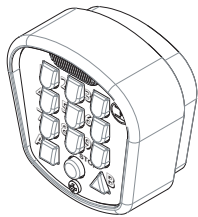


DGT 61

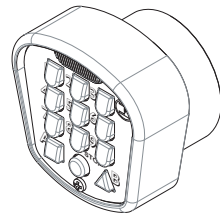
Digital keypad



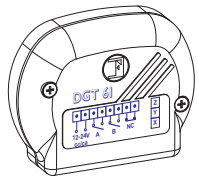
Item 610
Surface keypad



Item 611
Partial recess keypad



Item 612
Main Printed Circuit Board



GB

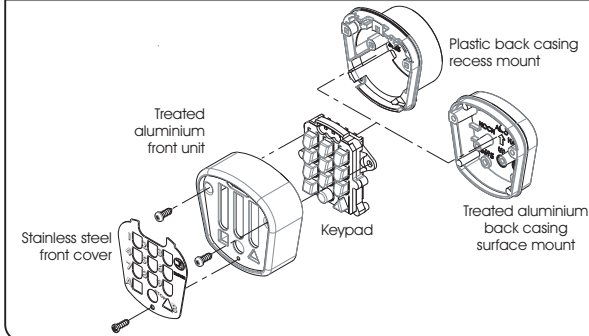


Directive 2002/96/CE
Disposal of electric and
electronic material
**DO NOT DISPOSE OF AS
NORMAL WASTE - HARMFUL
FOR THE ENVIRONMENT**



FADINI
the gate opener
made in Italy

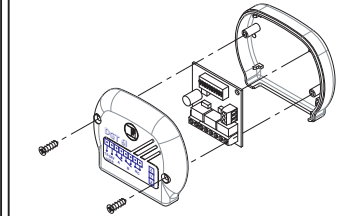
BRINGING THE KEYPAD APART



Pic.1

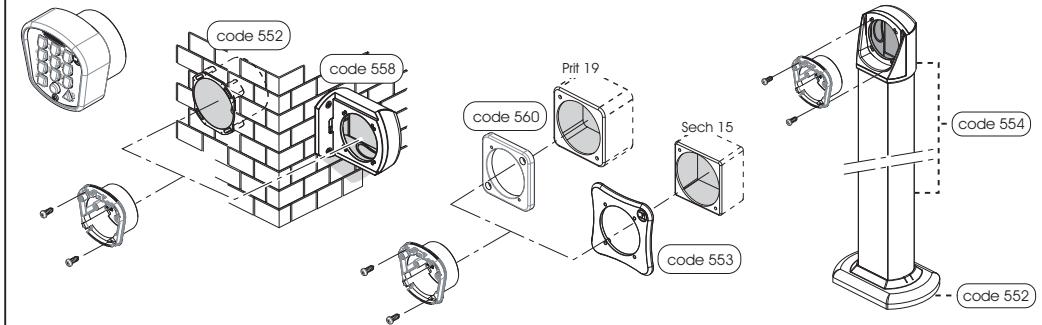
BRINGING THE MAIN PCB APART

! This unit is recommended to be installed in a safe and sheltered place



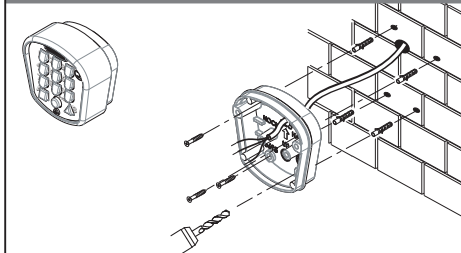
Pic.2

ACCESSORIES TO FIT THE KEYPAD, RECESS APPLICATION



Pic.3

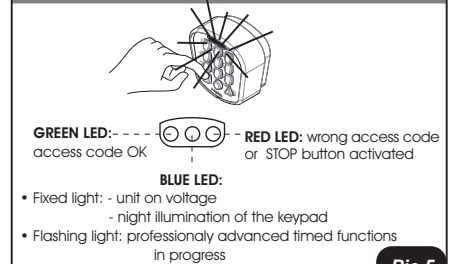
SURFACE APPLICATION OF THE KEYPAD TO A WALL



NOTE: screws and expanding bolts not supplied by us.

