

QHUBO

Wireless intrusion detection system



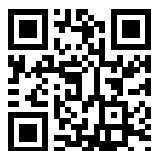
Addressee for this information: User | Installer

1 LINKS

Scan a QR code to reach the page of the related product on the www.elmospa.com website.

An easy registration is required.

Software and all the technical documentation are available on product page.



QHUBO
bit.ly/3vAn1ID



QHUBOWF
bit.ly/3RWGPXU

2 DESCRIPTION



QHUBO is a series of multi-functional control units that support wireless devices.

Main features:

- Management of 4 sectors, 8 users and 32 radio inputs.
- Integrated on the board: line One 4G module, Wi-Fi module (only mod. QHUBOWF), 1 mini-B USB port configuration.
- Compatibility with the Q-TX wireless technology.
- Compatibility with first-generation radio technology (protocols Helios and Villeggio).
- It can be connected to e-Connect software platform.

In addition, installing a CHQ2K hardware key:

- Compatibility with the NG-TRX wireless technology.
- Management of 32 outputs using actuators.
- Management of control devices (keypads, proximity key readers).

The user manual, this quick guide, screws and dowels for


wall mounting and the fixing screw for the optional QHUBO-BRK bracket are supplied with the control unit.

This quick guide gives a summary of the mounting and initial setup procedure for QHUBO series control units.

For complete and detailed information, please see technical and programming manuals available on www.elmospa.com website.

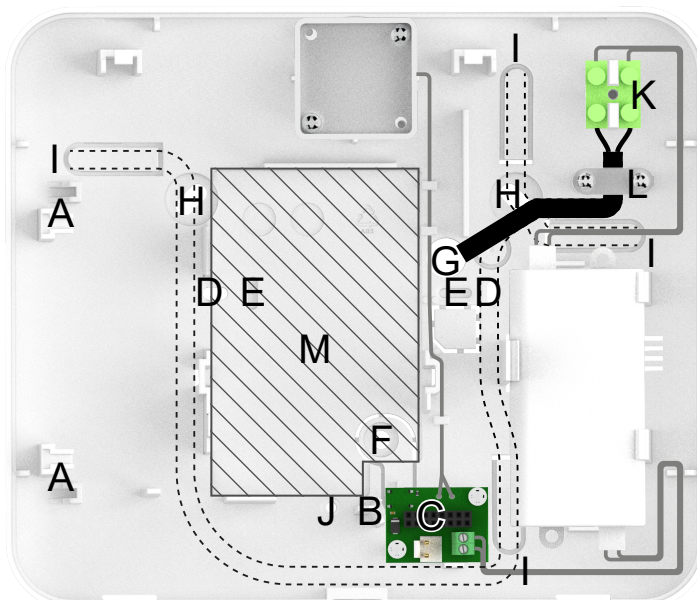
3 INSTALLATION



 Please see control unit technical manual for detailed information.

- loosen the cover closing screw
- remove the front cover

The image shows the control unit back without antenna and main board.



- remove the antenna, if any, from the A supports
- keep the C board pressed to the back of the case, press the top of the B turret with a thumb and lift the main board by pushing up the part around the turret from below

Keeping the turret pressed down limits the movement of the board and helps to avoid damaging the connector that connects the two boards.

The control unit can be mounted on a wall or on its desk stand.

Wall mount (with junction box)

- fit together the holes in the junction box and the D or E ones
- drill the wall at the F hole
- feed 230 V mains cable through hole G
- fix the back to the junction box and to the wall hole using the provided screws and dowels

Wall mount (power cable emerging from the wall)

- feed 230 V mains cable through hole G
- drill the wall at the H and F holes
- fix the back to the holes using the provided screws and dowels


Wall mount (power cable flush to the wall)

- open the pre-drilled hole I on the side where the cable comes from
- drill the wall at the H and F holes
- feed the 230 V power supply cable in the knocked out hole
- fix the back to the holes using the provided screws and dowels
- within the case, have the cable follow the paths marked in the diagram (if the cable enters from the left side, route it below the main board)

