

Enclosure Installation Instructions

1. Ensure that mounting surface is flat and free from loose particles and dirt.
2. Remove the fitted product by lifting the lid and unscrewing the two screws. Then remove the upper portion from the back box by removing the 4 screws on installation. Please note that it is important to use a screwdriver of a size that allows you to properly tighten these screws on installation.
3. Take the back box and when necessary drill a small hole through the drainage point that will be at the lowest point when mounted. This is necessary to ensure that any residual moisture or condensation has an escape route at the back of the box.
4. Use a suitable drill/wall plug for the surface on which you are mounting your weatherproof enclosure and use No.8 countersunk screws (not supplied) to secure the back box through the 4 corner holes.
5. Remove a suitable cable entry cover by pushing through from the inside of the back box.
If circumstances permit the best entry point for the supply cable is the bottom one.
6. If cable entry is via 20mm conduit use the conduit gland to secure the conduit to the back box. If entry of cable is to be direct use a suitable IP rated cable gland.
7. Use only 3 core mains cable of sufficient rating for your application.
8. Screw down the upper portion to the back box ensuring the collar seal is in position between the mating surface.
See the instructions below on how to connect individual product.
9. Mount the accessory onto the box using the screws as removed in step 2. Ensure the screws are securely tightened.

Your weatherproof accessory is designed so that IP66 rating can be maintained when an appliance is plugged into the socket. This is only achieved when the cover is pressed down firmly so that the cable runs through the centre, and is fully enclosed by the special seal. Always ensure that the cover is located correctly in place. If in doubt, consult a qualified electrician.

Cleaning

If the unit needs cleaning it should be disconnected from the mains supply. Wipe the surface with a dry cloth. Do not use a damp or wet cloth or a solvent based cleaning agent, as this may damage or impair the safety of the product.

Disclaimer

This equipment is intended for domestic & light commercial use only. It must be installed in accordance with these fitting instructions. It should be fixed in the approved & conventional way to a solid or suitably safe surface. The equipment should be connected to a mains supply of the appropriate voltage (indicated on the product). If you are unsure, consult a qualified electrician before fitting. No liability can be accepted if this product is installed or used in any other way.

PLEASE NOTE: Electricity is dangerous and can kill. If you are in any doubt of how to fit your product or there appears to be damage to the wiring, please consult a qualified electrician.

TECHNICAL INFORMATION

Display:	LCD
Working Voltage:	230V-50Hz
Rated Impulse Voltage:	2,500V
Operating Temp:	-5°C to +40°C
Operation:	Integrated Control
Max Load:	
Resistive -	13A
Inductive -	6A
Isolation:	Double Pole Isolation Switch
Dimensions:	W137 x H132 x D80mm
Conforms to:	BS 1363-4:1995+A4:2012, BS EN 60730-1:2011, BS EN 60730-2-7:2010.

IP Box Conforms To: IEC 60670-1 & IEC60670-22

GUARANTEE

Your PowerBreaker Protekt IP66 Fused Timer Spur Switch is guaranteed for 5 years from the date of purchase.
This is in addition to your statutory rights.

Please keep these instructions for future reference.

INSTALLER - Please pass instruction manual onto the owner of the unit.

**GREEN
BROOK**
ELECTRICAL

WEST ROAD . HARLOW
ESSEX . CM20 2BG . UK
info@greenbrook.co.uk
www.greenbrook.co.uk

Issue no: 704498

PowerBreaker PROTEKT

**IP66 Rated Weatherproof
7 Day Fused Timer Spur Switch
- PSPT1G**

PowerBreaker Protekt products are suitable for use outdoors in severe conditions of rain and water spray as well as dust contamination to IP66 as defined by BS EN 60529. All products are for use with a 230V 50Hz supply.

INSTALLATION GUIDE - IMPORTANT

This product should be installed by a competent person and in accordance with the current IET Wiring Regulations. If in doubt, consult a qualified electrician

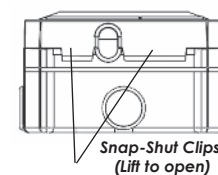
Important -

- Always disconnect the mains supply via the switch in the main fuse board or consumer unit before commencing any electrical work.
- Ensure that all terminal screws are fully tightened and that earth wires are sleeved and that no bare wires are showing.
- Cable glands must be used which maintain the IP rating. The warranty is invalid if IP rating is not maintained.

