iconnect

Quick Start Installation Guide

For detailed information please refer to the full **iConnect**
Installer Manual provided on our website: www.electronics-line.com

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1. Introduction

Thank you for choosing iConnect wireless intruder control panel. This quick start guide manual describes the main steps for installing and programming the iConnect Control System using the keypad on the main unit.

2. System Installation

1. Open the main unit housing.

2. Place the rear main unit in position against the wall and mark the upper and lower mounting holes.
   Note: If required, mark the hole for the rear tamper. The hole is located behind the main board.

3. Install wall anchors in the appropriate positions

4. Thread the power cable through the wiring hole on the back cover and connect the cable to the AC power input on the main board (10).
   Caution: Do not apply AC power at this stage.

5. Connect the telephone and telephone line (11) to their connectors on the Communication module.

6. Optional (**Figure 1**): If required connect external modules to the main unit such as wired zone module, home automation module (6), GPRS communication module (1) or Ethernet module. If Ethernet or GPRS modules are required connect a network (IP) cable or insert a SIM card to the GSM/GPRS module as required (If fitted).

7. Optional: Some devices, such as wireless siren, WSM, and wireless terminal require the plug-in transmitter (9). Mount the transmitter on the Control System's main board. For more details refer to the full installer manual.

8. Connect the battery pack to the connector (7) on the main board.

9. Enter the master user code number (default '1234') to silence the alarm.

10. Mount the control system to a wall

11. Close the front cover and apply AC power.

Note:

To recognize the external modules you should perform a system scan to program the modules connected to the system. A system scan is performed from the main menu: **[9]** Programming **> [7]** Initialize **> [5]** Find Modules **>** 3. The generated list displays the modules recognized by the system then save. If a connected module is not included in the list, check the wiring connections and run this scan again.
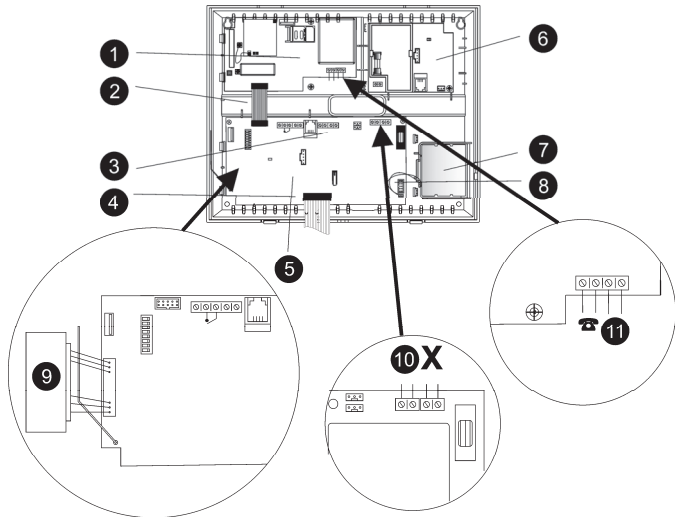
Figure 1: iConnect layout

1. GPRS/ GSM/ PSTN/ Ethernet communication module
2. Communication module cable
3. LCD Keypad connector
4. Ribbon flat cable
5. Main board
6. HA module
7. Battery pack
8. Battery pack wires
9. Plug-in TX
10. AC connector
11. Telephone line

3. System Programming

3.1. Keys Menu Navigation

This manual explains how to program the iConnect from the keypad located on the main unit. **Table 1** describes using the keypad keys during programming.

3	Enter / Save (to shift to displayed menu or to save the updated data.
7	Used to cancel the current selection or to return to the previous menu
▲ / ▼	To scroll up or down through the menu options
[1]-[0]	1. To enter numeric values when required.
	2. For quick key programming. Press the key number to access a programming option.
	3. To edit descriptors.

