INDEX

PRGU433PP

The new programmable unit **PRGU433PP** (only compatible with Personal-Pass Transmitters) can be employed in automation systems for double leaves swing gates, where a prompt functional installation is guaranteed.

Programming the operation logic processes and the working times is extremely fast and straightforward; besides, the five control LEDs placed aboard the unit allow a continuous monitoring of the input statuses. Thanks to an automatic electronic check, the outputs toggle with no current absorption, therefore removing any sparkling effect on the relay.

RADIO STORAGE OF CODES

This version of the PRGU433PP allows storing up to 83 different codes, deleting all the memory-resident codes and thereafter inputting new ones.

To store the code correctly, a minimum distance of 1.5 meters between the transmitter and the receiver's antenna.

To radio-storing the required codes, proceed as follows:
- Press and hold the key PROG. RX, until LED L1 lights up.
- Press and hold the transmitter key until LED L1 goes out: the LED keeps off for half a second, thus showing that the code has been stored correctly; immediately after this, the LED starts flashing again, and the number of flashes is a measure of the space occupied by the code in the memory.

After the flashes, the system is ready for use.

IMPORTANT: every stored code is only associated with the START command.

DELETION OF ALL THE CODES IN THE MEMORY

The following steps need to be performed:
- Disconnect the power supply from the control unit.
- Press and hold the program mode key PROG. RX.
- At the same time, reconnect the power supply: the program mode LED L1 will flash and the key PROG. RX can be released.

Now, 83 memory zones are empty and available for a new programming process.
A partial deletion of codes is not possible.

TRYING TO INPUT A CODE ALREADY PRESENT IN THE MEMORY

If an attempt is made to store a code that is already present in the memory, the program mode LED L1 performs a number of flashes that equals that of the already occupied memory zone. Differently from the normal programming function, in this case the LED flashes more rapidly and, during the last flash, remains on for about 2 seconds.

The user can take advantage of this function to identify, at any time, the zone of memory where each single transmitter that has access to the system has been stored.

PROGRAMMING THE OPERATION LOGIC

Several operation logic options are available for the control unit, by properly selecting the position of the dipswitch positions on the board. The following table illustrates the functions that pertain to every single dipswitch.

SWITCH	FUNCTION	POSITION	DESCRIPTION
1	PREFLASH (the flasher activates 2 sec. before the motors start)	ON [1 up] 1 2 3 4 5 6	ACTIVE
		ON [1 down] 1 2 3 4 5 6	INACTIVE
2	AUTOMATIC RECLOSURE (the gate closes again after the set time-out T.PAU has elapsed)	ON [2 up] 1 2 3 4 5 6	ACTIVE
		ON [2 down] 1 2 3 4 5 6	INACTIVE
3	START COMMAND DURING THE OPENING	ON [3 up] 1 2 3 4 5 6	The unit does not sense the START command during the opening
		ON [3 down] 1 2 3 4 5 6	The unit senses the START command during the opening
4	START COMMAND LOGIC	ON [4 up] 1 2 3 4 5 6	The START pulse train commands a step-by-step operation: open – stop – close – stop…
		ON [4 down] 1 2 3 4 5 6	The START pulse during the opening, causes an immediate closing
5	ROLLING CODE	ON [5 up] 1 2 3 4 5 6	ACTIVE
		ON [5 down] 1 2 3 4 5 6	INACTIVE
6	PHOTOCELL	ON [6 up] 1 2 3 4 5 6	Active also during the opening
		ON [6 down] 1 2 3 4 5 6	Inactive during the opening

IMPORTANT: In this version, the motor starting is always active.
The photocell can never be disabled during the closing.
When using the automatic closing function (dip switch 2 ON) it is advisable to set dipswitch 4 in OFF position. This prevents a START command to stop the automation during the closing process.

PRGU433RY

The new programmable unit **PRGU433RY** (only compatible with Royal transmitters) can be employed in automation systems for double leaves swing gates, where a prompt functional installation is guaranteed.

Programming the operation logic processes and the working times is extremely fast and straightforward; besides, the five control LEDs placed aboard the unit allow a continuous monitoring of the input statuses.

Thanks to an automatic electronic check, the outputs toggle with no current absorption, therefore removing any sparkling effect on the relay.

RADIO STORAGE OF THE REMOTE CONTROLLER CODE

To store the code correctly, a minimum distance of 1.5 meters between the transmitter and the receiver's antenna.

To radio-storing the required codes, proceed as follows:
- Code the transmitter dipswitch
- Press and hold the key PROG. RX, until LED L1 lights up.
- Press and hold the transmitter key until LED L1 goes out.

IMPORTANT: the stored code is only associated with the START command.

CODE CHANGE

A stored remote controller code can be replaced by a new code, with the same procedure as for the storage. This way, the new code will overwrite the old one.

PROGRAMMING THE WORKING LOGIC PROCESSES

Several operation logic options are available for the control unit, by properly selecting the position of the dipswitch positions on the board. The following table illustrates the functions that pertain to every single dipswitch.