Pic.4

LED LIGHTS



Pic.5

SOUND DEVICE

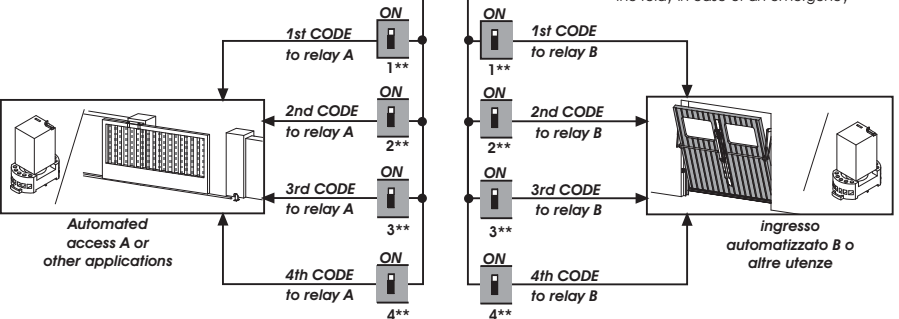
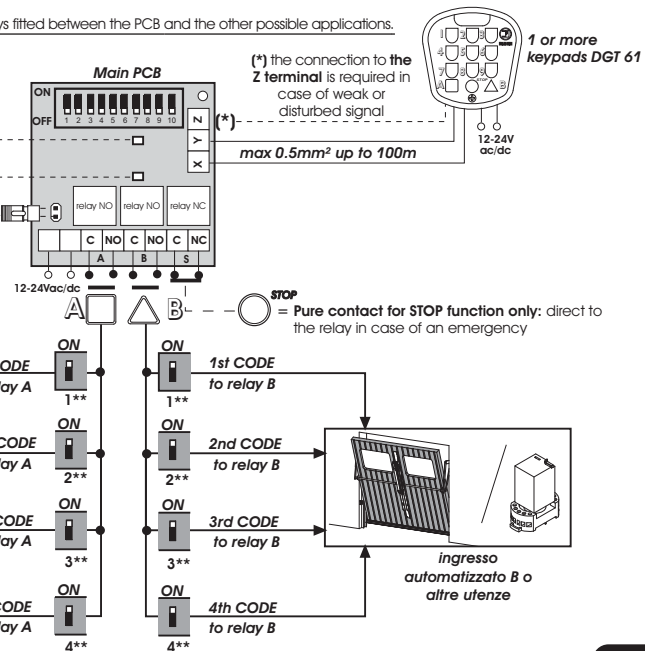


Pic.6

GENERAL DESCRIPTION

DGT 61 is a custom-encoded control accessory designed to open and close any automatic system. It can be also used to control other external applications. **DGT 61** consists of a **Keypad** (in an anti-corrosion treated aluminum casing, in two options either to be partially recessed or surface mounted) cable connected (x 4 wires) to the **Main PCB**; this one is to be installed near the Elpro electronic control box for the electrical connections. The keypad incorporates the button keys, illuminated in blue from the back: nine digits, two outputs A and B and one output for the emergency stop button. The main PCB is fitted with a terminal block where power supply is to be connected (in parallel also to the keypads), with the N.O. contacts of the A and B output relays and with one pure N.C. terminal output of a third relay, providing connections for an emergency stop. A second block of terminals X and Y (and a third one Z for long distance or disturbed signals) receive the encoded signal from the keypads. Programming is simple and immediate by Dip-switches on the main PCB. Each channel can take up to 4 different numerical codes; any one code, through the same channel either A or B, operates the same function. Other professionally advanced functions can be achieved by the two relays (bistable outputs, timed bistable outputs, output delay, etc.), and can be enabled by the Dip-switches on the main PCB. Other external control applications are also made possible (eg. illumination, alarm systems and watering) besides automatic door/gate systems, etc. In these cases, it is recommended that a relay be always fitted between the PCB and the other possible applications.