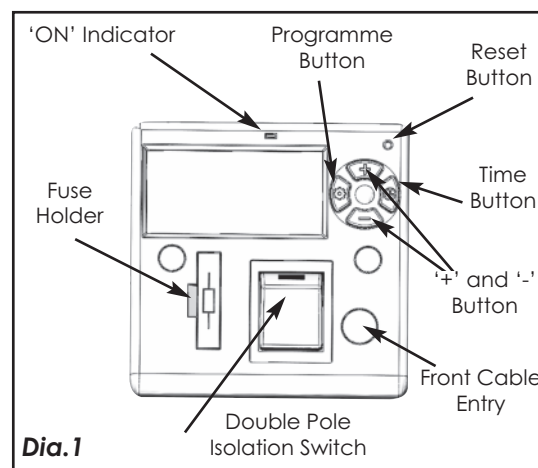
Opening the Lid

To open the lid use your thumbs to un-clip the end snap-shut clips. The lid should then pop open.

NOTE: For full Installation instructions for the enclosure please see back page.



Operating Instructions



RESET THE DEVICE

1. To fully reset this unit press the recessed 'Reset' button with a insulated blunt probe.
2. A full display will show when the battery is charged, then revert to the default screen (-- : --). No display indicates that the battery requires charging for a minimum 3 hour period. (Dia.2 - Full display)

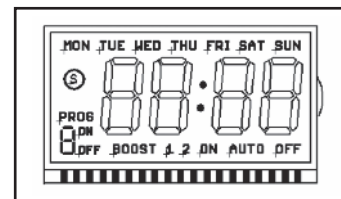
SETTING THE DAY OF WEEK AND TIME

Note: Time setting is 24 hour mode.

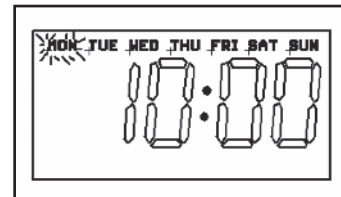
1. Press the 'TIME' button for 2 seconds. Day of week will start flashing (example shows 7 Day setting Dia.3)
2. Use the '+' or '-' button to change the display to the correct day of the week.
3. Press the 'TIME' button and the hour digits will flash. (Dia.4)
4. Use the '+' or '-' button to set the hours.
5. Press the 'TIME' button and the minute digits will flash. (Dia.5)
6. Use the '+' or '-' button to set the minutes.
7. Press the 'TIME' button to save the setting and return to operating mode.

Note: If '+' or '-' button is held for more than 2 seconds, the selected time digit will add or decrease quickly (about 5 steps per second), if no key is pressed within 60 seconds the display will return to operating mode.

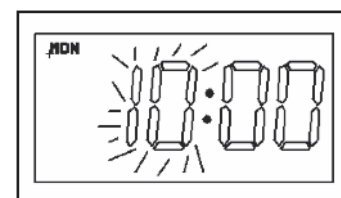
Dia.2



Dia.3



Dia.4



PROGRAMMING THE 'ON'/OFF TIMES

1. Press the 'PROG' button and hold for 2 seconds, after 2 seconds the display will show: (example shows 7 Day setting Dia.6)

Note: Only ONE of the following options can be used at one time.

2. Use the '+' or '-' button to change the day grouping (PROG) at the top of the display. This will step through the following programming options:

7 DAY - MON TUES WED THU FRI SAT SUN

All of them have the same programming.

OR

5 DAY - MON TUE WED THU FRI

Are grouped as one group, and they will all have the same programming. SAT and SUN will be programmed individually.

OR

INDIVIDUAL DAY -

Each day will have its program set individually.

MON followed automatically in programming by each of the other days. To copy times set for an individual day to another day (e.g. copy Sat set times to Sun), please see **PROGRAM DUPLICATION** below.

3. Once the desired day grouping is selected, press 'PROG' button to move onto programming ON/OFF times. Display will show PROG 1 ON, and the hour digits flashing (24 hour clock) (Dia.7).

