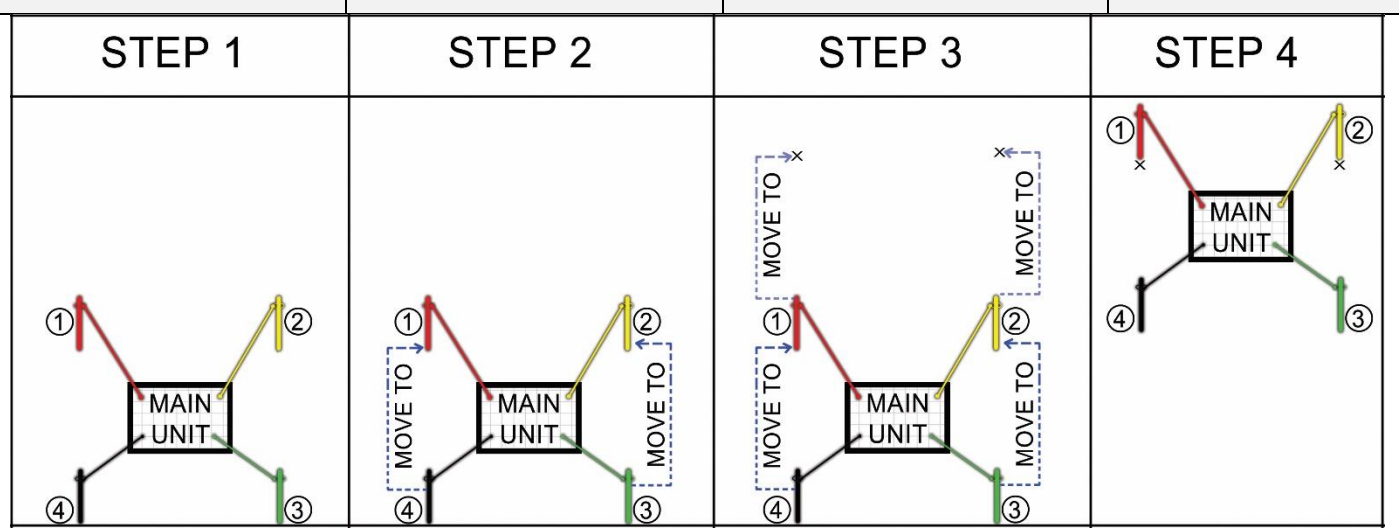
## The solution of this case

That mean the device found water On line "A" Just

- 1- Move the probe "3" From its current location To the location of the probe "2"
- 2- Move the probe "4" From its current location To the location of the probe "1"

- 3- Redistribute probes "1" , "2" Depending on the new location for probes "3" ,"4"

4- Re-search again

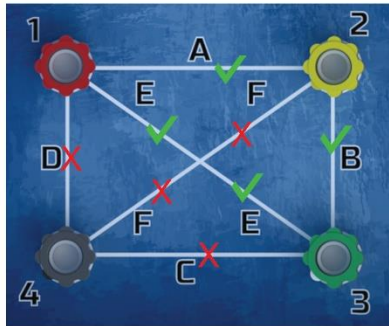






# NO RESULT

## Second case



- LINE A** Fresh Water
- LINE B** Fresh Water
- LINE C** No Water
- LINE D** No Water
- LINE E** Fresh Water
- LINE F** No Water

**FINAL RESULT**  
**WATER DENSITY** 1 %  
**WATER SALINITY** 0 PPM  
**DEPTH BETWEEN**  
**FEW DATA**

THIS MESSAGE WILL APPEAR ON THE SCREEN



## The solution of this case

That mean the device found water On **line "A" , line "B" and line "E"** Just

- 1- Determine the center of triangle which consist of lines "A","B" and "E"
- 2- Move the probe "4" From its current location To the triangle's center.

- 3- Redistribute probes "1" , "2" and "3" Depending on the new location for probes "4"

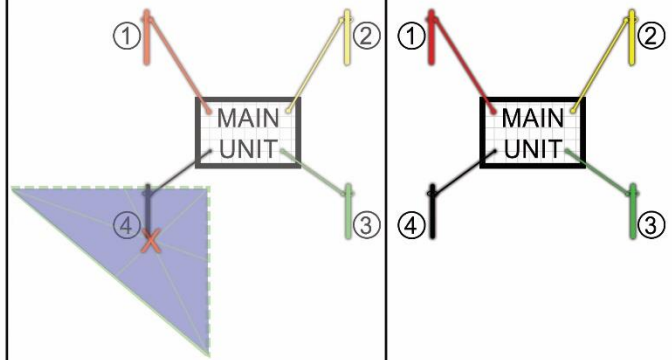
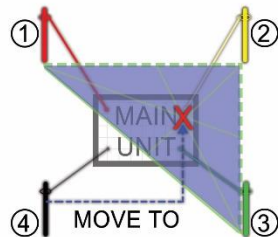
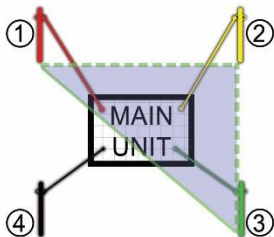
- 4- Re-search again

### STEP 1

### STEP 2

### STEP 3

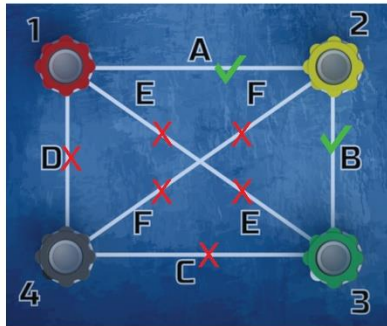
### STEP 4





# NO RESULT

## Third case



- LINE A** Fresh Water
- LINE B** Fresh Water
- LINE C** No Water
- LINE D** No Water
- LINE E** No Water
- LINE F** No Water