Table 1: Keypad usage

3.2. Enter Installer Programming mode

1. Go to the default display and press '√'.
2. Enter installer code (the default installer code is '1111').
3. Using the arrow keys, select **[9]** Programming.

3.3. Selecting a language

The iConnect supports several languages. For easy operation, change the system language as follows:

1. Go to the main menu and select **[9]>[7]>[1]** (Programming > Initialize > Init All)
2. Select default and press '√'. Select **language** (Voice + LCD display) and press '√'.

3.4. Registering Wireless Devices

In order to recognize a device, iConnects' transmitter must be registered.

It is recommended to register all devices to the control panel before installing. To install the wireless devices/accessories *temporarily* fit them to the desired locations, and then perform a range test . Testing may show a false relocation of the panel or some of its devices/accessories.

Note:
For wireless siren registration refer to the full installer manual.

3.4.1. Detectors

The iConnect supports 33 security zones. Only one detector can be registered to each zone. Zones 1-32 are intended for wireless detectors by default, unless zones 1 to 8 are programmed as wired zones connected to the Wired Zone Module – see the *iConnect Installation Manual* for details. Zone 33 is an on-board hardwire zone.

Step 1: Register a detector

1. From the main menu select **[9]>[1]>[1]** (Programming **>** Devices **>** Zones)
2. Using the arrow keys, select a specific zone and press '√'. The system initiates Registration mode.
3. Send two transmissions from the detector. A confirmation sound is heard after each successful signal (chime sound). After two successful transmissions a confirmation beep is heard.
   Sending the transmissions can be done in several ways, as summarized in **Table 2**.

Device	Device P/N	Sending Transmissions
PIR Detectors	EL-2745/2745PI EL-2600/EL-2600PI/EL-2645/ EL-2645PI	Apply battery power. Place the mode jumper over pins 2 and 3 (Radio Mode); the LED flashes. OR Depress the tamper switch twice, in rapid succession.
Magnetic contact	EL-2601	When you apply battery power, and the tamper switch is open, the device enters test mode during which a transmission is sent every few seconds. You can terminate the test mode by closing the tamper switch.
Flood Sensor	EL-2661	
Universal Transmitter	EL-2602	
Glass break	EL-2606	
Smoke Detector	EL-2603	Press the test button. Make certain that the transmission LED is lit momentarily. Wait for five seconds, then press the test button again.

Table 2: Transmission sending

4. After the detector is successfully registered the display shows: '*Save?*'.
   Press '√' to confirm and continue entering other parameters for the chosen device (see section below) or press **X** to go back and enroll additional zones.

Step 2: Set detector's parameters

1. Go to the main menu select **[9]>[1]>[1]** (Programming **>** Devices **>** Zones)
2. Using the arrow keys select a specific zone and press '√'.
3. Set the main parameters for each zone, according to **Table 3**.

Quick Key	Option Name	Description and Notes
9>1>1>2	Zone Type	Type of alarm this zone generates
9>1>1>3	Arm Set	Arming methods in which the zone is included.

None Partition system:	Partitioned System:
1 (F): The zone is included in Full arming	1 (F): The zone is included in Full arming
2 (P): The zone is included in Part arming	2 (P1): The zone is included in Partition 1
3 (PE): The zone is included in Perimeter arming	3 (P1): The zone is included in Partition 2
	Note: To enable partition mode go to Partition Setting [Quick key: **9>4>23**] and select **Enables**

Quick Key	Option Name	Description and Notes
9>1>1>4	Descriptor	Descriptors help identify the device when you operate and program the system.
9>1>1>5	Bell (Siren)	Activate the siren when the zone is triggered
9>1>1>6	Chime	Activate the internal siren when the zone is triggered. **Note**: To enable the chime option enable Global Chime option, [Quick key **7>12**]
9>1>1>7	Force Arm	Enables you to arm the system even if this zone is not ready. For the force arm feature to function, you must also enable force arming in system options.