(Example shown is for 5 + 1 + 1 + day program)

4. Use the '+' or '-' to set the hours and the 'PROG' to change between hours and minutes. Followed by '+' or '-' again to set the minutes. Press 'PROG' to change to program OFF time. (Dia.8)
5. Use the '+' or '-' to set the OFF time in the same way as for PROG 1 ON time.
6. Press 'PROG' to scroll through program 2 ON, program 2 OFF, program 3 ON, program 3 OFF, program 4 ON, program 4 OFF, adding in times as required. If you wish to omit programmes just leave dashes in that ON/OFF location. Press 'PROG' to move to the next linked day (SAT follows the 5 day group automatically) (Dia.9).
7. Set ON/OFF times as before. Press 'PROG' to move to the next linked day (SUN follows the SAT automatically) (Dia.10).
8. Set ON/OFF times as before.
9. Once program 4 OFF has been set, press 'PROG' to exit program mode and return to operating mode.

PROGRAM DUPLICATION

There are two copy functions: copy one day to another, or copy one day to all other days. When programming for 'Individual Day' or '5 Day' you can copy the programmed data from one day to another day.

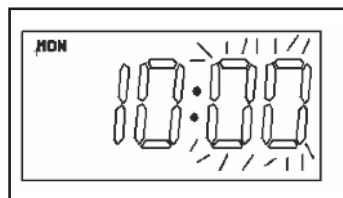
1. When setting ON time of 'PROG' 1, press 'TIME' button and then use '+' or '-' to select the day you want to copy.
2. Press 'TIME' button twice to copy the data of the selected day to current day. Or press 'TIME' button for 2 seconds to copy the data of the selected day to the following days.

(Example shown for copying data TUE to THU)

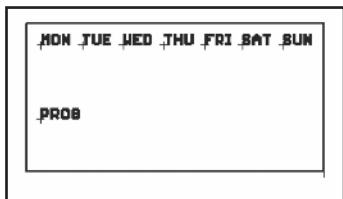
When the ON/OFF times for WED are set, the display will show 'THU':- (Dia.11).

3. Press 'TIME' button then the icon 'MON' will be flashing (Dia.12).
4. Use '+' or '-' button to select 'TUE', then press 'TIME' button twice to copy the data. The display will show: (Dia.13).

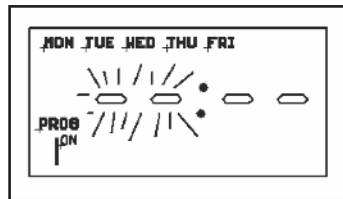
Dia.5



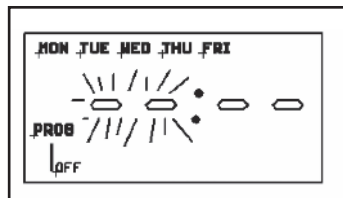
Dia.6



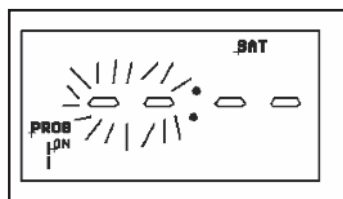
Dia.7



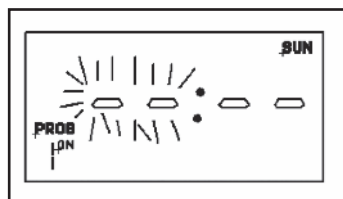
Dia.8



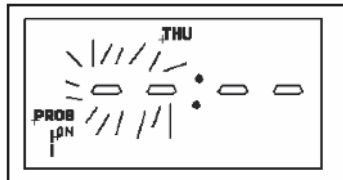
Dia.9



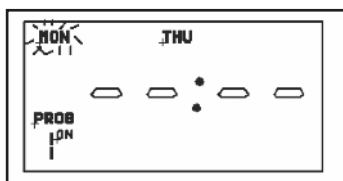
Dia.10



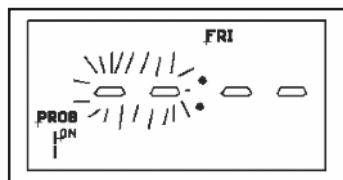
Dia.11



Dia.12



Dia.13



MODIFYING OR ADDING NEW PROGRAMMES

1. Press 'PROG' button and hold for approx 2 seconds, the display will show: (Dia.14).
2. Use '+' or '-' button to select the day grouping which requires modifying or a new day grouping for a new programme.
3. For modification press 'PROG' repeatedly to arrive at the programme time requiring modification then use '+' or '-' button to make the change. Press 'PROG' repeatedly again to arrive at the next time requiring modification and use '+' or '-' button to make the change.

OPERATING MODE

Operating mode needs to be set to allow programmed times to function

To set timer status -

1. Use '+' button to set the output mode.

ON - Output to permanently ON and omit the program (Dia.15).