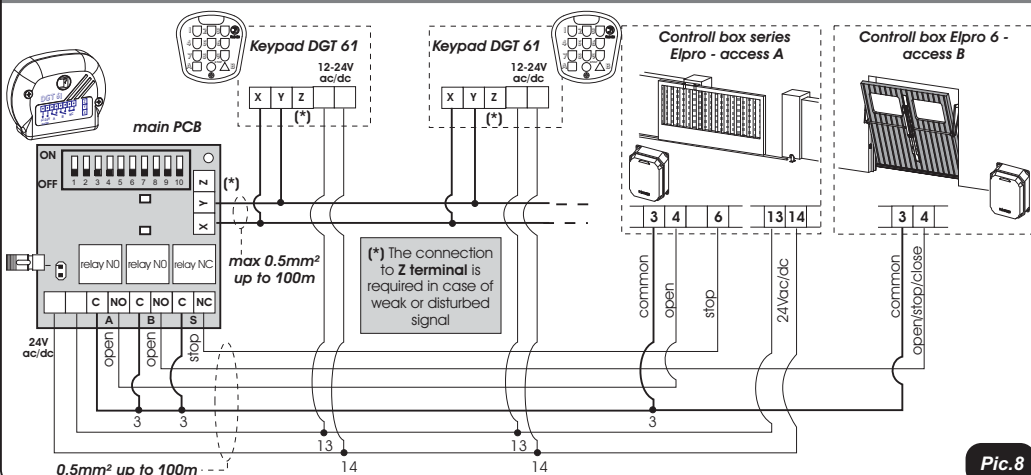
- Red led 1:** It flashes during programming phase
- Red led 2:** It flashes slowly when X Y are properly connected to the keypad
- Jumper for 12Vdc power supply:** when jumper is fitted, 12Vdc power supply is possible



**once encoding/programming phases are completed, all Dip-switches are to be set to OFF

Pic.7

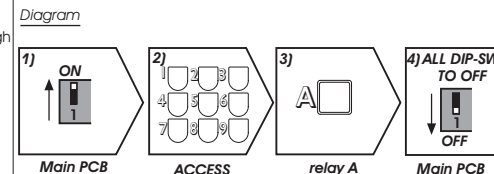
DIAGRAM OF A POSSIBLE INSTALLATION WITH TWO KEYPADS AND ONE PCB



Pic.8

STORING ONE OR MORE ACCESS CODES ONTO THE RELAY OUTPUT A

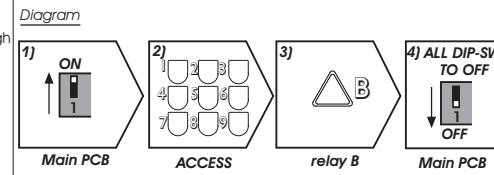
- Carry out the electrical connections to the **MAIN PCB** (Pic.8).
- Set **only one** of the switches **DIP 1** or **DIP 2** or **DIP 3** or **DIP 4** to **ON** (It is through the first four Dip-switches that different ACCESS CODES can be stored). The **red led 1** on the main PCB flashes.
- Press the **ACCESS CODE** (from 1 to 6 digits) - **press A**. The green led goes on followed by a long confirming beep.
- Set **all** DIP-switches to **OFF**. The red led 1 on the PCB goes off.



NOTE: The relay A can take up to 4 different access codes max. Each code is to be stored individually by setting any one of the first 4 DIP-switches to ON.

STORING ONE OR MORE ACCESS CODES ON O THE RELAY OUTPUT B

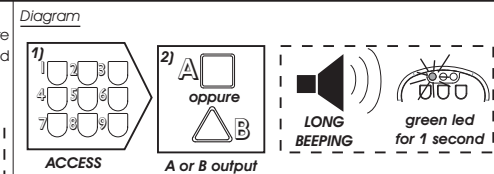
- Carry out the electrical connections to the **MAIN PCB** (Pic.8).
- Set **only one** of the switches **DIP 1** or **DIP 2** or **DIP 3** or **DIP 4** to **ON** (It is through the first four Dip-switches that different ACCESS CODES can be stored). The **red led 1** on the main PCB flashes.
- Press the **ACCESS CODE** (from 1 to 6 digits) - **press B**. The green led goes on followed by a long confirming beep.
- Set **all** DIP-switches to **OFF**. The red led 1 on the PCB goes off.