Table 3: Parameters settings

4. If required scroll thorough the other menu parameters and modify settings as warranted.

Step 3: Test the detectors

1. Go to the main display and press '√'.
2. Enter your installer code (default code '1111').
3. Enter **[7]>[07]>[2]** (Service > Transmitters > TX Test) to initiate TX communication test. This test enables to identify transmitters and test their signal strength.
4. Activate the transmitter to test; the transmitter's details appear on the iConnect LCD and a sequence of tones is heard indicating the transmitter's signal strength.

Signal Strength	Tones
0-2	1 Tone
3-5	2 Tones
6-8	3 Tones
8-9	4 Tones

Note:

If the signal strength is less than 6, move the transmitter to a better location.

Table 4: Signal strength

In addition the display shows the detectors status using the abbreviations seen in **Table 5**.

Item	Description…	Item	Description…
OK	The transmitter is functioning correctly	OS	The transmitter is not synchronized
TA	Tamper condition	NA	The transmitter is inactive
BT	Battery low		

Table 5: Abbreviations table

3.4.2. Keyfobs

The iConnect Control System supports up to 19 keyfobs.

Step 1: Register a keyfob

1. Go to the main menu, select **[9]>[1]>[2]** (Programming **>** Devices **>** Keyfobs)
2. Using the arrow keys select the specific keyfob and press '√'. The system initiates Registration mode.
3. Press a button on the keyfob, assuring the keyfob's LED lights up when the button is pressed.
4. Press the same button again.
5. When *'Save?'* appears on the Control System's LCD display, press '√'.

Step 2: Set the keyfob's parameters

1. Go to the main menu, select **[9]>[1]>[2]** (Programming **>** Devices **>** Keyfobs)
2. Using the arrow keys select a specific keyfob and press '√'.
3. Set the parameters for each keyfob according to **Table 6**.

Quick Key	Option Name	Description and Notes
9>1>2>2	Type	Controlled or non-controlled. A controlled keyfob causes the system to send arm/disarm event messages to the central station. Non-controlled keyfobs never send arm messages and send a disarm message only if the system is disarmed after an alarm occurrence

Quick Key	Option Name	Description and Notes
9>1>2>3	Descriptor	Descriptors help identify the device when you operate and program the system. Use the 💡 key to insert a space
9>1>2>4	B1(EL-2714)	Refers to button 🔘. In a partitioned system assign the HA unit you want the button to control. (01–16, or 30 for PGM output) or enter 00 to program the button's default function – Part arming
9>1>2>5	B2 (EL-2714)	Refers to 🔘/🔘 button. In a partitioned system assign the HA unit you want the button to control. (01–16, or 30 for PGM output) or enter 00 to program the button's default function – Perimeter arming
9>1>2>6	Partition	Assign the keyfobs partitions as follows: 123 (F + P1 + P2): The keyfob is assigned to both partitions and full arming 2 (P1): The keyfob is assigned to partition 1 3 (P2): The keyfob is assigned to partition 2

Table 6: Keyfob parameters

Step 3: Testing the keyfobs

1. Go to the main display and press '√'.
2. Enter your Installer code (default code '1111').
3. Enter **[7]>[07]>[2]** (Service **>** Transmitters **>** TX Test) to initiate TX communication Test. Review the explanation in **Detectors** section.

3.4.3. Wireless keypads

Step 1: Register a wireless keypad

The iConnect supports up to four wireless keypads.

1. Go to the main menu, select **[9]>[1]>[3]** (Programming **>** Devices **>** Keypads) .
2. Select the keypad for registration and press '√'. The system initiates Registration mode.
3. Press a button on the keypad assuring a LED lights up when the button is pressed.
4. Press the same button again. When *'Save?'* appears on the Control System's LCD display, press '√'.
5. Set the keypad descriptor.

> **Note:**
>
> The above procedure refers to keypad EL2620 AND EL 2640. For registration keypads EL2621, EL2724, refer to the full installer manual.

