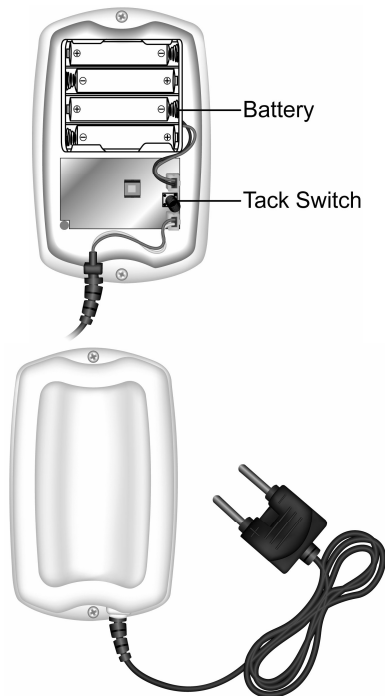


Water Sensor (HA2000W)

Water Sensor is specially designed to detect if the water level is above a certain level that may damage your protected goods.



● Getting Started

- Step 1.** Remove the cover by losing the two fixing screw on the top and bottom of HA2000W
- Step 2.** Insert 4 of AAA Alkaline batteries in the battery compartment
- Step 3.** Program the Control Panel by selecting “**Device +/-**” menu, then “**Add Devices**” sub menu,
- Step 4.** Press the Tack Switch to send the learn code to the Control Panel.
- Step 5.** The Control Panel will detect the Water Sensor. It then ask to assign the zone number and the screen will show you the successfully added device.
- Step 6.** Press “OK” on the Control Panel and follows its settings to complete the Learning-In process. Refer to the operation manual of your control panel under the section of “**Device +/-**” to complete the learn-in process.
- Step 7.** The Learning-In process is now completed.
- Step 8.** After the HA2000W is learnt-in, put the Control Panel into “**Walk Test**” mode, hold the HA2000W in the desired location, and press the Test button to confirm this location is within signal range of the Control Panel.
- Step 9.** When you are satisfied that the Water Sensor work in the chosen location, you can proceed with installation.

● Mounting Method

The base has two knockouts, where the plastic is thinner for mounting purpose. To mount the

HA2000W:

- Remove the screw to separate the top cover from the base.
- Break through the two knockouts on the base where the plastic is thinner.
- Using the 2 knockouts on the base as a template, drill two holes in the surface.
- Insert the wall plugs if fixing into plaster or brick
- Clips the lid to the base
- Screw HA2000W to the wall
- Locate the plastic clip and remove the cover from the adhesive pad
- Fix the probes within the plastic clip and firmly press the clip onto the desired location.

Do not tighten the top cover’s screws; you might break the plastic cover.

● Normal operation

Mount the HA2000W on the wall whereas drop the black wire onto the floor level or any height that you want to detect the increasing water level.

- When the probes first come in contact with water, HA2000W sends out the alarm signal to the control panel.
- With water condition persisting for 2 more minutes, HA2000W sends the alarm signal to the control panel again.
- HA2000W sends a total of 2 alarm signals to the Control Panel per each water accident. HA2000W then enters Sleep Mode. This means that no matter if the water level increases, it will not trigger the alarm anymore.

<NOTE>

- ☞ After probes are no longer in contact with water, HA2000W sends a restore signal to the Control Panel indicating the water condition has been cleared. HA2000W then enters Normal Operation Mode.
- ☞ During the alarming period, whenever the water ebbs, HA2000W enters Normal Operation Mode.

● **Supervision**

When the HA2000W is in Normal operation mode, it will conduct a Self-test Periodically by transmit a supervisory signal once every 20 min to 50 min. If the Control Panel can't receive the Supervisory signals transmitted from a certain HA2000W, an "Out-Of-Order" fault message will be generated.

● **Power**

The HA2000W uses 4 AAA alkaline batteries as its power source. The battery is good for at least 3 years before it needs changing. HA2000W can also detect the low battery status. The Low battery signal will be detected with supervision at every 20 to 50 mins, it must detect the low battery signal for at least 10 times with a time interval of 10 minutes in between.

The low battery signal will be sent to the Control Panel along with regular signal transmission for the Control Panel to display the status accordingly.

● **Specifications:**

Common Technical Specification:

- Radio frequency: 868.6375MHz +-2.5ppm
- Modulation/ Demodulation: Narrow band FM @ 15KHz bandwidth with VCTCXO (Temperature compensated Crystal)
- Sensitivity: >105dbm @S/N +20db
- Transmission power: E.I.R.P. -8dbm +-3db
- Operation range: 300 meters in open space
- Code combinations: 16 777 216 codes
- Temperature range:-20°C +45°C
- Humidity: up to 90%

HA2000W

- Detection Mode : resistors
- Detection level : <350Kohm
- Weak battery detection
- Supervision: Random signals 30 min to 50 min
- Signal types: Detection, weak battery, Supervision and Test Mode
- Battery life: over 5 years. Alkaline batteries 4*AAA 1.5V
- Dimensions: 118*78*28
- Weight: 154g

● **Guaranty**

This product is guarantee 4 years except the batteries. The first year is by standard exchange. The 3 years left,

the guarantee is for parts and labours.

Please contact, the technical line, following your country, to confirm the default and the guarantee process.

France:

Eden: 0825 560 650
Web site: www.eden.fr



Holland:

Elro: 0900 208 8888
Web site: www.elro-nl.com



Belgium:

Dutch speaking

Elro: 070 2330031



French Speaking

Eden: 0033 825 560 650



Germany:

Elro: 0049 17755 24123



England:

Byron: 0845 230 1231
Website: www.chbyron.com



B 400/0000780/43 E B A T	Batterij vrijgesteld van milieutaks. Inleveren bij een Bebat-inzamelpunt. Pile exonérée d'écotaxe. A retourner à un point de collecte Bebat	WWW.ELRO.EU Roos Electronics bv, Postbus 117, 5126 ZJ Gilze, Holland WWW.ELRO-NL.COM - WWW.ELRO-BE.COM Roos Electronics GmbH Arnsberg-Germany WWW.ROOSELECTRONICS.DE EDEN, Antibes, France WWW.EDEN.FR C H Byron Corporation, Bromsgrove, U.K. WWW.CHBYRON.COM