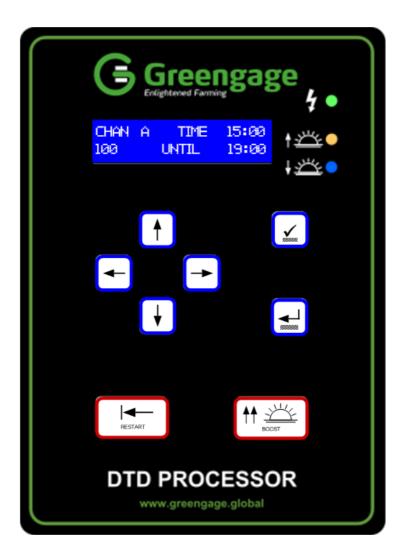


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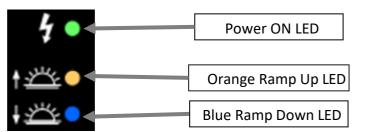
DTD Controller Instructions







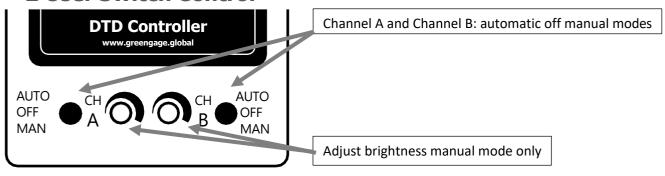
1 LED Indicators



(Flashing = UPS/battery Solid = mains power)

(Flashing = cycle ramping Solid = cycle complete)

2 User Switch Control



3 Programming Instructions

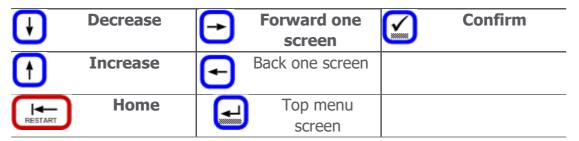
• Event Numbering



Event 1-10 = channel A

Event 11-20 = channel B

Button Meanings

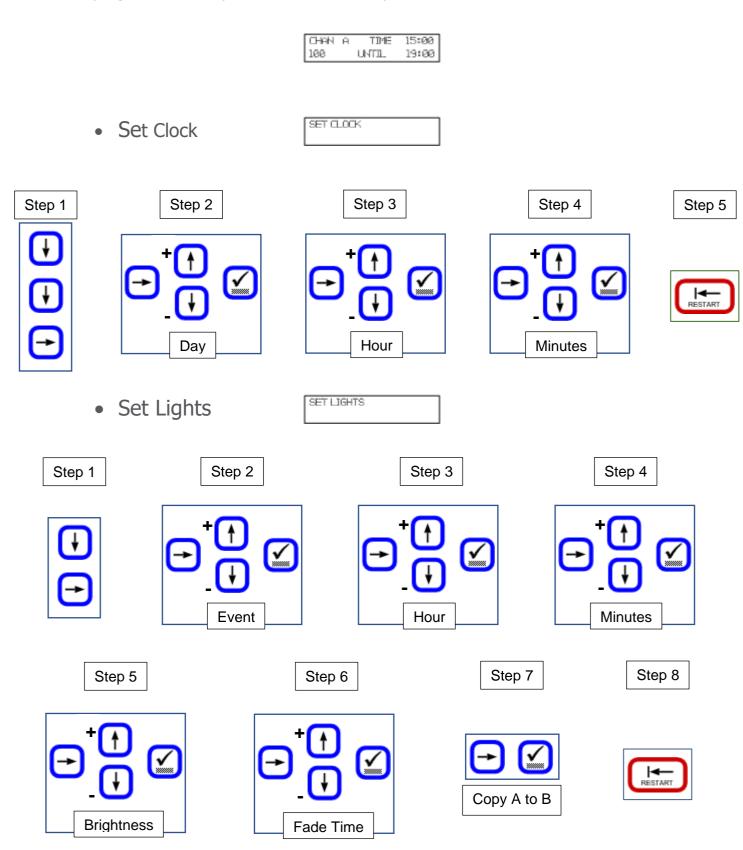




Immediate max light for 10 minutes. Hold for 10 seconds and confirm.

Press ENTER again to add an additional 10 mins

To program the DTD please follow these sequences from the home screen:



• Must repeat for all available events. See section 4 for details.

4 Working Out the Light Events

Creating a table of events helps keep track of what should be happening.

Important Points

Events must be programmed in order between 00:01 and 23:59.

Event 1 is the first change to occur after 00:00.

Any unused events must be programmed to match the last used event to ensure the correct patten of lighting. This can be seen in the tables below.

In this example there are only 2 events, out of a total of 10 possible events.

Ch A	Time	Brilliance	Fade Time
Event 1	21:00	0%	5
Event 2	22:00	100%	15
Event 3	22:00	100%	15
Event 4	22:00	100%	15
Event 5	22:00	100%	15
Event 6	22:00	100%	15
Event 7	22:00	100%	15
Event 8	22:00	100%	15
Event 9	22:00	100%	15
Event 10	22:00	100%	15

Event 1 - 9pm the lights go off, with a fade down time of 5 minutes.

Event 2 - 10pm the lights come on, with a fade up time of 15 minutes.

In this example there are 4 events, out of a total of 10 possible events.

Ch A	Time	Brilliance	Fade Time
Event 1	02:00	100%	15
Event 2	04:00	0%	5
Event 3	06:00	100%	15
Event 4	22:00	0%	5
Event 5	22:00	0%	5
Event 6	22:00	0%	5
Event 7	22:00	0%	5
Event 8	22:00	0%	5
Event 9	22:00	0%	5
Event 10	22:00	0%	5

Event 1 - 2am the lights come on, with a fade up time of 15 minutes.