Step 2: Test a keypad

1. Go to the main display and press '√'.
2. Enter your Installer code (default code '1111').
3. Enter **[7]>[07]>[2]** (Service > Transmitters > TX Test) to initiate the TX communication test. Review the explanation as seen in **Detectors** section.

3.5. Program Communication to Monitoring Station

This section describes the main parameters to establish communication between the iConnect and the CMS (Control monitoring station).

1. Go to the installer programming menu.
2. Select **[5]>[1]** (Communication > Accounts).
3. Select the account to be used for CMS report and press '√'.
4. Define the parameters according to **Table 7**.

Quick Key	Option Name	Description and Notes
9>5>1>1	Telephone No.	Enter phone number. Use the ♀ key to enter "T",",","P","+","*","#".
9>5>1>2	Protocol	Used to define the account's communication protocol. For CMS accounts select one of the options: IP protocol, SMS Contact ID, SMS SIA, SIA, Contact ID. **Note**: Set account 1 to IP protocol if you use GPRS / LAN communication
9>5>1>3	Communication Interface	Program an account's communication interface. Select PSTN, GSM, LAN, or GPRS (GPRS or LAN can be used only for the account 1)
9>5>1>4	Two-Way Audio	Enable/Disable two- way audio verification conversation between the premises and the operator at the MS.
9>5>1>5	Account number	Enter up to eight digits. Enter leading zeros for account numbers of less than eight digits. Use the ♀ key to enter hexadecimal digits.
		If the programmed protocol is Contact ID, "A" is not a valid entry in the account number.
9>5>1>6	Call Attempts	The Call Attempts option determines the number of times the system tries to call a telephone number before moving on to the next number in sequence. This feature is not available for voice report.
9>5>1>7	Account Type	Select whether the account is Primary or Backup. The first account is always primary, while every other account (that is not a voice report) may be chosen as primary or backup. Each primary account may have one, several, or no backup accounts at all

Table 7: Programming parameters

3.6. Set Up Follow Me Destination

The Follow-Me feature is designed to notify the user that alarm events have occurred. To set up follow me you need to define accounts for follow me.

1. Go to the installer programming menu.
2. Select [5]>[1] (Communication **>** Accounts)
3. Select the account to be used for Follow Me and press '√'.

   Note:

   Account number 3 is designed for using the Follow me feature. It is the only telephone number that can be programmed by the user in the following location (only if defined as SMS or TWA): Main menu **> [5]** Telephone **> [1]** Follow Me Number

4. Enter the Follow Me telephone number and press '√'
5. Select the protocol from the following options:
   - ➢ Two Way Audio Follow Me
   - ➢ SMS Follow Me
   - ➢ Voice Report
6. Define the communication interface for the Follow me: PSTN or GSM.
7. Scroll thorough the other menu parameters and press '√' to confirm.

   Note:

   Using the ELAS, the number of Follow me destinations by SMS or Email can be expanded.

3.7. Set Time & Date

The time and date are used to time stamp events in the event log. Additionally the time is also displayed on the LCD display.

1. Go to the main display and press '√'.
2. Enter installer code (default code '1111')
3. Select **[7] > [0] > [1]** (Service **>** Set Time/Date).
4. Select **[1]** Set Time. Enter the current time and press '√'
5. The display will show the **[2]** Set Date option. Enter the current date and press '√'.

   Note:

   If the time is set in 12hr format, use the ⭘ key to toggle between AM and PM.

3.8. Set/Edit Users

The iConnect supports up to 32 individual user codes. Each of these codes is four digits long. The ability to perform an operation is defined by your user code's authorization level. Each code is defined with its own authority level. Follow the table below to view the authorization level assigned to each of the codes.

