

## 4xLC-513 Nixie clock manual

### **Clock setting:**

- **TIME**
  - Short press – changes between setting hours, minutes and seconds. After pressing TIME button three times two rightmost tubes indicate seconds. When 12h time format is set, leftmost tube's dot indicates PM time;
- **ALARM**
  - Short press – During normal clock operation changes between setting alarm hours and minutes. When 12h time format is set, leftmost tube's dot indicates PM time. After pressing ALARM button three times two rightmost tubes indicate alarm on/off ("01" - alarm is on, "00" – alarm is off). Depending on selected leftmost tube's dot mode, dot indicates alarm is on or PM time (in 12h time format) during normal clock operation. During menu setting mode changes selected feature;
  - Long press – During normal clock operation switches menu mode on/off;
- **SET**
  - Short press – during time and alarm setting increases selected tubes by one. In menu setting mode adjusts or switches selected feature on/off. During normal clock operation changes tubes and backlight brightness.
  - Long press – during time, alarm and menu setting automatically increases selected tubes. During normal clock operation switches backlight on/off;
- **Menu mode** – to enter or leave menu and store settings press ALARM button for 2s (number of selected option is indicated by two leftmost tubes, option's parameter is indicated by two rightmost tubes):
  01. time format and dot mode – blinking tubes indicate selected 12/24h time format;
  02. dot mode select – "00" – leftmost tube's dot indicates alarm is on during normal clock operation, "01" – dot indicates PM time during normal clock operation. Selecting dot mode is possible only when 12h time format is set (in 24h time format dot always indicates alarm is on). When setting time, alarm or menu in 12h time format dot always indicates PM time;
  03. neon blinking at 1Hz on/off – "00" - off, "01" - on;
  04. leading zero blanking on/off – "00" - off, "01" - on;
  05. time correction – negative correction value from 0 to -9,9s/day for canceling time measurement positive error (clock losing time);
  06. time correction – positive correction value from 0 to +9,9s/day for canceling time measurement negative error (clock gaining time);

07. tubes cycling frequency – time between displayed routines (“00” - cycling off, “01” - every 1min, “02” - every 10min, “03” - every 1hour, “04” every 24hours). Two rightmost tubes indicate selected routine);
08. tubes cycling routine – “01” - scrolling, “02” - scrolling with shifting, “03” - slot machine. To choose displayed routine tubes cycling has to be previously switched on;
09. timed dimming on/off – tubes timed dimming on/off (“00” - off, “01” - on);
10. timed dimming brightness level – brightness level during timed dimming mode (from “00” - tubes blanked to “04” - full brightness). When tubes are blanked, pressing any switch will turn them on for 15s with first brightness level. During timed dimming mode brightness adjustment is disabled. Adjustment of timed brightness level is possible only when timed dimming is enabled;
11. timed dimming on time – hours of timed dimming on time. When 12h time format is set, leftmost tube’s dot indicates PM time. To set timed dimming on time timed dimming mode has to be previously switched on;
12. timed dimming on time – minutes of timed dimming on time. To set timed dimming on time timed dimming mode has to be previously switched on;
13. timed dimming off time – hours of timed dimming off time. When 12h time format is set, leftmost tube’s dot indicates PM time. To set timed dimming off time timed dimming mode has to be previously switched on;
14. timed dimming off time – minutes of timed dimming off time. To set timed dimming off time timed dimming mode has to be previously switched on.

**Clock maintenance:** To avoid scratches always use delicate cloth or dust whisk when cleaning clock’s acrylic enclosure. For wet cleaning use cloth slightly moist with water and some detergent . Do not use any solvent or alcohol as it may damage acrylic surface!

**Power supply:** 9V DC power adapter with barrel plug connector (5,5mm/2,1mm) and minimum current output 300mA.

**Power consumption:** average 3W