PROG TOOL

1. BEFORE USE

Caution: avoid any contact of this equipment with rain or water, in order to prevent the development of flames or electric shock.

CAUTION / RISK OF ELECTRIC SHOCK / DO NOT OPEN	Caution: do not remove the cover, in order to reduce the risk of electric shock. There are no components inside that need maintenance by the user. Always refer to qualified service staff for any intervention.
(lightning triangle symbol)	The symbol characterized by a lightning inside an equilateral triangle is intended to alert the user of a non-insultated voltage souce within the product area that is sufficiently high to constitute a risk of electric shock to persons.
(exclamation triangle symbol)	The symbol characterized by an esclamation mark inside an equilateral triangle is intended to alert the user of important operating and maintenance (servicing) instructions.

CAUTION	This equipment must be installed only by the service staff with adequate technical training and experience, in order to be aware of any possible danger. Operations described in this manual are intended to be for exclusive use of the service staff. The user is is not enabled to open the device.

CAUTION	Dixell Srl reserves the right to modify this user's manual at any time without prior notice. The latest version available can be dowloaded from the website.

CAUTION	This is a class A product. In residential environments it can cause radio interference. In this case the user may need to take appropriate measures.

CAUTION	Dixell Srl reserves the right to change the components of its products, even without notice, ensuring the same and unchanged functionality.

CAUTION	Since Dixell products are part of a high-level technology, a qualification and a configuration/programming/commissioning stage is required to best use them. Otherwise, these products may malfunction and Dixell cannot be held responsible. The product must not be used in any way that differs from that stipulated in the documentation.

2. PRODUCT DISPOSAL (WEEE)

In compliance with the DIRECTIVE 2002/96/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of July 4th 2012 regarding Waste Electrical and Electronic Equipment (WEEE) and to the relative national legislation, we inform all EEE housholds users that:

➢ There lies the obligation not to dispose of electrical and electronic waste as municipal waste but to separate the waste;

➢ Public or private collection points must be used to dispose of the goods in accordance with local laws. Furthermore, at the end of the product's life, it is also possible to return this to the retailer when a new purchase is made.

➢ This equipment may contains hazardous substances. Improper use or incorrect disposal can have adverse effects on human health and the environment.

➢ The symbol ⬚ shown on the product or the package indicates that the product be disposed of as separated waste.

➢ Should the product be disposed of incorrectly, sanctions may be applied as stipulated in applicable local regulations regarding waste disposal.

3. PACKAGE

The KIT PROG-TOOL package contains the following objects:

A. 1 PROG TOOL unity

B. 1 CAB/PTK2 cable of 2m lenght

C. 1 CAB/PTK485 cable of 2m lenght to connect it to the RS485 port

D. 1 RS232/USB serial adaptor to connect it to the PC*
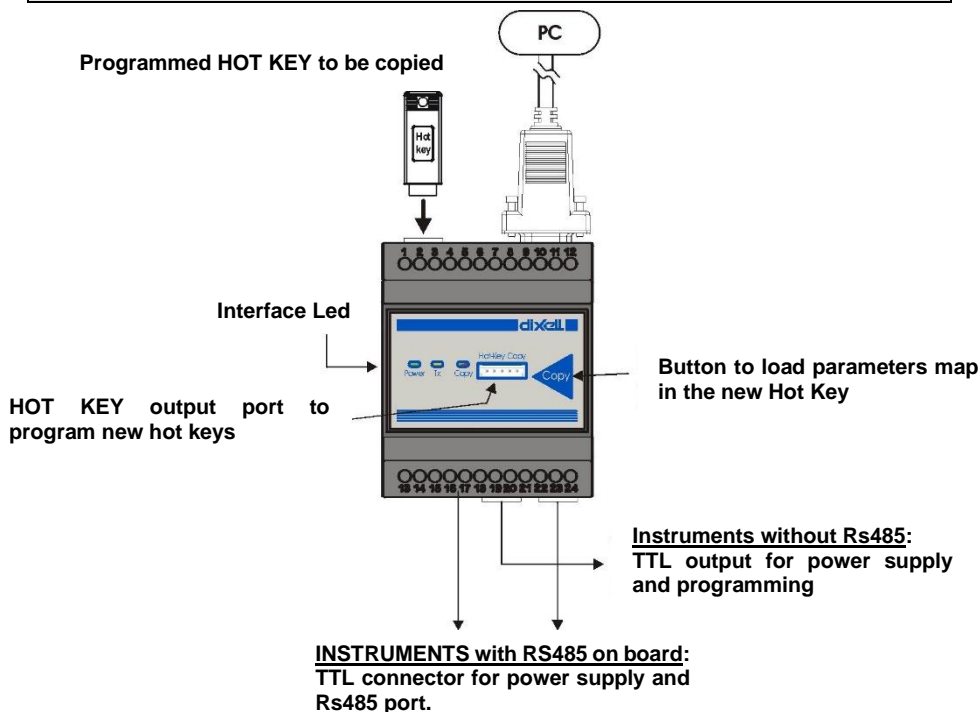
E. 1 PROG TOOL charging cable
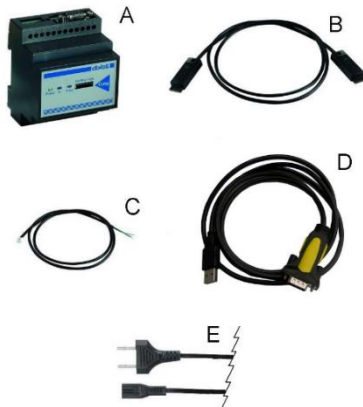
* The package contains a CD with the drivers for RS232/USB serial converter; before installing the drivers, verify if the PC automatically recognizes the converter.