Notes:
Codes 1-29 can be edited only by the Master code.
Codes 30–32 can only be edited by the installer. (Code 32 - Installer code, Code 31- Guard Code and Code 30, the Central Station TWA Code)

Code Number	Authorization Level	Description
1	Master Code	With the master code, you can edit all other user codes except the Installer code, the guard code and the Central Station TWA Code. **Caution**: The default master code is 1234. Change this code immediately after installing the system!
2-19	Controlled Codes	When you use a controlled user code for arming and disarming, the control system notifies the central station with an Arm/Disarm event message
20-25	Non-controlled Codes	Non-controlled codes do not cause the system to send Arm/Disarm event messages to the central station.
26-27	Limited Codes	Valid only for 24 hours. These codes are "controlled"
28	Duress Code	Designed for situations where the user is being forced to operate the system.
29	Telecontrol Code	Designed to enable the user to perform a number of tasks via their telephone when establishing remote connection to the system via the phone.
30	Central Station TWA Code	Designed to enable the central station's operator to establish two-way audio communication with the Control System within ten minutes after an alarm or to stop the bell.
31	Guard Code	Guard Code is an option that allows a security guard to check the premises in case of an alarm.
32	Installer Code	The installer code grants access to the programming menu and the service menu. **Caution**:The default Installer code is 1111. Change this code immediately after installing the system!

Table 8: Code numbers

❖ **To Set/Edit user code**

1. Go to the main display and press '√'.
2. Enter master code (default code '1234')
3. Select **[4]** User Codes
4. Select the code you want to edit and press '√'.
5. The display shows **[1]** Edit Code. Press '√'.
6. Type in the new code and press '√' to confirm
7. Scroll down to **[2]** Descriptor and press '√'
8. Type in the user name and press '√' to confirm
9. Scroll down to **[3]** Partition Set and select partitions.
10. Press **X** and select another user.
11. Repeat stages 4–9 to set the code for additional users.

Notes:

To delete the code, enter: '**0000**'. The installer and master codes cannot be deleted.

3.9. Set GPRS Communication

To establish GPRS communication:

1. Make sure that the SIM card ID is installed inside the communication module.

Note:

If a new SIM card has to be installed on the communication module and PIN code is used, it should be programmed in the control system before inserting the SIM card in the GSM module.

2. Edit the APN (Access Point Name) of your GPRS connection:

   a. Go to the main display and press '√'.
   b. Enter installer code (default code '1111')
   c. Select **[9] > [5] > [7] > [6] > [1]** (Programming > Communications > Internet > GPRS Options > APN)
   d. Enter the APN name provided by the cellular provider.
   e. Press '√' as soon as editing is completed.

3.10. Connect to ELAS (GPRS / LAN Configurations)

The Electronics Line Application Server (ELAS) handles all communication between the system, service providers and web users, enabling monitoring and control to be performed via the Web. Internet settings are mostly pre-programmed in the control system's default settings. The only settings you need to program are the control system's ID & password (provided by ELAS administrator).

Note:

To enable IP communication Account 1 protocol must be defined as IP and the account interface should be defined as GPRS or LAN.

To program the CPID:

1. Go to the main display and press '√'.

2. Enter your installer code.

3. Enter **[9] > [5] > [7] > [3]** (Programming > Communications > Internet > CPID).

4. Enter an ID using the alphanumeric keypad. The ID length may be up-to 16 characters. The ID must begin with a letter.

5. Press '√'.

To program the Control System's password:

1. From the main display press '√'.

2. Enter your installer code.

3. Enter **[9] > [5] > [7] > [4]** (Programming > Communications > Internet > CP Password).

4. Enter a password using the alphanumeric keypad. The password length may be up to 16 characters. The password must begin with a letter.

5. Press '√'.

If the Control System is has difficulty connecting to ELAS, an error message is displayed (see **Table 9**).