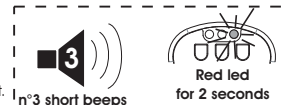
NOTE: The relay B can take up to 4 different access codes max. Each code is to be stored individually by setting any one of the first 4 DIP-switches to ON.

HOW TO OPERATE WITH DGT 61 KEYPAD

Once satisfied that the main PCB is properly connected to the Elpro control box, and the selected ACCESS CODES stored with the required output, to operate with the keypad just press the keys corresponding to the **ACCESS CODE**, followed by the key corresponding to the required **OUTPUT** (A or B). The green led goes on followed a long confirming beeping.

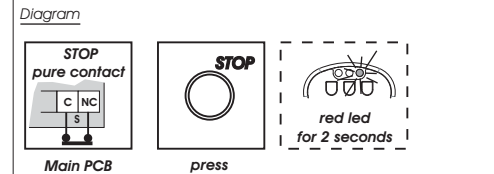


If the access code sequence is incorrect: the unit gives out 3 beeping sounds and the red led illuminates for 2 seconds. Dial correctly or reprogram the unit.



ENABLING THE STOP BUTTON KEY

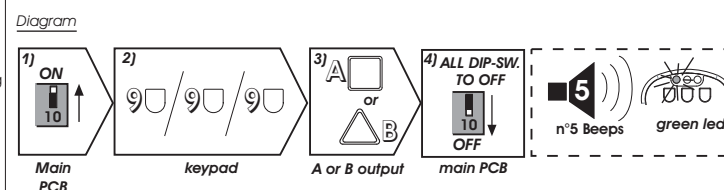
Carry out the electrical connections to the keypad, main PCB and the Elpro control box (or to a control relay), Pic. 8. The DGT 61 keypad incorporates also a pure NC contact to get the STOP function. The contacts of the **C - NC** terminals on the main PCB are opened on pulsing the **STOP** button in the keypad, and no code is required to be entered.



MEMORY CLEARING

PLEASE NOTE: THIS OPERATION ERASES COMPLETELY ALL THE ACCESS CODES AND ANY ADDITIONAL FUNCTIONS STORED WITH THE RELAY INVOLVED IN THIS PROCESS.

- Set the **Dip-sw. 10** to **ON**. The red led 1 flashes.
- Press the key **9 9 9** (three times).
- Press **button A** or **B** to erase the encoding and the functions from output A or B
- Set **all** the **DIP-switches** to **OFF**. **5 short beeps** confirm the operation while the green led keeps flashing as long as beeping can be heard.

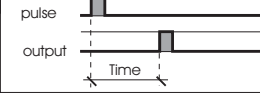


ADDITIONAL FUNCTIONS: can be achieved by the A and B outputs through one or more access codes

Connect the **main PCB** to the **control box** (Pic. 8) or to the external control relay, then store an access code with required outputs. Different functions can be achieved by one or both of the outputs, but different access codes to one relay carry out the same function. **NOTE WELL: functions are reset in case of a power failure, even if instantaneous.**

OUTPUT DELAY

The pulse is delayed (for a number of minutes) after pressing the access code.



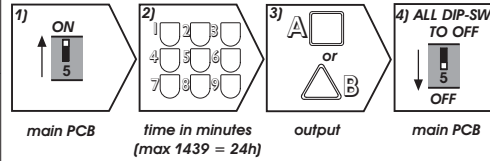
- Programming:**
- 1) Set **DIP-sw. 5** to **ON**. The red led 1 on the PCB flashes.
 - 2) Press the number of **minutes corresponding to the activation delay** as required (max.1439 minutes).
 - 3) Press output **A** or **B** through which the required function is activated.
 - 4) Set **all the DIP-switches** to **OFF**.

Confirmation of the operation: long beep and green led alight for 2 sec.

Using the function:

Press the **access code** followed by **A** or **B** as programmed. The green led goes on for 1 sec. followed by an activation beep. The blue led starts flashing and indicates that the function has been activated.

Diagram

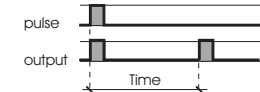


In order to **RESET** (the function is cancelled) press the following sequence: **A** or **B** - access code - **A** or **B**

The green led goes on for 1 sec. followed by a confirmation beep, while the blue led stays illuminated.

