

To reset the detector to factory settings (and remove the detector from the SCP settings if the detector is connected to the SCP), press, and hold for 6 seconds the "Start" button (5) and after double sounding of the buzzer – release the button. After deleting, the detector switches off.

The detector also provides measurements of temperature, the signal level of communication with the SCP, and battery charge. These values are constantly monitored by the detector and transmitted for display in the Control NOVA II software.

In search mode, the buzzer of the added detector sounds 15 times with an interval of 1 second after receiving a command.

5 PACKAGE CONTENTS

After unpacking, visually inspect the detector to make sure it does not have mechanical damage, check the completeness according to the table below.

Table 5.1 – Package contents of the detector

Name	Quantity, (pcs.)
X-Water detector	1
User manual	1
Battery CR2450 (pre-installed)	1

ATTENTION! The characteristics and package contents of the detector may be changed by the manufacturer without additional notification.

WARNING - KEEP OUT OF REACH OF CHILDREN!



If the battery is swallowed or placed inside any part of the body, it can cause severe or fatal injuries within 2 hours. Seek medical attention immediately.

6 REGULATORY COMPLIANCE



Hereby, "Tiras-12" LTD declares that the radio equipment model X-Water is in accordance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: tiras.technology.

The X-Water detector is designed so that it can be operated as intended in the EU countries, without violating the applicable requirements for the use of the radio spectrum.

The X-Water detector has no restrictions on commissioning in EU countries and does not require obtaining a permit for use.

The X-Water complies with RoHS Directive 2011/65/EU.



In accordance with the EU Directive 2012/19/EU on waste electrical and electronic equipment, the detector should be disposed of separately from household waste. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.



In accordance with EU Directive 2006/66/EC, batteries (included in the product) should be disposed of separately from household waste. For proper recycling, return the battery to your local supplier or dispose of it at designated collection points.

7 WARRANTY OBLIGATIONS AND REPAIR INFORMATION

The manufacturer guarantees compliance of the detector with the declared characteristics during the warranty period of operation and under the conditions of transportation, operation, and storage.

The warranty period is 36 months and is valid from the date of sale specified below or in other accompanying documents (contract, invoice, etc.). If you do not provide a document confirming the date of sale of the detector - the warranty period is calculated from the date of manufacture of the detector.

(date of sale) (seller's signature) seller's stamp

The detector is repaired by the manufacturer or its authorized representative. The detector is repaired for free in case the warranty period has not expired, and it was operated in accordance with the accompanying documentation. For repairs, the detector is sent together with the document, which indicates the date of sale, and with a letter stating: the nature of the fault, the place of operation, and the contact person for repair.

If the detector is not working properly, please contact technical support first, perhaps this problem can be resolved remotely.

The date of manufacture of the detector and/or its serial number are indicated on the detector label and packaging.

Information about limitation of liability is available in the "Warranty" section on the website: tiras.technology



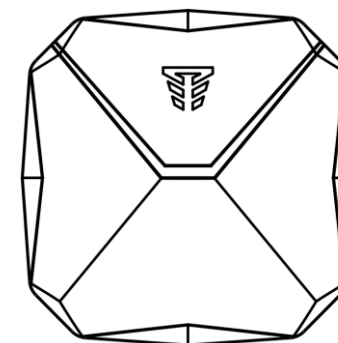
8 CONTACTS OF THE MANUFACTURER

"Tiras-12" LTD, Ukraine, Vinnytsia,
Khmelnyskoho Shose lane 2, b. 8

Sales department: market@tiras.ua

Technical support: support@tiras.ua

Warranty and post-warranty service:
otk@tiras.ua



X-Water

Wireless leak detector

User manual



"Tiras-12" LTD
Ukraine, Vinnytsia,
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More information on the site
tiras.technology

1 GENERAL INFORMATION

X-Water – is a wireless leak detector (further – detector) designed to detect water leaks in residential and non-residential premises. Water leak is detected by sensors (terminal pairs) located on the back cover of the case (3 in Fig.3.1, b).