LCD display	Trouble Description	Action
MEDIA LOSS LAN MODULE	LAN network fail	Check the network connection to the Ethernet module
MEDIA LOSS GPRS MODULE	GPRS network fail	Check the SIM card placement , make sure it supports GPRS, check SIM PIN code. Check APN definitions (Name [95761], User name [95762] and password [95763])
DEVICE TROUBLE LAN MODULE	Faulty Ethernet module	Replacement of faulty module
DHCP ERROR	IP parameters can not be set because of missing DHCP services	Change IP LAN settings (Insert IP manually) or restored DHCP service
XML FAIL	CP fails to communicate with the XML Proxy	Check ELAS IP address (Quick key [9571]

Table 9: Error messages

4. Testing the System

Before leaving the site, it is important to fully test the system. iConnect has several testing tools to verify that the system will operate optimally, including the wireless communication

1. Go to the main display and press '√'
2. Enter installer code
3. Go to quick key as summarized in **Table 10**.

Quick key	Option	Description and Notes
7>0>3	WL Siren Test	The external siren is sounded briefly
7>0>4	Siren Test	Built-in siren is sounded briefly
7>0>6	Walk Test	A list of registered sensors appears. Trigger each sensor; when the system receives a successful transmission from a sensor, the sensor is removed from the list
7>0>7>1	TX List	This test is a scrollable inventory of all registered transmitters and their last reported status. Using the arrow buttons, scroll through the transmitter list. The TX list displays the zone/device number or descriptor.(Press the ♀ key to toggle the display) , the signal strength of the last received transmission and the last received status of the transmitter
7>9>1	GSM Signal Strength	Display the signal strength of the cellular network. In severe cases of low GSM signal consider using external GSM antenna.
7>9>2	RF RSSI level	Measure the RF RSSI level (RF noise measured by the systems' receiver). The result in levels from 1 to 9 is similar to the level of detector transmitter's signal strength. It is recommended that the gap between the RF noise level and the TX signal strength be at least 2. For example, if the RF RSSI level is 5 and the TX signal strength is 6, consider relocation of the Control System or its peripherals, or use repeater
5>1	Follow Me	Enter telephone number and perform a test to ensure follow me is working
6>1	View Event Log	Displays the last 1022 events of the system. The event display type of event, time of event and the zone number. In addition it reports if the event has been reported to the CMS as follows: **R**: Report Sent, **F**: Report Failed, **C**: Report Canceled or **N**: No Report , D: Disable – Not reported to CMS

Table 10: Quick keys

Electronics Line Limited Warranty

EL and its subsidiaries and affiliates ("Seller") warrants its products to be free from defects in materials and workmanship under normal use for 24 months from the date of production. Because Seller does not install or connect the product and because the product may be used in conjunction with products not manufactured by the Seller, Seller can not guarantee the performance of the security system which uses this product. Sellers' obligation and liability under this warranty is expressly limited to repairing and replacing, at Sellers option, within a reasonable time after the date of delivery, any product not meeting the specifications. Seller makes no other warranty, expressed or implied, and makes no warranty of merchantability or of fitness for any particular purpose. In no case shall seller be liable for any consequential or incidental damages for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Sellers obligation under this warranty shall not include any transportation charges or costs of installation or any liability for direct, indirect, or not be compromised or circumvented; that the product will prevent any persona; injury or property loss by intruder, robbery, fire or otherwise; or that the product will in all cases provide adequate warning or protection. Buyer understands that a properly installed and maintained alarm may only reduce the risk of intruder, robbery or fire without warning, but is not insurance or a guaranty that such will not occur or that there will be no personal injury or property loss as a result. Consequently seller shall have no liability for any personal injury, property damage or loss based on a claim that the product fails to give warning. However, if seller is held liable, whether directly or indirectly, for any loss or damage arising from under this limited warranty or otherwise, regardless of cause or origin, sellers maximum liability shall not exceed the purchase price of the product, which shall be complete and exclusive remedy against seller. No employee or representative of Seller is authorized to change this warranty in any way or grant any other warranty.

WARNING: This product should be tested at least once a week.

CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to local regulations.

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