4. PROG-TOOL USE

The PROG TOOL unit can be used to create HOT KEY programming keys and/or to interface DIXELL controllers to a PC in order to modify the parameters map using the Wizmate software.

4.1 WIRING DIAGRAM

Programmed HOT KEY to be copied

PC

Interface Led

Button to load parameters map in the new Hot Key

HOT KEY output port to program new hot keys

Instruments without Rs485: TTL output for power supply and programming

INSTRUMENTS with RS485 on board: TTL connector for power supply and Rs485 port.

4.2 LEDS MEANING

PROG TOOL is equipped with 3 colored LEDS to signal the different functioning states

Interface Leds

- **Green Led = power supply On**
- **Yellow Led = Hot Key programming**
- **Blinking yellow Led = communication between PC and PROG TOOL**
- **Red Led = Hot Key programming error**
- **Green Led = Hot Key successfully programmed**

4.3 PROGRAMMING FROM HOT-KEY TO HOT-KEY

This function allows to copy any HOT KEY that is already programmed.

Programmed Hot Key to be copied

Interface Led

Press to start copying

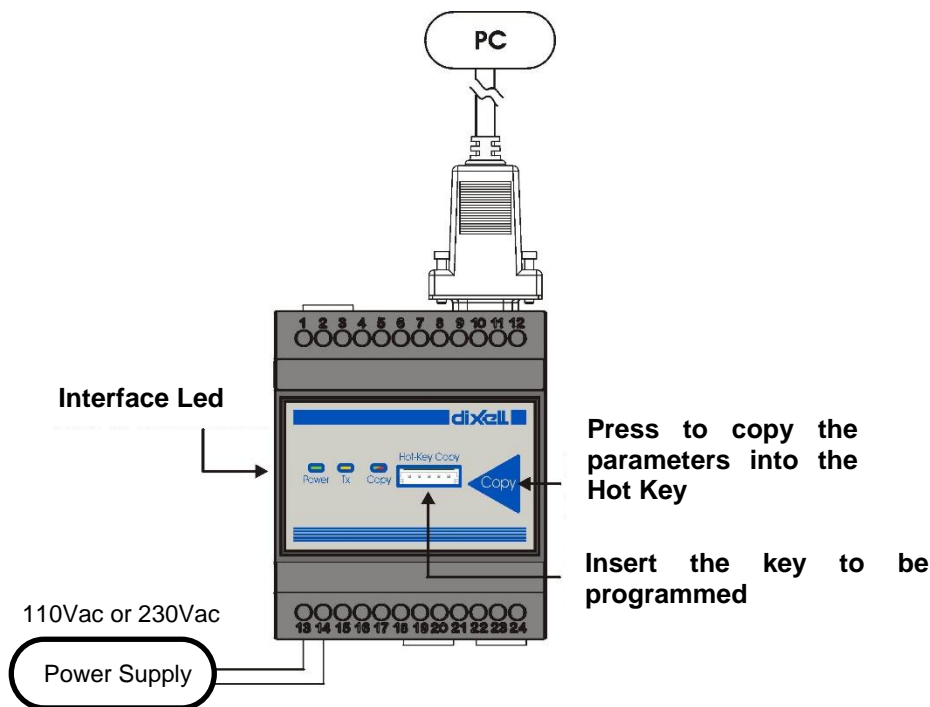**Insert the key to be programmed**
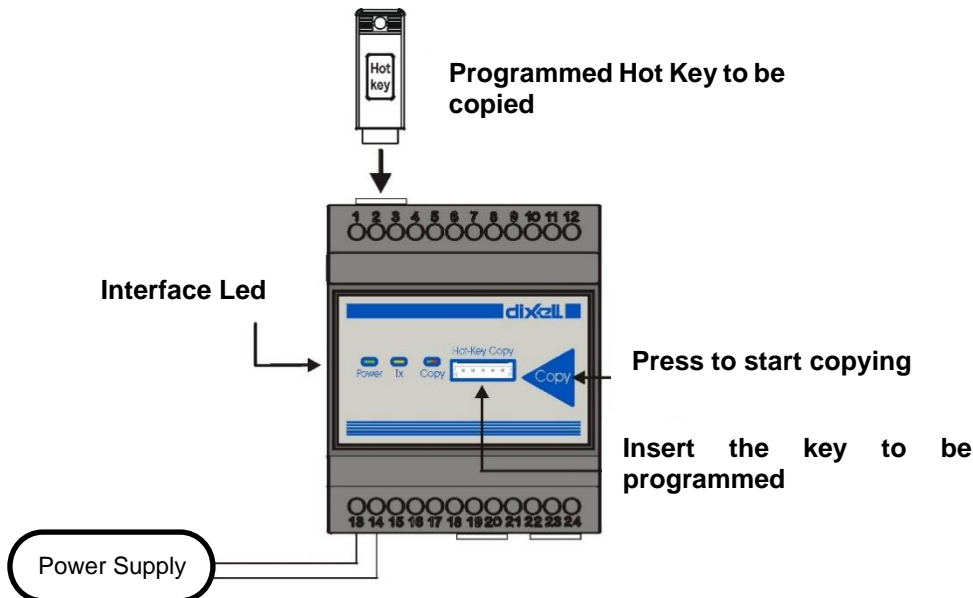
Power Supply