Installation with optional bracket mod. QHUBOBRK

- feed the 230 V mains cable through the conduit at the stand's back and through the G hole
- hang H holes to the upper hooks of the bracket
- fix the back to the bracket using the supplied screw (J)

Power wiring

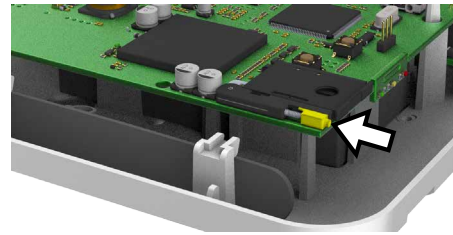
 *Make sure power source is disconnected.*

- wire mains cable to terminals K
- for installations with support bracket, secure the power source cable with the cable clip L
- place a B0.812G battery in the middle of the base (M)
- connect the battery to the 2-pin connector on the C board

Starting the device

- refit the board
- if connection via 4G module is required, insert a suitable

SIM card into the slot that opens by pressing the button in the bottom left corner of the board



- power the control unit
- configure the control unit as indicated in chapter 6 p. 3

During the configuration, sirens, actuators and keyboards are placed in learning mode.

- perform final system test
- close control unit case
- set sirens, actuators and keypads in operating mode

4 CONFIGURATION SOFTWARE INSTALLATION



The configuration of the control unit can be performed using one of the following configuration software:

- BrowserOne (suitable for installing several control unit models)
- QHUBOsetup (streamlined, suitable to installing QHUBO control units only)

BrowserOne installation

The first installation of requires BrowserOne an Internet connection.

- login to the www.elmospa.com website
- in the BrowserOne page, download the BrowserOne_[version number]_web.exe file, run it and follow the on-screen instructions
- from BrowserOne page, download [Control unit model]_[version number]_setup.exe file: launch it to install the module

QHUBOsetup installation

- login to the www.elmospa.com website
- from QHUBO page, download QHUBOsetup: launch it and follow indications on screen

4.1 Configuration software update

- open the configuration software
- make sure the PC is connected to Internet

Update BrowserOne and modules

- in menu bar, select **Tools**
- select **Software Updates**

In the newly opened window, available updates (both for BrowserOne and the respective modules) are highlighted in red.

- if the unit module is not on the components list, select

- **Add components**, select the component, then press OK
- click on **Perform Update**

Update QHUBOsetup

- press **Configurator update** and follow the on-screen instructions

5 READING AND WRITING



Note: During the configuration operations, there are two copies of the control unit's configuration, one stored in the control unit and one stored in the configuration software.

The configuration reading operation overwrites the software copy with that of the control unit.

The configuration writing operation overwrites the copy in the control unit with the software copy.

It is fundamental to keep the two copies aligned by performing:

- an initial reading operation;
- a writing operation each time you made a change from the software and you need to make changes from the control unit;
- a reading operation each time you made a change from the control unit and you need to make changes from the software;
- a final writing operation.

In QHUBOsetup, the following reading and writing operations are performed automatically when needed:

- initial reading (during connection);
- writing before device learning;
- reading after device learning;
- writing and reading while saving e-Connect's registration code.

The final writing operation has to be performed manually.

In BrowserOne, all the reading and writing operations must be carried out manually.

This makes it possible, for example, to intentionally overwrite the configuration in the control unit with one previously prepared using the software, or to perform all learning operations with a single writing before starting and a single reading when finished.

The procedures in the following chapters clearly indicate when to perform reading and writing operations.

6 BASIC CONFIGURATION



Follow the steps in the order given and the control unit will be set up ready to handle the essential functions of the intrusion detection system.

In any case, we recommend consulting the control unit programming manual and the manuals of the single devices for details on all the available configuration options.

