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COMMAND WITH BRUSTEC TIMER

This equipment makes it possible to change the color of the RGB LED Reflectors, and to trigger reflectors of the monochrome models. And you can also use the rhythmic function to make your pool more modern and interactive with the environment, where the pool lights will accompany the beat of the music you are listening to.

There is also the option to activate pumps, filters or other equipment via remote control through the relays outputs, and an auxiliary output has the DIGITAL TIMER function included, where you choose how many hours the filter pump will be on, 2-4-6-8-10 or 12 hours. Thus, the pump will start 8 hours every day automatically without the need to install a DIGITAL OR ANALOGICAL TIMER to activate the pump, reducing the installation cost.

The control panel must be dimensioned according to the quantity of LED; table follows with maximum capacity for each BRUSTEC command model:

COMMAND MODEL	BALIZER 0.5 w	POWER LED 1w	POWER LED 3w	POWER LED 3.5 w	POWER LED 5 w	POWER LED 6 w	POWER LED 9 w	POWER LED 15w	POWER LED 27W
2A	35	18	7	6	4	3	2	1	-
3A	55	25	9	9	5	5	4	2	1
6A	100	55	20	19	11	10	7	4	2
10A	185	95	34	33	19	18	12	7	4
20A	385	190	67	66	40	36	24	15	8
29A	565	290	108	98	50	54	36	22	11

IP 66 - Protected against dust and powerful jets of water in any direction - REMOTE CONTROL

IP 63 - Protected against dust and water splashes - COMMAND CENTER

FUNCTIONS

- The BRUSTEC control panel has 21 different color matching functions. **(21 Rhythmic)**
- Comes with a remote control. Medium range of 30 meters.
- Timer function via software, where you choose how many hours the pump stays on.
- 2 auxiliary outputs with 20A drive (max). For connection of Pump, Filter, Lights, etc.

IMPORTANT INFORMATION – RHYTHMIC FUNCTION

The rhythmic function is accessible via remote control and keyboard, where at the moment it is selected through the buttons (FORWARD/RETURN) the command center ON/OFF indication led will be flashing intermittently, and the pool reflectors will light up according to the beat that the music generates.

For this reason it is important that the equipment is installed in an open, dry place and, if possible, near the sound generating source, if any.

REMOTE CONTROL FREQUENCY CHANGE ***

POWER ON COMMAND CENTER

PRESS THE ON/OFF BUTTON FOR 5 SEC. UNTIL THE RED LED FLASHES.

PRESS THE REMOTE CONTROL ON/OFF BUTTON FOR 10 SEC. WHEN LIGHTING THE REFLECTOR, RELEASE THE BUTTON AND TEST THE OPERATION OF THE OTHER BUTTONS

*****NOTE: It is only necessary to do this procedure if there is another remote command or control interfering with your pool.**

YOUR CONTROL IS READY TO USE!

BELOW, THERE ARE IMAGES WITH THE BUTTONS THAT ARE USED FOR FREQUENCY EXCHANGE!



LED

ON/OFF BUTTON



GUARANTEE

BRUSTEC equipment is warranted for one year as of the store sale invoice, if installed in accordance with the manual and covering only factory defects that will be evaluated by the company's service department.

NOTE: The remote control battery is guaranteed for 90 days from the date shown on the sales invoice!

HOW TO PROCEED IF THERE IS ANY POTENTIAL DEFECT ON YOUR EQUIPMENT

1. Contact the store that sold the equipment, requesting support to find a possible solution or, if possible, a visit on-site of the technician for analysis.
2. If it is not possible to find the cause of the problem, contact the service department in our company and explain the problem so that some tests can be performed to detect the defect.

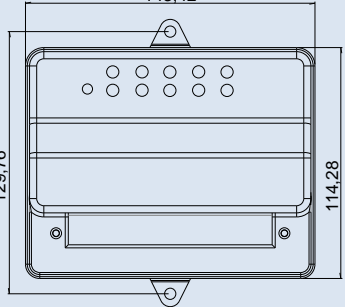
Contact phone: (47) 3350-3770

E-mail: posvendas@brustec.com.br

SOLVING FAILURES

- Reflectors do not light up: Check supply voltage, cable connection at terminal, physical integrity of shunt cables and splices.
- Remote control range is low: The control box shall be installed outdoors or if installed in a engine room for example, it automatically reduces the remote control range due to physical barriers. If necessary, place a wire to an open place on the terminal called [A], which is responsible for receiving the signal from the remote control, i.e. the antenna.
- Control does not work: Check battery.
- Control box does not turn on: Check control box fuse, supply voltage, remove the reflector cables connected to it and turn on the control box, if it works the problem may be in the reflectors or cables.
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TECHNICAL SPECIFICATIONS