Connect the power supply to the terminal blocks 13 and 14 and make sure the "Power" Led is turned on.
1. Insert the original key in the connector on the top side of the programmer.
2. Press the "Copy" button to start the key copying procedure. During the operation the "Copy" Led is blinking green.
3. After a few seconds the "Copy" Led stops blinking and provides the result of the operation
   RED "Copy" Led = error during the HOT KEY programming, repeat the operation and eventually replace the key.
   GREEN "Copy" Led = successfully performed operation; Hot Key has been correctly programmed.
4. Remove the key.
5. Insert the key to be programmed in the "Hot-Key Copy" connector placed on the PROG TOOL front.
6. Press the "Copy" button to start the key copying procedure. During the operation the "Copy" Led is blinking green.
7. After a few seconds the "Copy" Led stops blinking and provides the result of the operation:
   RED "Copy" Led = error during the HOT KEY programming, repeat the operation and eventually replace the key.
   GREEN "Copy" Led = successfully performed operation; Hot Key has been correctly programmed.
8. Remove the new key.
9. It is possible to create further copies by inserting a new Hot Key to be programmed.

4.4 PROGRAMMING FROM PC TO HOT-KEY

Using the PROG TOOL unit connected to a PC and the Wizmate software (included in the CD-Rom) it is possible to create Hot Keys, according to your needs.

Interface Led

Press to copy the parameters into the Hot Key

Insert the key to be programmed

110Vac or 230Vac

Power Supply

1. Create the parameters map with the desired values using Wizmate software and copy it in PROG TOOL (see paragraph "HOT KEY CREATION").

2. Connect the PROG TOOL to the PC using the RS232/USB serial converter.

3. Insert the Hot Key to be programmed in the "Hot Key Copy" connector placed on the unit front.

4. Press the "Copy" button placed on the PROG TOOL front; the "Copy" Led starts blinking.

5. After a few seconds the "Copy" Led stops blinking and provides the result of the operation:

   RED "Copy" Led = error during the HOT KEY programming, repeat the operation and eventually replace the key.
   GREEN "Copy" Led = successfully performed operation; Hot Key has been correctly programmed.

6. Remove the programmed Hot Key.

***Note:** it is now possible to create further copies of the Hot Key simply repeating the steps from 2 to 5*

4.5 PROGRAMMING FROM PC TO INSTRUMENT

The use of PROG TOOL along with Wizmate software allows to verify and/or modify the parameters map of an instrument.

The instrument to be programmed must be connected to the PROG TOOL following one of the schemes indicated in the following pages (connection mode depends on the fact that the instrument has the RS485 serial port or not) and its compatibility (instrument model and software version) with Wizmate software must be verified using the table of Chapter 5 of this manual.

NOTE: parameters reading and/or writing is possible only for those controllers equipped with RS485 or TTL serial communication port.

For all instruments not equipped with serial port (PRIME and WING BASIC series) it is only possible to create HOY KEYS with which is then possible to program devices.