Event 2 - 4am the lights go off, with a fade down time of 5 minutes.

Event 3 - 6am the lights come on, with a fade up time of 15 minutes.

Event 4 - 10pm the lights go off, with a fade down time of 15 minutes.

If you require further assistance, please contact support@greengage.global

5 Dip Switch Settings

There are a total of 3 dip switches within the DTD.

Dimmer Configuration Settings

2 of the dip switches are easily located on the circuit board positioned near the bottom of inside of the cover.

These dip switches are set based on the number of dimmers connected.

The DTD Panel is designed to work with up to 4 dimmers joined in parallel on both channel A and B, totalling 8 over both channels.

On install the dip switches are required to be set to match the dimmer quantity on both channel A and B.



1 dimmer per channel



2 dimmers per channel

3 dimmers = 1, 2 and 3 "ON"

4 dimmers = 1, 2, 3 and 4 "ON"

Event and Ramp Control

The third dip switch is located on the main circuit board, housed inside the metal enclosure inside the cover.



In the basic setting, with all switches down, Channel A and B have 10 events each to set up, 5 ramps up and 5 ramps down.

Normal ramp speed from zero to one hundred percent.

1% is 0.07V

The Greengage DTD should be set with switches 1-3 down and switch 4 on.



Channel A and B have 10 events to set up, 5 ramps up and 5 ramps down.

Fast ramp to 1.9v signal output, followed by normal ramp to one hundred percent.

1% is 2.06V

For additional information on this dip switch and its settings please see Appendix 1.

Appendix 1: DTD Dip Switch Settings



MODE 1

With all switches in the down position the unit is set to single channel basic mode. This provides one relay output and one 0-10v output. The ramp up/down settings remain the same as set regardless of which day the unit is on.



MODE 2

With switch 2 in the up position and all other switches in the down position the unit is set to two channel basic mode. This provides two relay outputs and two 0-10v outputs. The ramp up/down settings remain the same as set regardless of which day the unit is on.



MODE 3

With switch 1 in the up position and all other switches in the down position the unit is set to one channel cycle mode. This provides one relay output and one 0-10v output. Cycle mode allows the user to have 5 successive lighting patterns i.e., cycle 1 run for 5 days at one preset on/off time and maximum brilliance setting, then cycle 2 for the next 3 days at a new preset on/off time and maximum brilliance and so on up to cycle 5.



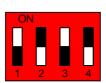
MODE 4

With switches 1 and 2 in the up position and all other switches in the down position the unit is set to two channel cycle mode. This provides two relay outputs and two 0-10v outputs. Cycle mode allows the user to have 5 successive lighting patterns i.e., cycle 1 run for 5 days at one preset on/off time and maximum brilliance setting, then cycle 2 for the next 3 days at a new preset on/off time and maximum brilliance and so on up to cycle 5.



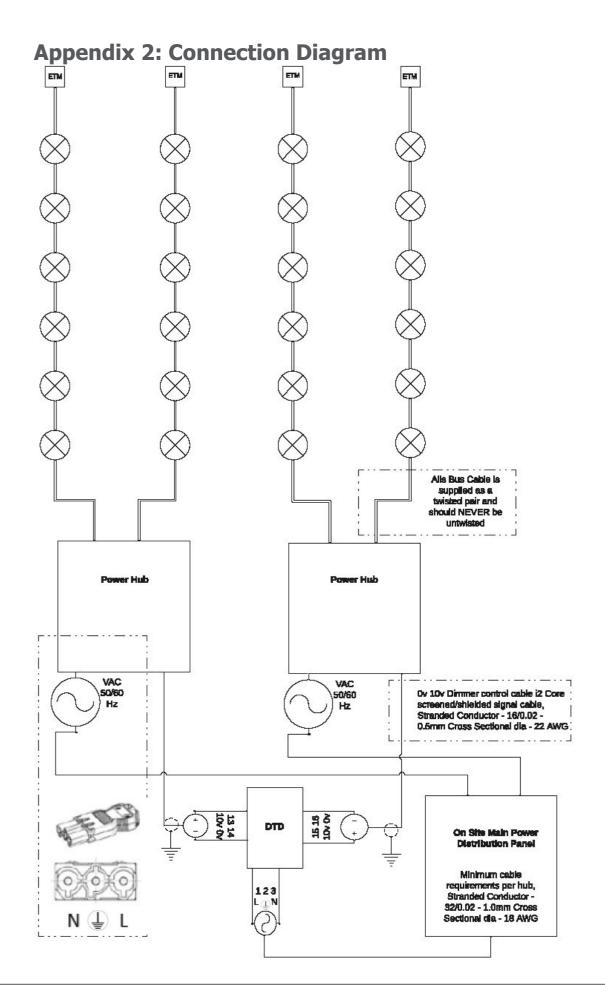
MODE 5

With switch 3 in the up position and all other switches in the down position the unit is set to single channel basic mode with sunset delay. This provides one relay output and one 0-10v output. The Ramp up/ down settings remain the same as set regardless of which day the unit is on.



MODF 6

With switches 1 and 3 in the up position and all other switches in the down position the unit is set to single channel cycle mode and sunset delay. This provides one relay output and one 0-10v output. The ramp up/down settings remain the same as set regardless of which day the unit is on. Cycle mode allows the user to have 5 successive lighting patterns i.e., cycle 1 run for 5 days at one preset on/off time and maximum brilliance setting, then cycle 2 for the next 3 days at a new preset on/off time and maximum brilliance and so on up to cycle 5.



Appendix 3: Template lighting cheat sheet

