



"Pool Technology"



R.G.B CENTRAL CONTROL BOARD USER MANUAL

➤ INTRODUCTION

We are thankful for your trust in us with your purchase of GEMAS RGB Central Control Board. Central Control Boards are manufactured following the strictest quality controls and using the most advanced technology regarding RGB Controls.

With minimum maintenance and following elementary rules for installation and use, you will enjoy an extremely efficient device for many years.

Please read this manual carefully before its installation or start-up, keeping it for further reference.

The sections concerning installation require certain technical knowledge on the swimming pool. We advise you seek the aid of a professional.

Please pay special attention to the points marked:

Any damage caused to the control board resulting from not complying with these precautions may lead to cancellation of the guarantee.

All maintenances must be done after unplugging the control board.

Any damage caused to the board resulting from unapproved executions except for the warnings may lead to out of warranty cover.

➤ CONNECTION SPECIFICATION

- Supply Voltage : AC230 Volt
- Feeding Frequency : 50/60 Hz
- Supply Current : 1.50 A
- Output Voltage : DC12 Volt
- Output Frequency : 5 Khz
- Output Power : Max. 14 Amper \ \ 310 Watt

➤ INSTALLATION



4 pieces screws shown on the left picture is dismantled and lid is opened to reach connections and seen the main board shown on the right picture

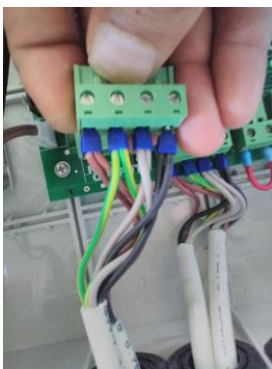


4 pieces klemenses should be dismantled to connect light groups, satelite board and main.



- 1. Light Group ←
- 2. Light Group ←
- Timer Con. ←
- Satelite Board Con. ←

Cables are connected to klemens according to light colours and cable colours.



Line of connections should not be mixed to correct manage to lights colours.

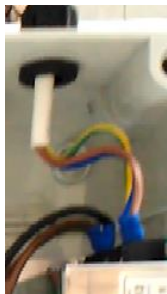
Cable Colour	Light Colours
Brown cable	Red light
Grey cable	blue colour
Green&yellow cable	Green Light



Cables should be connected according to sign on the bulbs as shown on the right picture.

NOTE: If required total power over 300W, satelite control board must be used.

- Main Connection (220 V);

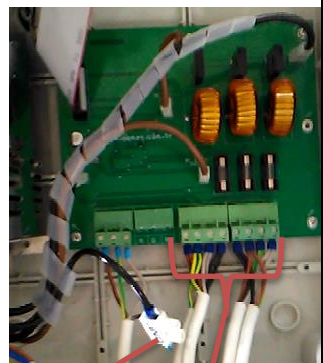


Control board is delivered ready to 220 V main connection.

- Satellite Control Board Connection



If a satellite control board will be used; R, G and B connections on control board are connected to R, G and B connections in satellite control board. GND connection is connected to GND klemens in satellite control board as shown on the right photo



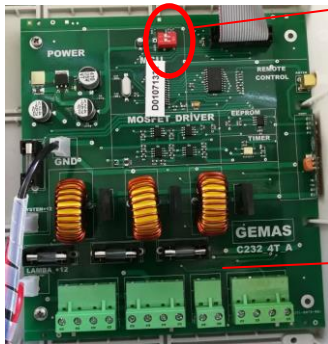
Satellite board connection in central control boards

GND Con.

Two group light connection.

IMPORTANT : If total power of lights which will be connected to a SATALITE or a central terminal is over than 300 W, connection of lights must be done on Power Supply +12V point as seemed on picture not '+' clemens point on PCB '+' .

Timer Connection



Timer Switch

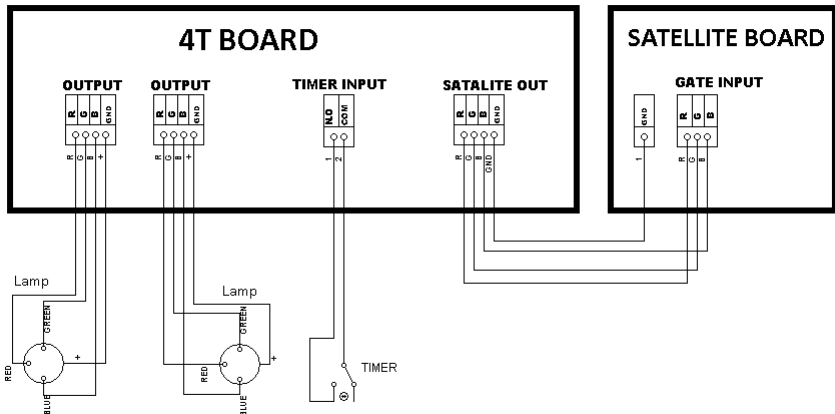
Timer switch no 1 positioned to on. Timer connection is done and board works according to timer.

Timer Con.

NOTE 1: For make the External Timer "ACTIVE" (in the picture below), jump to the marked pin. When the external timer is 'ACTIVE' and the timer contacts are " OFF ", all applications run via the RF control and keypad. But when the External Timer is "ACTIVE" and the Timer contacts are "ON", no application will work.

NOTE 2: If the External Timer is 'ACTIVE' and the Timer contacts are 'CLOSED', the Lamp Output will be 'ENERGY'. If the External Timer is 'ACTIVE' and the Timer contacts are 'ON', the Lamp Output will be 'SNAPLESS'.

➤ ELECTRIC SCHEME



RF Control and Keypad Functions



Button for change program



Button is not available



Program speed



On / Off

NOTE3: Control Distance ; Average 80 m in outdoor. Distance ; Depending on the frequency noise in the circular axis + \ - 20 meters' tolerance should be calculated.

➤ PROGRAMMS AND CONTENT

- RED, 2.GREEN,3.BLUE,4.YELLOW,5.PINK, 6.TURQUOISE.7.LILA,8.DAYLIGHT,9.ORANGE,10.WHITE
- SINGLE COLOR ON RF "D", ON KEYPAD "«»" SPEED CONTROL BUTTON IS ACTIVE
- 128 COLOR ON RF "D", ON KEYPAD "«»" SPEED CONTROL BUTTON IS ACTIVE.
- SECONDARY COLOR ON RF "D", ON KEYPAD "«»" SPEED CONTROL BUTTON IS ACTIVE.
- ROTATING COLOR ON RF "D", ON KEYPAD "«»" SPEED CONTROL BUTTON IS ACTIVE
- 256 COLOR ON RF "D", ON KEYPAD "«»" SPEED CONTROL BUTTON IS ACTIVE
- FLASH ON RF "D", ON KEYPAD "«»" SPEED CONTROL BUTTON IS ACTIVE

Troubleshoot