

Operating instructions for Trop Moonlighttimer



Article No. 7/II

1. Power-on

After power-on the device will start up showing the current time. If the internal buffer battery has been drained it will start with all segment on for a short time, followed by displaying 12:00. This state may also be reached by pushing the reset button at the bottom of the device.

2. Buffering

The internal buffer battery supplies the clock and holds all data settings for approximately 48 hours if the power net fails. Full loading of the buffer battery will take at least 3 days.

3. Reset

The reset button is located at the bottom side of the device. A label with an arrow points to a small hole of approx. 1 mm diameter. Insert the end of paper clip into this small boring and press gently until you will hear a slight click or until the display will show 12:00.

4. Setting the clock

After pressing the **SET** - key the first digit starts blinking. Now push the \uparrow - key repeatedly until the desired digit will show up. Proceed with the next digit by pressing the **SET** - key again. Setting is terminated at the fourth digit with pushing the **SET** - key again.

5. Setting the moon timer

The red LEDs indicate whether the display shows an on-time or an off-time. The moon timer is factory preprogrammed with 22:00 on - time and 11:00 off - time. These times may be easily changed by the user by pressing the **ON-Moon**-key or the **OFF**-key. Doing so the corresponding time appears in the display and the according LED starts blinking. Now you have 5 seconds to commence programming using the **SET** - key and the \uparrow - key in the same manner as the programming the clock. If you miss the 5 seconds the device will revert to the normal clock display operation. Setting the moon timer is terminated at the fourth digit with pushing the **SET** - key again.

6. Setting the common timers

The device handles 2 programmable timer. Timer 1 is factory programmed with 11:30 on-time and 21:30 off-time. Timer 2 switches on at 10:55 and off at 22:05. Checking the timers is done by simply pressing the timer keys 1 or 2 showing the on-time for the selected timer. Die LED on starts blinking. Pressing the same Timer key again shows the off-time and the LED off blinks. With pushing once again the display resumes normal operation. The timer programming has to be entered within 5 seconds using the **SET** - key and the \uparrow - key similar to the clock and moon programming.

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7. Moon synchronisation

The moon days display at the left reflects the intensity of the incandescent lamp connected to the moon outlet at the rear. "01" stands for lowest intensity (new moon) and "16" for maximum intensity (full moon). "01" to "16" are for increasing moon, "16" to "01" are for decreasing moon. By pressing the **key MOON COUNT** the moonlighttimers moon state can be synchronised with the real world moon phase.

8. Testing

By pushing the key **ON/OFF** all outlet will switch on or off. The moon and timer LEDs will switch accordingly. When the green Moon - LED is on the variation of intensity of the moon outlet may be tested by repeatedly pushing the button **MOON-COUNT**.

9. Outlets

Moon outlet:

electronic switch for 300 watts for incandescent lamps only.
Status indicator - green LED. Fuse max. 1,6 amps fast.
Not suitable for fluorescent lamps or LED lamps.

Timer1 and Timer2:

1000 watts relay outlets (not for HQI - lamps with more than 400 watts)
Status indicators yellow LEDs. Fuse max. 4,0 amps fast.

10. Notes

HQI - lamps with more than 400 watts are not permitted to be operated directly by the timer outlets. But timer outlets may drive a power relay which in turn could drive the HQI - lamps.

Increasing the current values of the fuses of the device above the values stated voids the guarantee for the device.

Timer outlets will become active only after passing a programmed switching time.

Subject to technical change without prior notice!