Leak sensors only detect conductive water and are not suitable for use with distilled and deionized water.

- The detector has some options to filter false alarms:
1. Verification of the number of sensors that were activated due to water ingress.
 2. The "Water leak" alarm is generated with a delay of 2 seconds after water ingresses the sensors.

The notification "Water leak fixed" is generated along with a test notification when the water on the sensors dries. The detector makes buzzer sounds when it is turned over or displaced.

The detector is intended for operation with Orion NOVA X security control panel (further – SCP), Orion NOVA X (LTE) and compatible with Orion NOVA S (LTE), Orion NOVA M (LTE), and Orion NOVA L (LTE) SCPs with installed M-X wireless expansion module.

The detector is intended for continuous 24-hour work on premises with regulated climatic conditions without the direct influence of climatic factors of the external environment. It transmits the alarm to the SCP regardless of the system's state (armed or not).

2 SPECIFICATIONS

Specifications of the detector are shown in Table 2.1.
Table 2.1 – Specifications of the detector

Parameter	Value
Sensor type	Nickel-plated terminals
Radio frequency range, MHz	868.0-868.6
Maximum transmitter power, mW	25
Maximum bandwidth of the channel, kHz	100
Maximum deviation of the channel frequency, kHz	6
Encryption	AES
Maximum range of radio communication in open space and in the absence of radio interference, m	1500
Battery, lithium battery, Supply voltage, V	1×CR2450 3
Overall dimensions (L×W×H), mm	63×63×15
Protection class	IP65
Weight, g	32
Operating temperature range	from 0°C to +40°C
Relative humidity	up to 100%
Average battery life, years ¹	5
Average service life, years ²	10

Notes. 1. Depends on settings and operating conditions.
2. Does not apply to the battery.

3 PREPARATIONS FOR OPERATION

The detector is installed on a surface in a place where water is most likely to appear (kitchens, bathrooms, toilets, boiler rooms, etc.) in case of an emergency leak.
When choosing the place of installation, you need to determine the lowest point of the surface, where the water will flow in case of a leak.

Do not install the detector:

- Outdoors or in areas where the range of humidity and temperature is outside the detector's acceptable limits;
- Near sources of powerful electromagnetic radiation and in places with high levels of radio interference.

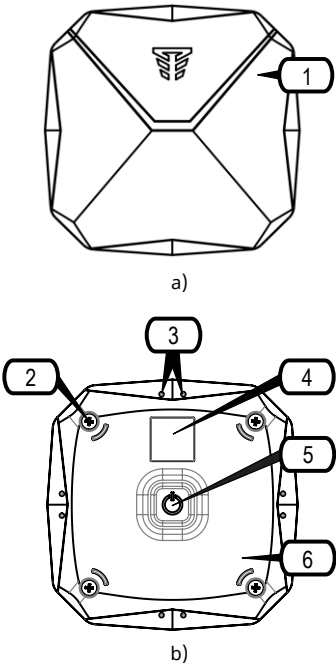


Figure 3.1 (a, b) - Appearance of the detector elements

- 1 – front cover of the case; 2 – case screw;
3 – terminal pair; 4 – QR code for assigning;
5 – "Start" button; 6 – back cover of the case.

Caution:

1. Printed circuit board of the detector contains static-sensitive components. To avoid damage to sensitive components before handling any boards you should discharge static electricity in your body by touching the ground.
2. Battery replacement must be performed by qualified personnel. The battery must be connected properly according to its polarity.

3. To ensure the safety of the device and the declared characteristics, it is not allowed to replace the battery with another type.
4. It is not allowed to use battery with visible damages.
5. The manufacturer is not responsible for the results of incorrect battery installation.

Battery replacement:



During replacing the battery, do not wipe the silicone from the sealer between the front and back cover of the case, this may lead to deterioration of the device's sealing.