SWITCH	FUNCTION	POSITION	DESCRIPTION
1	PREFLASH (the flasher activates 2 sec. before the motors start)		ACTIVE
			INACTIVE
2	AUTOMATIC RECLOSURE (the gate closes again after the set time-out T.PAU has elapsed)		ACTIVE
			INACTIVE
3	START COMMAND DURING THE OPENING		The unit does not sense the START command during the opening
			The unit senses the START command during the opening
4	START COMMAND LOGIC		The START pulse train commands a step-by-step operation: open – stop – close – stop…
			The START pulse during the opening, causes an immediate closing
5	STARTING (2 sec.)		ACTIVE
			INACTIVE
6	PHOTOCELL		Active also during the opening
			Inactive during the opening

IMPORTANT: The photocell can never be disabled during the closing.
When using the automatic closing function (dip switch 2 ON) it is advisable to set dipswitch 4 in OFF position. This prevents a START command to stop the automation during the closing process.

INSTRUCTIONS FOR THE INSTALLATION ⚠️

The installer must provide for a device (es. magnetotermical switch) ensuring the omnipolar sectioning of the PRGU433RY / PRGU433PP equipment from the power supply.

The standards require a separation of the contacts of at least 3 mm in each pole (EN 60335-1).

The equipment is designed for non enclosed installations.

For the connection of stiff or flexible tubes and fasteners, use connectors according to IP55 protection grade.

CONNECTIONS TO THE TERMINAL BOARD ⚠️

POWER: motor power

T. WORK: motor working time

T.PAU.: time-out (only when the control unit is programmed to close again automatically)

T.DELAY: time elapsing between the openings of leaf 1 and leaf 2.

TERMINALS	CONNECTIONS
1.	Power supply phase wire 230 VAC
2.	Power supply neutral wire 230 VAC
3.	Motor common wire 1
4.	Power supply output 230 VAC for motor 1 during the opening
5.	Power supply output 230 VAC for motor 1 during the closing
6.	Motor common wire 2
7.	Power supply output 230 VAC for motor 2 during the opening
8.	Power supply output 230 VAC for motor 2 during the closing
9.-10.	Flasher 230 VAC, 40W
11.-12.	Power supply output 24 VAC for photocell and other accessories
13.	Opening command for connecting the key panel or the unlock key. Normally open contact (indicator L2)
14.	STOP command. Normally closed contact (indicator L3)
15.	Common wire (-)
16.	Photocell. Normally closed contact (indicator L4)
17.	Opening limit switch. Normally closed contact (indicator L5)
18.	Closing limit switch. Normally closed contact (indicator L6)
19.	Antenna cable shield
20.	Antenna cable core
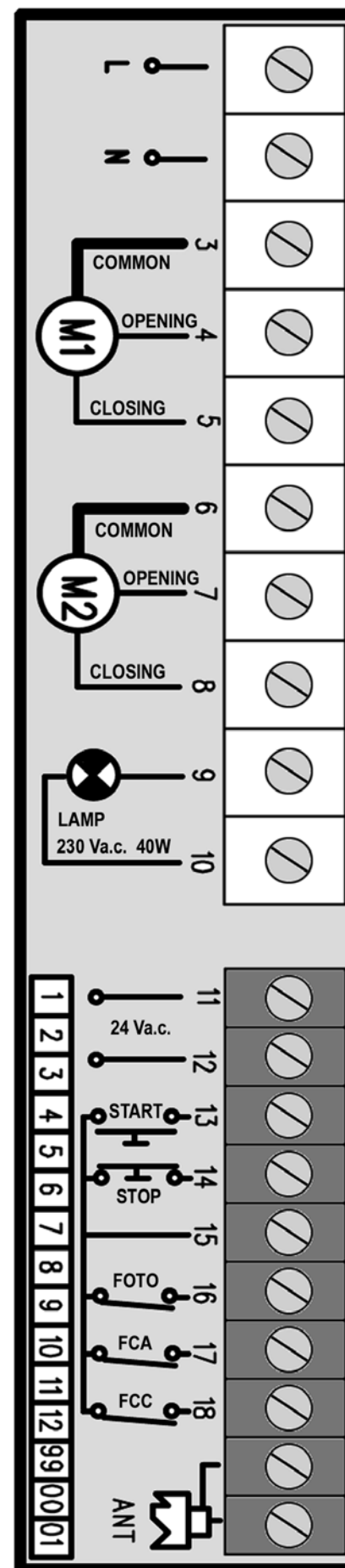
CAUTION: UNUSED INPUTS THAT ARE NORMALLY CLOSED SHOULD BE CONNECTED TO THE COMMON WIRE (-).

SPECIFICATIONS

Power supply	230 VAC, 50 Hz
Motor maximum load	700 W
24-VAC attachment maximum load	3 W
Room work temperature	-20 ÷ +60 °C
Fuses	5 A delayed for 220 VAC line 160 mA delayed for 24 VAC line 250 mA delayed for 12 VAC line
Dimensions	170 x 145 x 90 mm
Weight	765 g
IP	55

CONFORMITY TO REGULATIONS

V2 ELETTRONICA S.p.a. declares that the PRGU433PP / PRGU433RY conform with the provisions of the following EC directive(s) and that the standard referenced here below.

ELECTRICAL SAFETY	ELECTROMAGNETIC COMPATIBILITY	OFFICIAL USE OF THE SPECTRUM
EN 60335 – 1 + A1, A11, A12	ETS 300 683	EN 300 220 - 3

Racconigi, May 22nd, 2001

V2 ELETTRONICA legal representative

A.LIVIO COSTAMAGNA

CE