



BN-LINK U97S Digital Repeat Cycle Timer Instruction Manual

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BN-LINK[®]

BN-LINK U97S Digital Repeat Cycle Timer



Set cycle time ON duration time and OFF duration time

1. To set the hour press **SET** to enter the ON duration time setting, the timer will be displayed in HH:MM format.



The number to the left of ":" will flash. (HH:MM format represents HH hours and MM minutes.)

2. Press or to set the number of "hours" for the ON uration lime. The setting range is 00-23.

3. Press **SET** again to lock in the settings. There will be two possibilities, see steps 1.3A and 1.3B respectively.

- A If your hours are 00 hours, your time will be shown in ON MM: SS format. The number to the left of " : " will flash. (MM: SS format, representing MM minutes and SS seconds.)

- A.1 Press or to set the number of "minutes" for the ON duration time. The setting range is 00-59. ON

- A.2 To lock in the setting, press **SET** again. The number to the right of " : " will flash.



- A.3 Press or Set the number of "second" for the ON duration time. The setting range is 00-59.


- A.4 Under current settings, the ON duration lime setting are all completed, and the number just set

represents that the ON running duration time is 00 hours XX minutes XX seconds. Press **SET** to enter the OFF-duration time setting and skip to step 1.4.

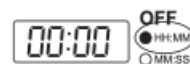
- B If the setting is not 00 hours, the number to the right of " : " will flash.






- B.1 Press  or  to set the number of "minutes" for the ON duration time. The setting range is 00-59.
- B.2 Under current settings, the ON duration time settings are all complete, and the numbers represent

that the ON duration time is XX hours XX minutes 00 seconds. Press  Enter the OFF-duration time setting and skip to step 1.4.

4. Once you are in the OFF-duration time setting, your time will be shown in HH:MM format. The number to the left of " : " will flash. (HH:MM format represents HH hours and MM minutes.)






5. Press  or  to set the number of "hours" for the OFF-duration time. The setting range is 00-23.



6. To lock in the setting, press  again. There are two ways of setting it, see steps 1.6A and 1.6B respectively.


- A If your hours are 00 hours, then it will be shown in the ON MM:SS system. The number to the left of " : " will flash. (MM: SS format, representing MM minutes and SS seconds.)



- A.1 Press  or  to set the number of "minutes" for the OFF duration time. The setting range is 00-59.



- A.2 Press  again. The number to the right of " : " will flash.

- A.3 Press  or  to set the number of "second" for the OFF duration time. The setting range is 00-59.


- A.4 Under current settings, the OFF duration time settings are all completed, and the number just set represents that the OFF running duration time is 00 hours XX minutes XX seconds. Press  to save the above settings and exit.

- B If the setting is not 00 hours, the numbers to the right of " : " will flash.






- B.1 Press  or  to set the number of "minutes" for the OFF-duration time. The setting range is 00-59.

- B.2 Under current settings, the OFF-duration time setting is all complete, and the number just set

represents that the OFF running duration time is XX hours XX minutes 00 seconds. Press  to save the above settings and exit.

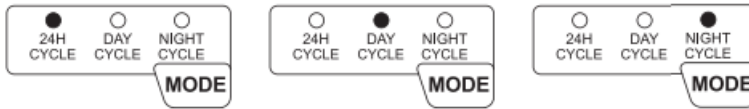
- 1.7 When any digit is flashing, extended press  or  The digits can be changed quickly.

- 1.8 When any digit is flashing, simultaneously press  and  The current digit is restored to 00. If you operate while setting the ON duration time, all the settings of the ON duration time will be restored to 00; if you operate while setting the OFF duration time, all the settings of the OFF duration time will be restored to 00.

- 1.9 When any digit is flashing, pressing  will not interfere the loop.

Set the cycle mode

- The product has three cycle modes: 24H CYCLE, DAY



- Cycle mode and its opening conditions:

- 24H CYCLE MODE: It does not involve the light sensor. The timer will always run the cycle set. Cycle operation ON duration time and OFF duration time
- DAY CYCLE MODE: It involves the light sensor. When the light sensor detects the daytime, the cycle is started, until the night is detected, the cycle will stop, and the cycle restarts once daylight is detected again.
- NIGHT CYCLE MODE: It involves the light sensor. When the light sensor detects the night, the cycle starts, and the cycle will stop after the day is detected. The cycle will restart once the night is detected again.

24H CYCLE operation

- After switching to 24H CYCLE mode, the timer will keep running according to the ON duration time and OFF duration time set.
- When the timer is running the ON duration time, the output indicator light is on, and the product socket starts to output. Described separately in two cases, see A and B. ON 0



- If the ON duration time is set to HH hours MM minutes
 - A.1 " : " flashes, this means the ON time is counting down, and it ends after the remaining XX hours and XX minutes. After counting down until there is only 1 minute left, the numbers to the left of " : " are hidden, and only " :59-+ :58-+ ... -+ :01-+ :00" is displayed, indicating that the ON time countdown ends after XX seconds. During the entire ON time countdown, the output indicator is on, and the product socket will have power output.
 - A.2 When " :00" is displayed, the ON time countdown has ended, the output indicator light is off, and the product socket discontinues the power output. Immediately switch to the OFF time countdown and skip to step 3.4.
 - A.3 While switching to OFF mode, the number of ON duration time is restored and remains unchanged. ON 0



- If the ON duration time is set to XX minutes XX seconds
 - 3.3B.1 " : " does not flash. The number to the right of " : " will change every second, this means that the ON time is counting down, and it means that the remaining XX minutes XX seconds will end.
 - B.2 When "00:00" is displayed, the ON time countdown ends, the output indicator is off, and the product socket discontinues the output. Immediately switch to the OFF time countdown and skip to step 3.4.
 - 3.3B.3 When switching to the OFF time countdown, the number of ON duration time is restored and

remains unchanged.