TIMED WITH 2 PULSES

A pulse is given after the access code has been pressed and another one is given after a set time (minutes)



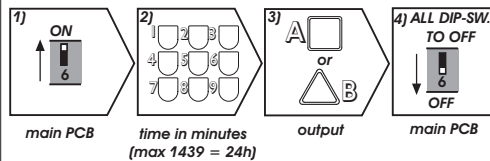
- Programming:**
- 1) Set **DIP-sw. 6** to **ON**. The red led 1 on the PCB flashes.
 - 2) Press the number of **minutes for the time required after the first pulse** (max. 1439 minutes).
 - 3) Press either **A** or **B** output by which the function is to be activated.
 - 4) Set **all the DIP-switches** to **OFF**.

Confirmation of the operation: long beep and green led alight for 2 sec.

Using the function:

Press the **access code** followed by **A** or **B** as programmed. The green led goes on for 1 sec. followed by an activation beep. The blue led starts flashing and indicates that the function has been activated.

Diagram



In order to **RESET** (the function is cancelled) press the following sequence: **A** or **B** - access code - **A** or **B**

The green led goes on for 1 sec. followed by a confirmation beep, while the blue led stays illuminated.

BISTABLE

Each pulse by the access code energizes or de-energizes the output relay.



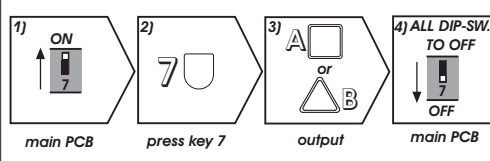
- Programming:**
- 1) Set **DIP-sw. 7** to **ON**. The red led 1 on the PCB flashes.
 - 2) Press only the **button key No. 7**.
 - 3) Press either **A** or **B** output by which the required function is to be activated.
 - 4) Set **all the DIP-switches** to **OFF**.

Confirmation of the operation: long beep and green led alight for 2 sec.

Using the function:

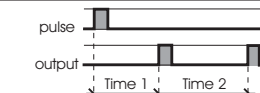
Press the **access code** followed by **A** or **B** as programmed. The green led goes on for 1 sec. followed by an activation beeping.

Diagram



TIMED DELAY WITH 2 PULSES

Each pulse by the access code delays (for a number of minutes) the energizing of the timed relay.



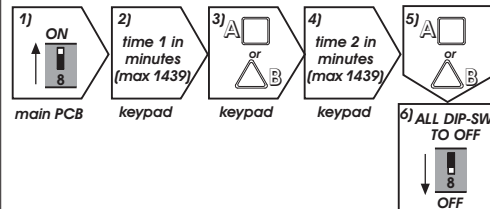
- Programming:**
- 1) Set **DIP-sw. 8** to **ON**. The red led 1 flashes.
 - 2) Press the number of **minutes for the delay with time 1** (max 1439 minutes)
 - 3) Press either **A** or **B** output by which the required function is to be activated.
 - 4) Press the number of **minutes for time 2** (max. 1439 minutes).
 - 5) Press either **A** or **B** as set in step 3).
 - 6) Set **all the DIP-switches** to **OFF**.

Confirmation of the operation: long beep and green led alight for 2 sec.

Using the function:

Press the **access code** followed by **A** or **B** as programmed. The green led goes on for 1 sec. followed by an activation beep. The blue led starts flashing and indicates that the function has been activated.

Diagram

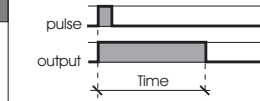


In order to **RESET** (the function is cancelled) press the following sequence: **A** or **B** - access code - **A** or **B**

The green led goes on for 1 sec. followed by a confirmation beep, while the blue led stays illuminated.

ADDITIONAL FUNCTIONS: can be achieved by the A and B outputs through one or more access codes

The relay is energized and remain energized for the time as set (in minutes).



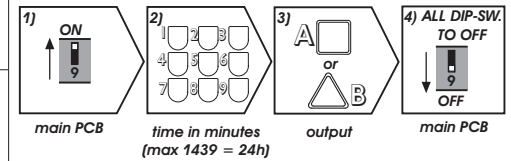
- Programming:**
- 1) Set **DIP-sw. 9** to **ON**. The red led 1 on the PCB flashes.
 - 2) Press the number of **minutes corresponding to the activation time** as required (max. 1439 minutes).
 - 3) Press output **A** or **B** as required for the function to be activated.
 - 4) Set **all the DIP-switches** to **OFF**.