DEGREE OF PROTECTION COMMAND	IP63 - Protected against dust and water splashes
DEGREE OF PROTECTION CONTROL	IP66 – Protected against dust and water jets.
MAX. CAPACITY ACTIVATION AUXILIARY OUTPUTS (RELAY)	20a/220Vac (Resistive Load) OR 2HP/220Vac (Inductive - Motors)
EQUIPMENT SUPPLY	12Vcc
MAXIMUM POWER FOR REFLECTORS	72W
DIMENSIONS OF THE EQUIPMENT	143,42 129,76 114,28 

SOLVING FAILURES

- Reflectors do not light up: Check supply voltage, cable connection at terminal, physical integrity of shunt cables and splices.
- Remote control range is low: The control panel shall be installed outdoors or if installed in a engine room for example, it automatically reduces the remote control range due to physical barriers. If necessary, route a wire to an open location on the terminal labeled [A], which is responsible for receiving the signal from the remote control.
- Control does not work: Check battery, if it is good press 10 sec the ON/OFF button of the control and test.
- Control panel does not turn on: Check the supply voltage, remove the cables from the reflectors connected to it and connect the control panel, if it works the problem may be in the reflectors or cables.

IDENTIFICATION OF BUTTONS



	On and Off Reflectors
	Advances RGB Effects
	Returns RGB Effects
1	Turns On and Off relay 1 output
2	Turns On and Off Relay 2 Output

T

Timer – Selects how many hours the relay 2 output will keep on.

TIMER FUNCTION – AUXILIARY OUTPUT 2

With each tap on the TIMER button (T), you select how many hours you want the pump to start (2-4-6-8-10-12 hours). If you want to disable this function at some point, just press the button (T) until you erase the green led on the numbers on the right. To reactivate, just press the (T) button and then the green LED will light up and choose how many hours you want the engine to start during the day. This cycle will be repeated every day, but if there is a power outage, it is necessary to activate the TIMER function and choose the number of hours.

EXAMPLE OF HOW IT WILL WORK

If you are setting the internal timer at 1 pm and save 8 hours, it will start counting from 1 pm, when it finishes at 8 am it will turn off, and the next day at 1 pm it will turn on again for another 8 hours and so will happen every day. Power outage or power outage will cause you to change the on and off time.

IDENTIFICATION OF TERMINALS



12V	Power 12 vdc from Source
0v	Negative 0v from Source
M	Positive for Reflectors – Connect Brown Reflector Wire
R	Negative (Red LED Color) – Connect Orange/Red Reflector Wire
G	Negative (Green LED Color) – Connect Yellow/Green Reflector Wire
B	Negative (Blue LED Color) – Connect Red/Blue Reflector Wire
A	Antenna for wire connection if remote control signal is low
C1	Common relay 1 (Input Phase)
NA1	Relay Output 1 (Phase Output to Engine)
NA2	Relay output 2 (Phase output to motor) – TIMER FUNCTION CONTROLS THIS OUTPUT
C2	Common relay 2 (Input Phase)

ELECTRICAL INSTALLATION

Control panel with rated supply voltage 12 vdc, we recommend the use of Switched Sources. Below, the connection scheme already with the use of equipment for protection (DR – Residual Circuit Breaker) that must be dimensioned according to your local installation. It is recommended that, for such safety, the installation of all equipment should be performed by a competent and qualified professional following the rules and guidelines in force.

In the electrical installation of the BRUSTEC led reflectors, it should be noted that it is expressly important that the wire splices have no contact with water or moisture, for that to happen is necessary that the installation is done by a qualified professional and also follow the NR-10 and the current regulations. To avoid problems, we advise you to use high fusion tape and insulation tape to insulate any splices. Failure to comply with this procedure will consequently void the product warranty, in case of claim.

WE ADVISE INSTALLATION OF THIS EQUIPMENT IN AN OPEN AND VENTILATED PLACE TO AVOID PROBLEMS LIKE MOISTURE AND OXIDATION WHICH NORMALLY OCCUR IN ENGINE ROOMS.

CONNECTION SCHEME FOR MAXIMUM CONSUMPTION IN 20A

Note: It is recommended to use a suppressor filter or RC when starting the engines

