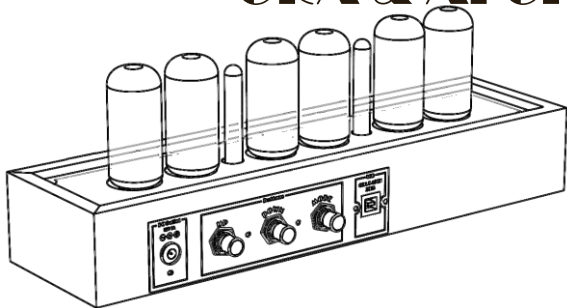


GRA & AFCH



*Divergence
Meter*

NIXIE CLOCK (8 TUBES)

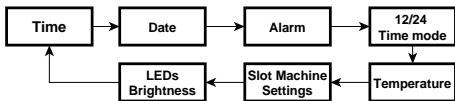
OPERATING INSTRUCTION

2036

Release 1.63

GENERAL GUIDE

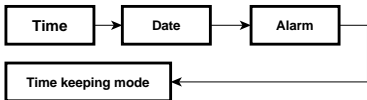
1. Press "Mode" to change from mode to mode. Each mode is explained in detail on the following pages.



TIMEKEEPING MODE

To set the digital time

1. Hold down "Mode" while in the Timekeeping Mode until the hours digits start to flash. The hours flash because they *are selected*.
2. Press "Mode" to change the selection in the following sequence:

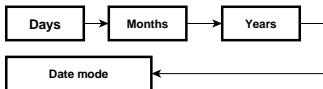


- Once you reach the Timekeeping display, you have to hold down "Mode" again to display flashing hours.
 - While the digits are selected (flashing), hold down "Mode" to return in Timekeeping Mode without saving.
3. While any digits are selected, press "Up" to increase the number, or "Down" to decrease the number. Holding down "Up" or "Down" changes the current selection at high speed.
 4. After you set the time, press "Mode" to select the Timekeeping Mode.
 - If you do not operate any button for a few minutes while selection is flashing, the flashing stops and the clock goes back to the Timekeeping Mode automatically.

DATE MODE

To set the date

1. Hold down "Mode" while in the Date Mode until the days digits start to flash. The days digits flash because they *are selected*.
2. Press "Mode" to change selection in following sequence:



- Once you reach the Date Mode, you have to hold down "Mode" again to display the flashing days.
 - While the digits are selected (flashing), hold down "Mode" to return in Timekeeping Mode without saving.
3. While any digits are selected, press "Up" to increase the number, or "Down" to decrease the number. Holding down "Up" or "Down" changes the current selection at high speed.

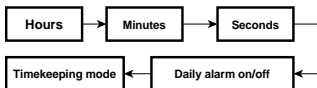
- After you set the date, press "Mode" to select the Date Mode.
 - If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the clock goes back to the Date Mode automatically.
 - The clock does not make validation for correct date. So the clock will not return to Date Mode if the date is incorrect.

ALARM MODE

When the Daily Alarm Function is switched on, the alarm sounds at the preset time each day. Press any button to stop the alarm after it starts to sound.

To set the alarm time

- Hold down "Mode" while in Alarm Mode until the hour digits start to flash. The hour digits flash because they are selected.
- Press "Mode" to change selection in the following sequence.



- Press "Up" or "Down" buttons to increase or decrease selected digits. Holding down buttons changes the selections at high speed.
- Daily alarm on/off mode is represented by upper separate dots, press "Up" or "Down" to enable or disable daily alarm.
 - Entering in Alarm Mode always switches daily alarm on.
 - If you do not operate any buttons a few minutes while a selection is flashing, the flashing stops and the clock goes to the Timekeeping Mode.

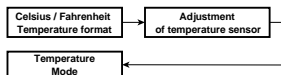
12/24 Hours Mode

To change 12/24 mode

- Enter in 12/24 mode settings, by holding down "Mode" button until 12 or 24 digits start to flash.
- Press "Up" or "Down" buttons to switch between 12 and 24 modes.
- After you set time format, press "Mode" button to return in Timekeeping mode.
 - If you do not operate any buttons a few minutes while a selection is flashing, the flashing stops and the clock goes to the Timekeeping Mode.

Temperature Mode

To change temperature format Celsius/Fahrenheit or adjust showings of sensor

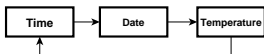


- Enter in temperature mode settings, by holding down "Mode" button until digits start to flash.
- Press "Up" or "Down" buttons to switch between Celsius and Fahrenheit formats.
- After you set the temperature format, press "Mode" button to enter in temperature adjusting mode.

4. Press "Up" or "Down" buttons to up or down a temperature reading by 0.1 Celsius degrees.
5. After you adjust temperature sensor press "Mode" button to return in Temperature mode.

Slot Machine Effect Settings (Cathode Anti-polsoning)

To prevent cathode "poisoning" clock automatically switches modes in the following sequence:



1. Enter in Slot Machine Effect Settings, by holding down "Mode" button until digits start to flash.
2. Press "Up" or "Down" buttons to increase or decrease a time between starts of slot machine effect (in minutes).
3. After that press "Mode" button and by pressing "Up" or "Down" buttons setup a display time for each mode (in seconds).

RGB LED Brightness

To change brightness of RGB backlight

1. Enter in LEDs Brightness mod, by holding down "Mode" button until all LEDs start to flash.
2. Press "Up" or "Down" buttons to increase or decrease a brightness. Brightness can be adjusted from 0 to 99.
3. Press "Mode" button to store selected value.

RGB LED Backlight

To disable LED backlight

1. Hold down "Down" until the LED backlight turns off.

To enable LED backlight

1. Hold down "Up" until the LED backlight turns on.

To fix color of LEDs

1. Press "Down" button.

To resume automatic LEDs color changing

1. Press "Up" button.

POWER ON SELF TEST

Immediately after a clock is powered on Self-Test is starting in the following sequence:

1. Red LEDs on.
2. Green LEDs on.
3. Blue LEDs on.
4. Tubes test which display all digits from 0 to 9 on all tubes simultaneously.
5. Firmware version.
6. Sound test.