OFF - Output to permanently OFF and omit the program (Dia.16).

ON AUTO - Output to ON until next program OFF period (Dia.17).

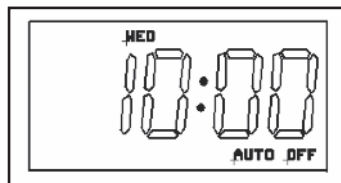
AUTO OFF - Output to OFF until next program ON period (Dia.18).

(Note - When in program mode display will always show AUTO)

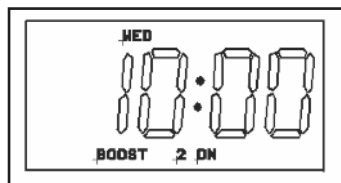
ONE AND TWO HOUR BOOST

1. Pressing '-' (Boost) once in normal operating mode turns on for 1 hour period (Dia.19).
2. Pressing '-' (Boost) twice turns output on for a 2 hour period (Dia.20).
3. Pressing '-' (Boost) button three times cancels the (Boost) ON period (Dia.21).

Dia.14



Dia.15



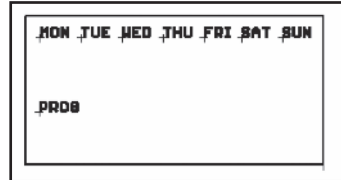
SUMMER MODE

1. In operating mode, pressing the 'PROG' and 'TIME' (combination of buttons) to set the summer mode. The clock will forward on one hour (showing the icon Ⓢ Dia.22).

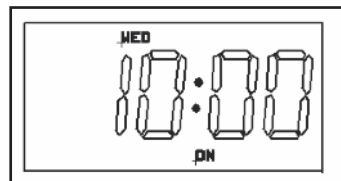
(Example: the clock will change to '11.00', if the time is '10.00' now press "PROG" and "TIME".)

Note: Pressing the 'PROG' and 'TIME' (combinations of buttons) to exit the summer mode.

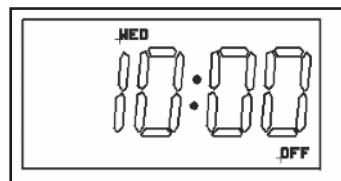
Dia.14



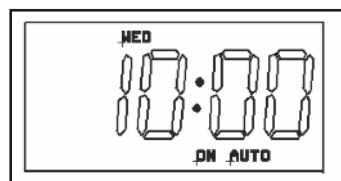
Dia.15



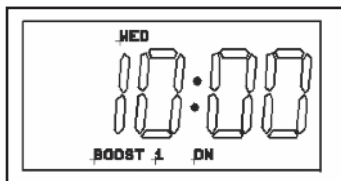
Dia.16



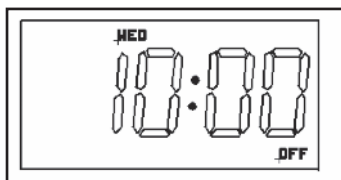
Dia.17



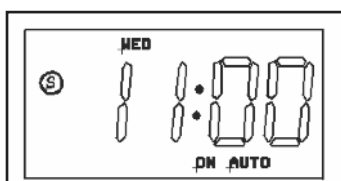
Dia.19



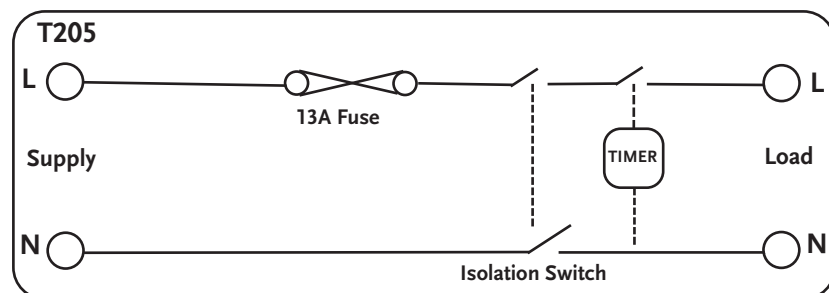
Dia.21



Dia.22



Wiring Diagram



Battery Back up / Life

Note: Battery is fully charged after 14.5 hours.

The non-replaceable, fully charged battery, will retain any program information for a period of 700 hours should there be power loss or the unit switched off with the double pole isolation switch.

Display is not visible during this period unless a button is pressed.