Timer Switch with Daily Multiple Period Settings (Neutral Required)

Model #： BRT-408

▶ Features:

BRT-408 is the most advanced timer switch. It is controlled by a micro controller unit and has very accurate timing capability. It is designed for easy installation and retrofit, directly fit into standard wall box where both hot wire and neutral wire are present.

- One button for easy operation;
- Hidden panel of 9 keypads for setting up timer to prevent inadvertent changes;
- Up to 16 preset timing periods with precise On and Off time each day;
- Load up to 2000W;
- LCD display showing the current clock time, timing period #, and the current status of the switch;
- Good for all kinds of loads (Resistive, inductive, and capacitive);
- ABS-V0 flame resistance material; and
- Classical 86 series design and high quality build.

▶ Front View, Back View, and Hidden Panel

Fig. 1 and Fig. 2 show the front view and the back view of the wall mount unit of BRT-408 timer switch respectively.

Fig. 1   Front View   **Fig. 2**   Back View

As shown in Fig. 1, BRT-408 timer switch has an LCD display and an On/Off button on the front. The LCD display shows the current time and the current status of the switch. The On/Off button is used for turning on or turning off a load. BRT-408 timer switch also has wiring terminal blocks on its back.

When the On/Off button is pressed,

The display shows On and the load will be turned on immediately; and

When the On/Off button is pressed again,

If there is no timing period being set, the load will be turned off immediately and the display will show Off, and;

If there is timing period being set, the load will be turned on automatically during the preset timing period. Press the On/Off button will cancel the timing operation and turn off the load immediately.

Fig. 3   Hidden 9 Keypad Panel

As shown in Fig. 3, the front plate can be flipped down from the top edge. A 9 keypad panel hidden behind the front plate is used for setting up the timer. Please refer to **"BRT-408 Timer Switch Setup"** for details.

▶ **Specification Parameters:**

Input Voltage	220～240V(50Hz/60Hz)	Operation Environment	No-condensation 20-90% RH，-20℃～55℃
Wattage	2000W	Load type	All Types*
Mounting Hole Spacing	60mm	Matching Box	75mm x 75mm x 50mm
Wall Mount	86mm x 86mm x 43mm	Wall mount	116g

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Unit Dimension		Unit Weight	

* An additional adaptor is required for capacitive loads.

▶ Wiring Diagram and Installation Guide:

BRT-408 timer switch requires both the hot wire and the neutral wire for installation:

Hot wire (ACL):   Coming from the power line with 220V;

Neutral wire (ACN):   Usually coming with the hot wire; and

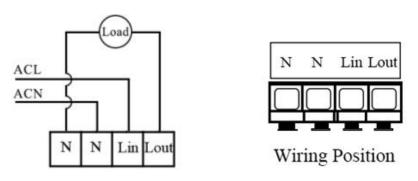Load wire: Going to the load.

Fig. 4   Wiring Diagram of Wall Mount Unit

Warning: ***Please make sure power is turned off before starting installation!***

Fig. 4 shows the wiring diagram and Fig. 5 shows the step-by-step installation instructions.

1 Use a screwdriver to pry off the front panel in position A

2 Wiring according to the Diagram

3 Install screws and the front panel

Power must be turned off before starting installation!

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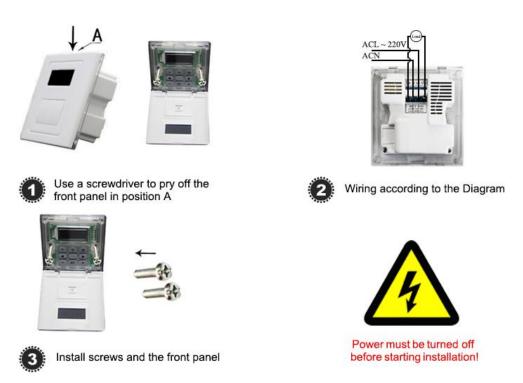www.a-brt.com.   sales@a-brt.com.

Fig. 5   Installation Guide of Wall Mount Unit

There are three easy steps:

  Step one: Use a screwdriver to pry off the front plate in position A;

  Step two: Wiring according to the diagram and the labelled ports of the switch; and

  Step three: Install screws and front plate.

▶ BRT-408 Timer Switch Setup:

1. Power the switch with 220 voltages: following the wiring diagram and Installation Guide.

2. **Set up Clock Time:**   Press and hold the **SET** button until the displayed hours flash. Press – or + to adjust the hours. Press the **SET** button again, the displayed minutes will flash, and then press – or + to adjust the minutes. Press the **SET** button again, the displayed day of the week will flash, and then press – or + to adjust the day. Finally, press and hold the SET button to save the settings.

3. **Set up Timing Period:**

    3-1. Set up the "On" time: Press and hold the **II** button until the display shows "ON" and "01" and the displayed hours flash. Press "◁" or "▷" to adjust the required "on" hours. Press **II** button again, the displayed minutes flash, and use "◁" or "▷" to adjust the required "on" minutes. Press **II** button again, the displayed seconds flash, and use "◁" or "▷" to adjust the required "on" seconds; and

    3-2. Set up the length of timing period: Right after setting up the "on" time, press **II** button again, the displayed minutes flash. Press "◁" or "▷" to adjust the required minutes of timing period. Press **II** button again, the displayed seconds flash, and use "◁" or "▷" to adjust the required seconds of timing period.

    At this point, both the "on" time and the length of timing period have been set up for timing period #1. Finally, press and hold the **II** button to save the settings or the settings will be saved automatically if there is no keypad operation for 15 seconds.

    During setup step 3-1 and 3-2, hold the   "◁" or "▷" will adjust the digits quickly.

    3-3. After setting up the first timing period, press buttons **I** or **III** to enter the previous or next timing period. Following step 3-1 and 3-2 to set up the timing period. Up to 16 timing periods can be set up. The longest timing period that can be set is 90 minutes. For a timing period longer than 90 minutes, please use overlapping timing period.

4. **Change or Delete Timing Period:**   Press and hold the **II** button for 3 seconds to enter the timing period set up mode. Pressing buttons ◁ or ▷ will select the timing period to be changed. Follow step 3-1 and step 3-2 to change the settings. If you want to delete a timing period, set the time to "--:--".

▶ Applications:

BRT-408 timer switch is used for automatically turning on and/or turning off various loads such as fans, lights, appliances, or other kinds of electrical equipment. They are perfect for saving energy and bringing convenience and safety to our daily life and work.

They have wide applications at various locations such as homes, schools, laboratories, hospitals, offices, etc. The typical application scenes include:

Schools: Automatically ring the bells according to a fixed timetable to relieve manual intervention.

Hospitals or Laboratories: Automatically turn on and turn off UV disinfection equipment to isolate operators from harmful UV exposure.

Farms: Automatically turn on or turn off breeding equipment or lighting equipment for animals.

▶ How to Order:

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