



Repeat Cycle Timer

Model: RCT-24

MistKing® Repeat Cycle Timer (RCT-24) is ideally suited to control MistKing® misting system in repeated patterns. Please note that you can have different ON and OFF cycles during the day and night. RCT-24 is a perfect choice for aeroponics and many plant growing applications. Current time, length of ON and OFF for Day and Night cycles, as well as DAY and NIGHT start can all be configured.

MistKing® Repeat Cycle Timer does not use a photo cell to specify Day and Night modes. In our experience, a photo cell often incorrectly gauges the start of day and night due to physical timer placement, shade, and conditions of the environment, which leads to undesired configurations and user preferences. Instead of a photo cell, MistKing® timers rely on specific Day and Night times controlled by an internal clock. Extending Day and Night, if needed, is very easily accomplished.

Example: Current Time 3:30 pm. Day starts at 6am, Night set to start at 6 pm. Day ON 4sec, OFF 2 min. Night ON 5 sec OFF 60 min. The timer will work in a continuous and repeating pattern during the day, misting for 4 sec every 2 min. At 6 pm, it will switch into NIGHT mode and will mist for 5 sec every 60 min.

Repeat Cycle Timer Connection

1. Connect the **BLUE** lead on the repeat cycle controller to the power adapter of your MistKing misting system.
2. Connect the **BLACK** lead to your pump and ZipDrip (if available). DO NOT plug ZipDrip to blue lead.



NOTE: Repeat controller works only with MistKing systems and therefore requires additional MistKing components to work properly.

Using the repeat cycle timer with non-MistKing equipment voids warranty.



LCD Display



Timer is ON and connected MistKing® system is misting

Timer is OFF and idle

Current time clock



System is in day mode

System is in night mode

Setup Instructions:

1. Set Current Time (picture A):

In normal status, press "⌚" key once to set the current time. Press "⌚" key to switch between hour, minute and seconds. Press up arrow or down arrow to adjust the values when flashing.

NOTE: Clock is in 24H mode and not AM/PM

2. Set ON duration for DAY & NIGHT modes

a. Set the "MODE" (picture B):

In normal status, press "SET" key once, the current mode flashes, press up arrow or down arrow key to switch between "AUTO, ON and OFF". Choose the desired mode, then press "SET" key once.

ON - Always ON

OFF - Always OFF

AUTO - uses configured cycle programs for Day and Night

NOTE: Programmed functions work only in AUTO mode

b. Set ON duration for day - "DAY START" time (picture C):

When "hour" of "DAY START" flashes, press "⌚" key to switch between hour, minute and second; press "up arrow" or "down arrow" to adjust the values when flashing.

c. Set "NIGHT START" time (picture D):

After setting "DAY START" time setting, press "SET" key once. When "hour" of "NIGHT START" flashes, press "⌚" key to switch between hour, minute and second; press "up arrow" or "down arrow" key to adjust the value when flashing.



3. Set OFF duration for DAY & NIGHT modes:

REMEMBER: Programmed operation of the timer works only in AUTO mode (see 2a)

a. Set "DAY STOP" time (picture E):

After finishing "NIGHT START" time setting, press "SET" key once. When "hour" of "DAY STOP" flashes, press "0" key to switch between hour, minute and second; press "up arrow" or "down arrow" key to adjust the value when flashing.

b. Set "NIGHT STOP" time (picture F):

After finishing "DAY STOP" time setting, press "SET" key once. When "hour" of "NIGHT STOP" flashes, press "0" key to switch between hour, minute and second; press "up arrow" or "down arrow" key to adjust the value when flashing.

4. Set "DAY FROM" and "NIGHT FROM" time (picture G):

NOTE: Specify when DAY & NIGHT start. Default setting 06:00 and 18:00

a. After setting "NIGHT STOP" press "SET" key once. When "hour" of "DAY FROM" flashes, press "0" key to switch between hour, minute and second; press up arrow or down arrow key to adjust the value when flashing.

b. Set "NIGHT FROM" time (picture H):

After finishing "DAY FROM" time setting, press "SET" key once, When "hour" of "NIGHT FROM" flashes, press "0" key to switch between hour, minute and second. Press up arrow or down arrow keys to adjust the values while flashing.

c. After finishing "NIGHT FROM" time setting, press "SET" key once to save and exit.



Tips:

a) RAPID ADJUST: While setting individual values, press and hold "up arrow" or "down arrow" for faster advancement of settings

b) SAVE & EXIT: When done modifying values press and hold "SET" key for 3 seconds to Save & Exit. Alternatively don't input anything for 15 seconds and timer will exit automatically saving and displaying the main screen.

c) RESET: In normal status press UP and DOWN arrows together for 5 seconds. Timer will reset to factory settings and clear any programming to 00:00:00

Quick-ON Function:

In normal status, press and hold up arrow key for 5 seconds to active the quick-on function. While pressed the timer will activate allowing you to quickly bypass any timer settings and manually activate the misting system. Quick ON, does not affect any settings. When up arrow is released, timer resumes normal operation and misting stops.

Energy-Saving:

If there is no key activity on the RCT-24 for approximately 10 minutes the LCD back light auto turns off. Pressing any key will reactivate the back light again.

MENU ITEM	Description	Settings Range
MODE	Specifies if timer is permanently ON, OFF or in AUTO. Only AUTO mode will follow set ON and OFF cycles during day and night	AUTO / ON / OFF
DAY START	Duration of ON cycle during the day	Max Cycle length 12:59:59
NIGHT START	Duration of ON cycle during the night	Max Cycle length 12:59:59
DAY STOP	Duration of OFF cycle during the day	Max Cycle length 12:59:59
NIGHT STOP	Duration of OFF cycle during the night	Max Cycle length 12:59:59
DAY FROM	Time when DAY starts	02:00:00 - 10:00:00
NIGHT FROM	Time when NIGHT starts	16:00:00 - 22:00:00
CLOCK	Internal Timer Clock. Based on current time precise DAY and NIGHT operation is possible.	00:00:00 - 23:59:59

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