Confirmation of the operation: long beep and green led alight for 2 sec.

Using the function:

Press the **access code** followed by **A** or **B** as programmed. The green led goes on for 1 sec. followed by an activation beep. The blue led starts flashing and indicates that the function has been activated.

Diagram

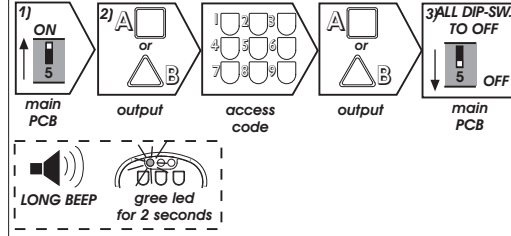


In order to **RESET** (the function is cancelled) press the following sequence: **A** or **B** - access code - **A** or **B**. The green led goes on for 1 sec. followed by a confirmation beep, while the blue led stays illuminated.

REMOVING THE ADDITIONAL FUNCTIONS

Steps to cancel the additional functions from the single relay and set the DGT 61 unit back to normal functioning.

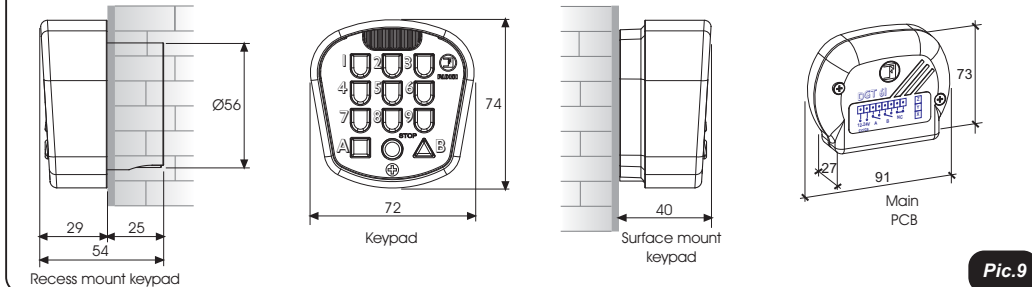
Diagram



- Programming:**
- 1) Set **DIP-sw. 5** to **ON**. The red led 1 on the PCB flashes.
 - 2) Press **A (or B) - access code - press A (or B)**.
 - 3) Set **all the DIP-switches** to **OFF**.

Confirmation of the operation: long beep and green led alight for 2 sec.

OVERALL DIMENSIONS



Pic.9

TECHNICAL DATA

Power supply 2x0.5mm ²	12-24Vdc/ac
Connections to the keypad	4 x 0.5mm ²
Keypad absorption	15 mA
Stand-by relay absorption	4 mA
Energized relay absorption	27 mA
Working temperature	-20° + 80°C
N.O. channels	2
N.C. channels	1
Communication distance	max 100 m
Output contacts	1A-125V-60VA
keypad protection standards	IP 54
PCB protection standards	IP 53

The manufacturer reserves the right to change this manual without prior notice, and is not liable for incorrect applications or damages to persons and properties.

DECLARATION OF CONFORMITY of the manufacturer



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e-mail: info@fadini.net - www.fadini.net

Manufacturing company:

DECLARES UNDER ITS OWN RESPONSIBILITY THAT:

DGT 61

The model:

DGT 61 is a digital keypad designed to be sold and installed into a comprehensive "Automatic System", including the original accessories and components as recommended by the Manufacturing Company. The installer must issue the Installer's Declaration of Conformity and carry out all the tests required to comply with the existing regulations.

- The manufacturing company is not liable for any incorrect use of its product. The product conforms with the following norms as specified below:
- Low Voltage Directive
 - 2004/95/CE
 - Electro-magnetic Compatibility Directive
 - 2004/108/CE and 92/31 CEE

Meccanica FADINI s.p.a.

Il Responsabile

The responsible manager



Date: 20-04-11