- ▼ **1. Preliminary operations** → § 6.1 p. 3
- ▼ **2. Firmware update** → § 6.2 p. 3
- ▼ **3. Connect the unit to the configuration software** → § 6.3 p. 3
- ▼ **4. System partition** → § 6.4 p. 4
- ▼ **5. Learn a device** → § 6.5 p. 4
- ▼ **6. Configure zones** → § 6.6 p. 4
- ▼ **7. Configure a user** → § 6.7 p. 5
- ▼ **8. Assign sectors to a user** → § 6.8 p. 5
- ▼ **9. Configure radio peripherals** → § 6.9 p. 5
- ▼ **10. Configure outputs** → § 6.10 p. 5
- ▼ **11. Configure the telephone dialler** → § 6.11 p. 5
- ▼ **12. Connect the unit to e-Connect** → § 6.12 p. 6
- ▼ **13. Perform system tests** → § 6.13 p. 6
- ▼ **14. Final operations** → § 6.14 p. 6

6.1 Preliminary operations

- set sounders, actuators and keypads in operating mode, as shown in their manuals
- open the control unit housing
- connect the unit to the PC by using a mini-B USB cable (not supplied)
- wait for the COM port virtualization software to load, indicated by the appearance of a Windows system message

6.2 Firmware update

In BrowserOne

- in menu bar, select **Tools**
 - select **Firmware Update Panel**
- Follow displayed instructions.

In QHUBOsetup

- press **Home > Control Unit Firmware Update**
- Follow displayed instructions.

6.3 Connect the control unit to the configuration software

The following instructions describe the USB connection of the control unit to the PC where the configuration software is installed.

In BrowserOne:

- go to **Connect > Connect to...** menu
- choose the "Serial or USB" **Connection type**
- click on **Next**
- The Serial connection window will open.
- click on icon to update available communication ports
- select "EL.MO. Virtual COM" in drop-down menu
- select **Next**: the software will attempt to start the connection
- when the connection is fine, enter installer code (default 88888888) and select OK
- **BrowserOne**: read the configuration of the control unit

by pressing the relevant button on the command bar
The reading of the configuration allows the memory of the software to be populated with the data contained in the control unit; in this way, when the memory of the control unit is overwritten the original data are not lost.

In QHUBOsetup:

- open the **Serial port** drop-down menu
- click **Refresh** to update the available communication ports

Only the communication ports to which QHUBO control units are connected are shown.

- select the serial port corresponding to the control unit to be configured
- click **Connect**: the software will attempt to establish the connection
- once the connection has been established, enter the installer code (default 88888888) and click **Login**

The configuration reading happens automatically.

6.4 System partition

The control unit can manage up to 1 area with 4 sectors. Each zone can be associated to more than one sector.


In **Zones > Assign Area/Sector** page:

- select the row of the desired zone
- in the **Area 1 Sectors** column, select to which sectors to associate the input

Once the operations have been completed, write the configuration into the control unit by pressing the relevant button on the command bar (BrowserOne) or in the Home page (QHUBOsetup).

6.5 Wireless device learning

Note: it is recommended to visit pages **Zones, Users, Peripherals 434MHz and Peripherals Q-TX/NG-TRX**, and set the names of inputs, users and peripheral devices before starting the learning process; this will make it easier to identify to which input, user or peripheral device you are assigning the device to be learnt.

 *Do not perform any further configuration operations before reaching the configuration reading operation at the end of this section.*

- write the configuration to the unit selecting the relevant button on command bar
- enter page **Learn RADIO**
- select **Radio Technology** "Radio Q-TX/NG-TRX" for devices with protocol Q-TX or NG-TRX, and "Radio 434MHz" for devices with protocol Helios or Villeggio
- select the type of the device to be acquired

Note: VELAPLUS keypads are seen as remote controls.


- select a free **Device Index** (input, user or peripheral depending on device type)

Sirens, actuators, keypads

The **Put device into learning mode** message is displayed.

- follow the instructions for the specific device to ready it for learning
- press **Learning**

QHUBOsetup: the writing of the configuration takes place automatically immediately before the learning process.

 *Keep sirens and actuators in learning mode until this manual explicitly calls for their operating mode to be activated. Otherwise, they may activate as soon as they enter operating mode.*

Sirens with Helios or Villeggio protocol that should **not** activate in case of tampering event can immediately be all put into operation.