5. After the above-mentioned ON time countdown ends, it will automatically switch to OFF time countdown.

During this period, the output indicator is off, and there is no output from the product socket. The OFF time is counted down and described separately in two cases, see steps 3.5A and 3.5B. OFF o



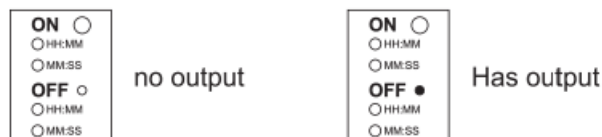
6. A If the OFF duration time is set to XX hours XX minutes

- A.1 " : " flashes, it means that the OFF time is counting down, and it means it ends after XX hours and XX minutes are left. After counting down until only 1 minute is left, the number on the left of ":" is hidden, and only ":59-+:58-+ ... -+:01-+:00" is displayed, which means the OFF time countdown ends after XX seconds. During the entire OFF time countdown, the output indicator light is off, and there is no output from the product socket.
- A.2 When ":00" is displayed, the OFF time countdown ends, the output indicator light is on, and the product socket starts output. Immediately switch to the ON time countdown again and skip to step 3.2.
- A.3 At the same time as the ON time counts down again, the OFF time previously entered is restored and remains unchanged. OFFo



- B If the OFF duration time is set to XX minutes XX seconds 3.5B.1 ":" does not flash. The numbers to the right side of ":" will change every second, this means the OFF time is counting down, and it means that the remaining XX minutes XX seconds will end.
- B.2 When "00:00" is displayed, the OFF time countdown ends, the output indicator light is on, and the product socket starts output. Immediately switch to the ON time countdown again and skip to step3.2.
- B.3 At the same time as the ON time counts down again, the OFF time previously entered is restored and remains unchanged.

7. The location of the output indicator is shown in the figure:



DAY CYCLE operation

When entering DAY CYCLE mode, the timer will use its light sensor to determine if it is daytime, the cycle runs according to the ON duration time and OFF duration time set in Chapter 1. It will stop the loop when night is detected and start the loop again when day is detected again. Details as follows:

1. When the light sensor determine that it is daytime, the cycle will begin and will operate the same as 24H CYCLE mode, please refer to chapter 3.2-3.5.
2. When the light sensor detects the arrival of night, it will stop the loop. Regardless of whether it is in the ON time countdown or the OFF time countdown. The timer will stop, once the night is confirmed, the ON time and OFF time will be restored to timer previously entered and remain unchanged. During the stop cycle, keep the output indicator off, and will be no output from the product socket.
3. When the light sensor detects the arrival of daylight again, the cycle will start.
4. As long as it does not switch to other cycle modes, it will cycle as described in 4.1-4.3.
5. During the day and night, it is detected by the light sensor, and there will be a delay of about 1 minute for



confirmation to prevent the short-term influence of lights or obstructions.

NIGHT CYCLE operation

When switching to NIGHT CYCLE mode, the timer will use the light sensor to determine if it is night, the cycle runs according to the ON duration time setting and OFF duration time setting. It will stop the loop until the day is detected and starts the loop again when the night is detected again. Details as follows:

1. When the light sensor detects that it is night, the cycle is started. The operation is the same as 24H CYCLE mode, please refer to chapter 3.2-3.5.
2. When the light sensor detects the arrival of day, it will stop the cycle. Regardless of whether it is in the ON time countdown or the OFF-time countdown. The timer will stop, once the day is confirmed, the ON time and OFF time will be restored to the setting previously entered and remain unchanged. During the stop cycle, keep the output indicator off, and there will be no output from the product socket.
3. When the light sensor detects the arrival of night again, the cycle will start.
4. As long as it does not switch to other cycle modes, it will cycle as described in 5.1-5.3.
5. During the day and night, the light is detected by the light sensor, there will be a delay of about 1 minute for confirmation to prevent the short-term influence of lights or obstructions.

Others

1. Modify ON duration time or OFF duration time: Press  As described in Chapter 1, to save the latest modified content after setting. Once you enter the setting interface, the output indicator will go out and the product socket will disconnect the output.
2. Toggle loop mode: Press  to switch, the corresponding cycle mode indicator will light up and save. Each time the cycle mode is switched, it will run automatically according to the conditions of the new cycle mode. The ON duration time or OFF duration time will be restored to the set value first.
3. Reset: Whether during the cycle running or stopping the cycle, simultaneously press (3) and 0 for more than 3 seconds to restore the factory settings.



Technical parameters

- Supply Voltage: 125VAC, 60Hz
- Operating Temperature: 32°F-140°F
- Storage Temperature: -4°F-140°F
- Cycle Setting Range: 1 second to 23:59 minutes (ON duration and OFF duration)
- Indoor use only
- Do not exceed electrical ratings

Documents / Resources



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U97S, Digital Repeat Cycle Timer, U97S Digital Repeat Cycle Timer