1. Unscrew four screws (2) and remove the front cover from the back.
2. Replace the battery according to the polarity indicated on the board.
3. Assemble the detector in reverse order.

Maintenance of the detector:

1. At least once a quarter, check the functionality of the detector by wetting the sensors (3) with water (delay of 2 seconds).
2. Inspect the detector regularly and, if necessary, clean its case and sensors from dirt with a damp sponge or rinse under running water. After cleaning, wipe the detector with a dry cloth. Do not use harsh chemicals or concentrated detergents.
3. After the "Water leak" alarm is generated, wipe the detector case, sensors, and installation site with a dry cloth.

Each detector has a unique serial number, which is contained in the QR code and duplicated below it. The QR code with the serial number is located on the back cover of the detector (6 in Fig.3.1, b) and duplicated on the package.

The serial number is used to assign the detector to the SCP by means of oLoader II or Control NOVA II software.

4 OPERATION WITH THE DETECTOR

To work with the SCP the detector should be added to the SCP settings. The detector is added after sequential assigning and activation processes. When adding the detector to Orion NOVA X SCP/Orion NOVA X (LTE) SCP using oLoader II software, the assigning and activation processes occur automatically by doing the following: scanning the QR code and pressing the "Start" button (5).

When adding the detector to Orion NOVA S (LTE), Orion NOVA M (LTE), Orion NOVA L (LTE) SCPs, it is necessary to add the detector to the SCP settings and do the following:

1. The detector is assigned to the SCP using oLoader II software (creating a new wireless zone and entering the detector serial number) or Control NOVA II software (entering the detector serial number for the previously created wireless zone in the

oLoader II software). Assignment and adjustment (time parameters for test messages, number of missed tests, etc.) of the detector is carried out by the operating documentation on the SCP.

2. After successfully assigning the detector to the SCP it is necessary to activate the detector (switching on, exchanging settings, and switching to operating mode with the SCP). To activate the detector, first enable the activation mode on the SCP, and then briefly press the button (5). Activation of the detector lasts up to four seconds and is accompanied by a sounding buzzer with a period of 0.5 seconds. This operation mode of the SCP can be enabled using the Control NOVA II software by clicking the appropriate button in the "Wireless Devices" tab of the required wireless zone from the list of available.

Other ways to switch the SCP to activation mode (by means of the keyboard, after switching on the SCP) are described in the user manual on the appropriate SCP. A description of the detector indication after activation is given in Table 4.1.

Table 4.1 - Description of the detector indication after activation

Indication	Activation result
Three buzzer sounds	The detector was activated and added to the SCP successfully.
Two buzzer sounds	Activation failed. The detector's serial number does not match the serial number entered in the SCP settings.
One buzzer sound	Activation failed. The detector is not within range of the wireless network, or the SCP is off or not in activation mode.

3. Water leak verification is configured using the mode "Confirmation of water leak" in the oLoader II software. By default, verification is disabled, so a "Water leak" alarm will be generated when water gets on any pair of sensors. Disabled "Confirmation of water leak" mode is recommended for premises where moisture should not occur under normal conditions. If the detector is installed in a room where accidental water ingress (splashes, etc.) is possible, select the mode "Confirmation of water leak" to filter out false alarms. In this mode, the "Water leak" alarm will be generated when any two pairs of sensors are triggered.

4. To switch off the detector, press and hold the "Start" button (5) within 3 seconds, and after the second buzzer sound, release the button. The buzzer sounds again after executing the detector shutdown command.

Briefly press the "Start" button (5) to switch on the detector. If the detector has been added to the SCP before switching off – the buzzer will sound three times. If the detector has not been added to the SCP, the activation process described above will start.

The detector can be removed by both the installer and the administrator of the Control NOVA II software in the "Wireless Devices" tab, and only by the installer using the display keypad.