Detectors, remote controls, proximity key readers

- press **Learning**

The **Put device into learning mode** message is displayed

- follow the instructions for the specific device to end the learning

End of the process

The device model and communication channel list, if any, appear in the appropriate fields.

- press **Cancel** at any point to cancel the learning
- press **Confirm** (only available once the learning is successful) to save the settings in the control unit

QHUBOsetup: the configuration is read automatically when the **Confirm** button is pressed.

- **BrowserOne:** read the configuration of the control unit by pressing the relevant button on the command bar

6.6 Configure zones


A wireless device (detector, contact, ...) can be connected to each input.

- go to **Zones** page
- select the grid row corresponding to the zone (for example, if you are operating on zone 1 click on row 01)

In **General** tab:

- enter an identifying name in **Zone Name** field
- in panel **Zone Options**, assign properties to the zone by checking the desired boxes

Example: check **Exit Path** box if you want to include the zone into the exit path set for leaving the area within a set time.

 *For detailed information, please see programming manual.*

- repeat the procedure for all zones used

The **Connected** box is automatically ticked during learning, untick it to disconnect the device without unlearning it.

Once the operations have been completed, write the

configuration into the control unit by pressing the relevant button on the command bar (BrowserOne) or in the Home page (QHUBOsetup).

6.7 Configure users

- go to page **Users > General**
- select the row of the user desired (example: the row 01 for the user 01)

– enter an identifying name in **User Name** field

In **User Code** pane:

- click on **Change user code** to assign a 6-digit code to a user

– flag **Enable code from keypad**

In **User Options** pane:

- check **Basic Maintenance** to enable access to keypad user menu for the specific user

Once the operations have been completed, write the configuration into the control unit by pressing the relevant button on the command bar (BrowserOne) or in the Home page (QHUBOsetup).

6.8 Assign sectors to a user

It is possible to associate a different set of proposed sectors to each user.

One of the buttons on the remote control can only arm the proposed sectors, another button all the others.

For devices that allow the list of sectors to be modified during pre-arming, the sectors proposed are those initially proposed to the user for arming.

- enter page **Users > Sectors proposed**
- select the row of the user desired (example: the row 01 for the user 01)

– select the proposed sectors

Once the operations have been completed, write the configuration into the control unit by pressing the relevant button on the command bar (BrowserOne) or in the Home page (QHUBOsetup).

6.9 Configure radio peripherals

This screen contains the settings relating to sounders and actuators.


- access the **Peripherals 434MHz** page for peripheral devices with protocol Helios or Villeggio, and the **Peripherals Q-TX/NG-TRX** page for peripheral devices with protocol Q-TX or NG-TRX

– in the grid, select the row relating to the peripheral (e.g. if you want to operate on peripheral 1, select row 01)

Some editable parameters concerning this function may appear at the bottom of the page.

- for sirens with Q-TX or NG-TRX protocol that should not activate in case of tampering event, activate the **Do not activate for tampering** option

You can now set these sounders and actuators in operating mode.

 *For detailed information, please see programming manual.*

- go to **Options** page
- for sirens with Helios or Villeggio protocol that should activate in case of tampering event, activate the **Repeat tampering on general alarm** option

Once the operations have been completed, write the configuration into the control unit by pressing the relevant button on the command bar (BrowserOne) or in the Home page (QHUBOsetup).

6.10 Configure outputs

This screen contains the settings relating to actuator outputs. Outputs can only be controlled manually, from the Status or via e-Connect

- go to **Outputs** page
- select an output row (example: row 01 if you want to manage output 01)

– assign the "Manual control" output function to each of the relevant outputs: select it from the drop-down menu **Output function**

Once an output function has been selected, some editable parameters concerning this function may appear at the bottom of the page.

Once the operations have been completed, write the configuration into the control unit by pressing the relevant button on the command bar (BrowserOne) or in the Home page (QHUBOsetup).