**FINAL RESULT**

**WATER DENSITY** 1 %

**WATER SALINTY** 0 PPM

**DEPTH BETWEEN**

**FEW DATA**

THIS MESSAGE WILL APPEAR ON THE SCREEN



## The solution of this case

That mean the device found water On line "A" and line "E" Just

- 1- you can Follow the steps described in the "First case"
- 2- Or you can Follow the steps described in the "Second case"

3- Or move the probe "4" From its current location To the location of the probe "2"

4- Redistribute probes "1" , "2" and "3" Depending on the new location for probes "4"

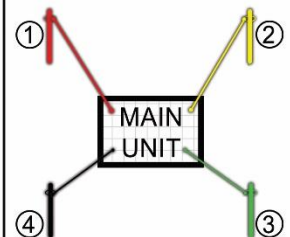
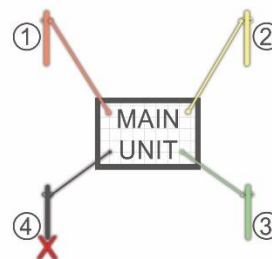
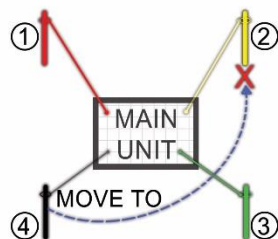
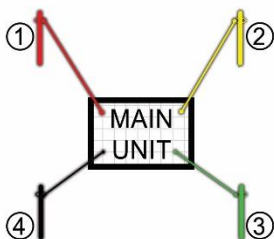
5- Re-search again

### STEP 1

### STEP 2

### STEP 3

### STEP 4





## “Important information and notes”

- ✓ If the device give you “**no water**” in the search this mean two thing
  - 1- Could be the cable not connect correctly.
  - 2- could be the device had detect very salty water
- ✓ The difference that appears in the depth of the water (such as **80 > > 154**) represents the depth underground water.
- ✓ If using another battery charger, preferably **12 to 15 v** no more and no less, that the value of amps (**2**) and if you use a charger amp more will be the battery faster but will have less battery life.
- ✓ Probe is then limited to a distance of **20 m** between the probes in case of find of water.
- ✓ If the distance between the probes **20 m** you have to adjust the distance from the sitting
- ✓ If the device give you on the screen few data about the depth
- ✓ You have to research in the same place to get the depth
- ✓ If the density of the water from **0% to 50 %** that means the water in small quantity in this area / **50 to 60 %** = medium quantity / **70 to 80 %** = good quantity / **80 to 100 %** = huge quantity.
- ✓ When the device gives you the salty water are salty and when it gives you fresh water with simple percentage salinity, this is the normal situation. All kinds of water containing salinity
- ✓ For salinity: the percentage of salinity is 10,000 parts per million **Example** (**40%** means **4000** parts per million and **100%** is **10,000** parts per million means that the water is salty and invalid) The percentage makes the conclusion of salinity easy.
- ✓ When you see the depth in the results, for example: (**110-130 meters**) and you re-experience and the depth appear, for example, (**120-160 meters**) or (**40-170 meters**) that is mean there is more than a water channel under the ground (there are several Water channels with different depths at the same place
- ✓ if you made several experiments in the same place and the depth was similar in all the experiments that is mean there is a water basin and not stream water
- ✓ If you want to confirm the target once again in the same place, you must take off the floor probes and change the place of the probe to other place at least one meter
- ✓ To remove accumulation of charge as a result of the passage of the stream
- ✓ To decompose water into oxygen and atomic+ hydrogen through the search process.
- ✓ If this screen appear as in the next figure, do not enter random numbers, Just press on (**OK**) button for 5 seconds and the device will pass this screen and continue working normally.
- ✓ You should avoid using the machine during rain and must wait for **15 days** at least after the rain stopped until the soil dry out then you can use the device



## “Important information and notes”

- ✓ Suppose the existence of drilled water wells in your area and work well and starting at depths of **10** meters or **50, 100** or **120, 140, 160, 170** meters etc. .... this is not conclusive evidence of existence of water only on these depths. It could be at great depths.  
That means the final result of depth on the device screen is the real depth of huge amount of water.
- ✓ **Example:** If it is proved you through the search process device that the depth of this places from **200** to **240** meters this indicates the existence of water is truly at these depths.
- ✓ As for the drilled wells and works depths less than **200** meters with very short life, so must re-restored and drilling to the depth that the device showed.





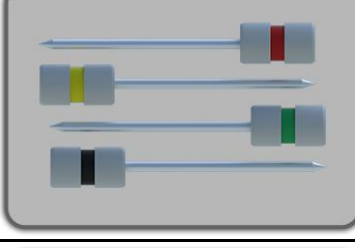



# Warning

If you want the device work well without errors you have to follow next steps

<p>When using the device please do not wear the watch</p>	
<p>When using the device please do not wear the jewelry</p>	
<p>When using the device please get away from metal, lighter and mobile phone</p>	
<p>Please take off the belt</p>	
<p>The shoes should not contain any metal</p>	
<p>Stay away from the car</p>	
<p>Stay away from electrical ground power lines or any surfacing electric</p>	

## Parts and accessories

	<p><b>Geophysical system (main unit )</b></p>
	<p><b>Long rang system (complete)</b></p>
	<p><b>Charger</b></p>
	<p><b>Four Cables for Geophysical system</b></p>
	<p><b>Probes (65 cm)</b></p>
	<p><b>External battery</b></p>