CONNECTION OF AN INSTRUMENT EQUIPPED WITH RS485 SERIAL PORT
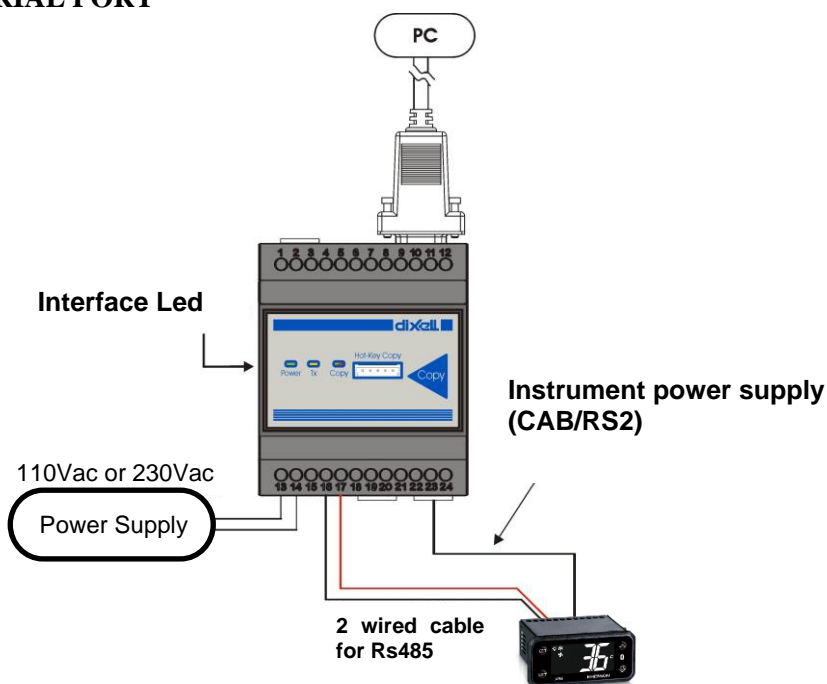
1. Connect the RS485 port of the instrument to the RS495 terminals of the PROG TOOL (16 and 17) through a double wired cable, respecting the + and - polarity.
2. Connect the "**+5V Supply**" connector placed on the PROG TOOL side to the TTL (Hot Key) port of the instrument by using the CAB/RS2 cable. This operation provides power supply to the instrument with no need for further connections.
3. Connect the PROG TOOL to the PC by using the serial converter RS232/USB.
4. It is now possible to check and eventually modify the programming of the instrument through the Wizmate software.

CONNECTION OF AN INSTRUMENT NOT EQUIPPED WITH RS485 SERIAL PORT

Interface Led

110Vac or 230Vac

Power Supply

Serial communication and instrument power supply (CAB/RS2)
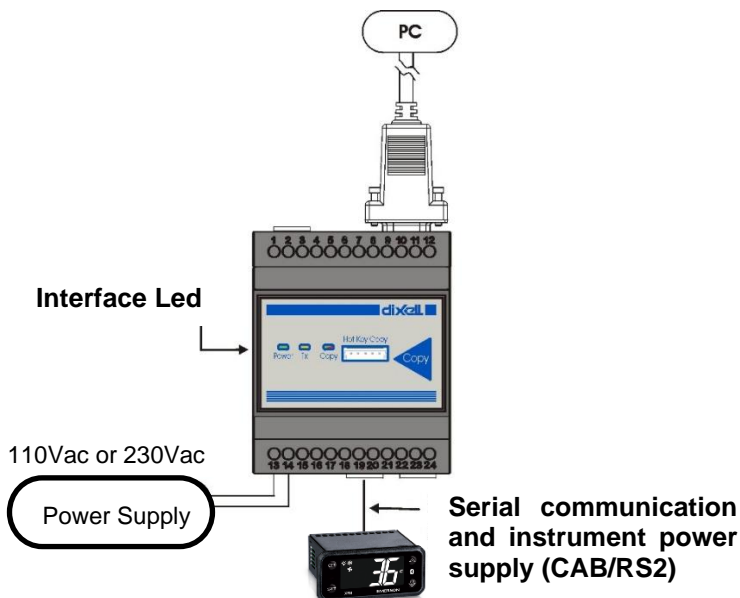
1. Connect the "TTL" connector placed on the side of PROG TOOL to the TTL port (Hot Key) of the instrument by using the CAB/RS2 cable. This operation provides both power supply and serial communication with no need for further connections.
2. Connect the PROG TOOL to the PC by using the serial converter RS232/USB.
3. It is now possible to check and eventually modify the programming of the instrument through the Wizmate software.

5. TECHNICAL DATA

Power supply: 115V +/- 10%, 50/60 Hz, 230V +/- 10%, 50/60 Hz
Power absorption: 3VA max
Operating temperature: 0÷60 °C
Relative humidity: 20÷85 % (non-condensing)
Storage temperature: -40÷85 °C

6. OPERATION

For operational procedures refer to WIZMATE MANUAL in the "Manuals Download" section of the website http://www.dixell.com, where you can find the latest updated version.