6.11 Configure the telephone dialler

- go to page **Telephone Dialler > User Telephone Number List**
- enter phone numbers to send messages to (up to 16) in column **User Telephone Number**

Enable calls

- go to tab **Voice/Digital Dialler**
- flag **Activate Voice Dialler**
- select the row of the event for which the calls will be started
- in column **Associated Message**, select "Default"
- in column **Voice Phone Numbers Activation**, check the boxes (1 to 16) corresponding to numbers to call for such event
- repeat the procedure for all events desired.

Enable SMS

- go to tab **GSM Dialler**
- flag **Activate SMS Transmission Upon Event**
- select the row of the event for which SMS will be sent
- in drop-down menu **SMS Phone Numbers Activation**, check box(es) (1 to 16) corresponding to numbers to send SMS to

- repeat the procedure for all events desired.
- Once the operations have been completed, write the configuration into the control unit by pressing the relevant button on the command bar (BrowserOne) or in the Home page (QHUBOsetup).

6.12 Connect the unit to e-Connect

- go to page **System Options > Network parameters**
- in pane **e-Connect**, select **Enable GPRS connection to e-Connect**
- enter APN
- set connection parameters

Enable WiFi connection to e-connect can also be selected for QHUBOWF, in which case configure the connection parameters in the WiFi panel.

- **BrowserOne**: write the configuration into the control unit by pressing the relevant button on the command bar
- enter registration code (9 digits) received via email for the registration to e-Connect in the **Account Registration** pane

The request is made by creating a new user profile managed by the installer (from the installer profile of e-Connect) or independently (from www.connect.elmospa.com/qhubo).

- Press **Register**
- **BrowserOne**: read the configuration of the control unit by pressing the relevant button on the command bar

6.13 System test


A test of the connected sensors must be carried out periodically to check their functionality.

- go to **Status** page
- press **Start Sensor Test**

The SENSOR TEST IN PROGRESS message will appear next to the button.

The keypad and proximity key reader LEDs will blink. Activate each detector and verify its correct working by looking at its on-board LEDs.

Activating the detector during a test produces an acoustic signal instead of an alarm.

 See user manual of each device for detailed information.

- once done, press **Stop Sensor Test** to make the system operative again

6.14 Final operations


- write the configuration into the control unit by pressing the relevant button in the command bar (BrowserOne) or the Home page (QHUBOsetup)
- disconnect the USB mini-B cable
- close control unit case
- arm and disarm the system (ch. 7 p. 6) to reset alarm and fault memories

- set all remaining sirens and actuators to operating mode
- From now on, opening the control unit's cover will activate all sirens and activators that have been programmed to activate on tamper events.


Future connections

Use the BrowserOne configuration software in e-Connect connection mode to change the configuration without having to open the control unit.

Should it be necessary to open the control unit for reasons other than connecting the USB cable, connect anyway through BrowserOne via e-Connect in order to put the control unit in a **system lock** status, allowing the housing to be opened without an alarm being generated.

 For further information about the system, please see programming manual of the control unit.

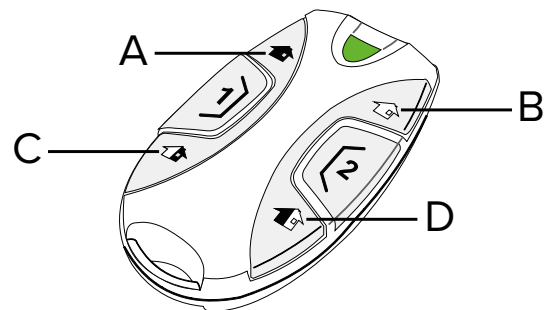
7 OPERATING MODE

 Please refer to the user manual of the control unit for more details on arming and disarming operations.

7.1 Arming with remote control

The most immediate arming entails the arming of the sectors proposed to the user (chap. 6.8 p. 5).

The proposed sectors are defined during system installation.



- A** Key "TOTAL ARMING"
- B** Key "TOTAL DISARMING"
- C** Key "PARTIAL ARMING 1"
- D** Key "PARTIAL ARMING 2"

To arm the system, press one of the following keys:

- "Total arming" (A): arms all sectors;
- "Partial arming 1" (C): arms sectors proposed for the user;
- "Partial arming 2" (D): arms non-proposed sectors.

7.2 Disarming with remote control

- press "total disarming" (B) key

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EU DECLARATION OF CONFORMITY

Hereby, EL.MO. Spa declares that the radio equipment QHUBO / QHUBOWF is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.elmospa.com – registration is quick and easy.



GENERAL WARNINGS



This device has been designed, built and tested with the utmost care and attention, adopting test and inspection procedures in compliance with current legislation. Full compliance of the working specifications is only achieved in the event the device is used solely for its intended purpose, namely:

Wireless intrusion detection system.

The device is not intended for any use other than the above and hence its correct functioning in such cases cannot be assured. Consequently, any use of the manual in your possession for any purpose other than those for which it was compiled - namely for the purpose of explaining the product's technical features and operating procedures - is strictly prohibited.

Production processes are closely monitored in order to prevent faults and malfunctions. However, the components adopted are subject to an extremely modest percentage of faults, which is nonetheless the case with any electronic or mechanical product.

Given the intended use of this item (protection of property and people), we invite you to adapt the level of protection offered by the system to suit the actual situation of risk (allowing for the possibility of impaired system operation due to faults or other problems), while reminding you that there are specific standards for the design and production of systems intended for this kind of application.

We hereby advise you (the system's operator) to see that the system receives regular routine maintenance, at least in accordance with the provisions of current legislation, and also check on as regular a basis as the risk involved requires that the system in question is operating properly, with particular reference to the control unit, sensors, sounders, dialler(s) and any other device connected. You must let the installer know how well the system seems to be operating, based on the results of periodic checks, without delay.

Work involved in the design, installation and maintenance of systems incorporating this product should be performed only by personnel with suitable skills and knowledge required to work safely so as to prevent any accidents. It is vital that systems be installed in accordance with current legislation. The internal parts of certain equipment are connected to the mains and therefore there is a risk of electrocution when maintenance work is performed inside without first disconnecting the primary and emergency power supplies. Certain products include batteries, rechargeable or otherwise, as an emergency backup power supply.

If connected incorrectly, they may cause damage to the product or property, and may endanger the operator (explosion and fire).

INSTALLER WARNINGS



Comply strictly with current standards governing the installation of electrical systems and security systems, and with the manufacturer's directions given in the manuals supplied with the products.

Provide the user with full information on using the system installed and

on its limitations, pointing out that there are different levels of security performance that will need to suit the user's requirements within the constraints of the specific applicable standards. See that the user looks through the warnings given herein.

Work involved in the design, installation and maintenance of systems incorporating this product should be performed only by personnel with suitable skills and knowledge required to work safely so as to prevent any accidents. It is vital that systems be installed in accordance with current legislation. The internal parts of certain equipment are connected to the mains and therefore there is a risk of electrocution when maintenance work is performed inside without first disconnecting the primary and emergency power supplies. Certain products include batteries, rechargeable or otherwise, as an emergency backup power supply. If connected incorrectly, they may cause damage to the product or property, and may endanger the operator (explosion and fire).

USER WARNINGS



Check the system's operation thoroughly at regular intervals, making sure the equipment can be armed and disarmed properly.

Make sure the system receives proper routine maintenance, employing the services of specialist personnel who meet the requirements prescribed by current regulations.

Ask your installer to check that the system suits changing operating conditions (e.g. changes in the extent of the areas to be protected, change in access methods, etc...)

MAIN SAFETY RULES

The use of the device is forbidden for children and unassisted disabled individuals.

Do not touch the device when bare footed, or with wet body parts. Do not directly spray or throw water on the device.

Do not pull, remove or twist the electric cables protruding from the device even if the same is disconnected from the power source.

DISPOSAL WARNINGS



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In accordance with Directive 2012/19/EU on waste electrical and electronic equipment (WEEE), please be advised that the EEE was placed on the market after 13 August 2005 and must be disposed of separately from normal household waste.

This product needs batteries for correct functioning. Exhausted batteries have to be delivered to dumping grounds authorised for battery collection. The materials used for this product are very harmful and polluting if dispersed in the environment.