CHRONIX 6xZ573M nixie clock user manual

Setting the clock:

- Black button
  - ➢ Short press – during time setting mode, changes between setting hours, minutes and seconds (selected tubes are blinking). When clock is in menu mode it changes between setting options;
  - ➢ Long press – during normal clock operation, enters/leaves menu mode.
- Yellow button
  - ➢ Short press – during time or menu setting mode, increases selected tubes by one. During normal clock operation pressing this button changes tubes (and backlight when switched on) brightness;
  - ➢ Long press – during time or menu setting mode, activates automatic increasing of selected tubes. During normal clock operation, switches tubes backlight on/off.
- Menu (number of setting option is indicated on two leftmost tubes):
  01. time format – 12/24h time format (in 12h format rightmost tube's decimal point indicates PM time);
  02. neon blinking at 1Hz on/off – "00" - off, "01" - on;
  03. leading zero blanking on/off – "00" - off, "01" - on;
  04. time correction – ±9,9s/day time correction with 0,1s resolution. Middle tubes display negative corection value from 0 to -9,9s/day for canceling time measurement positive error. Two rightmost tubes display positive correction value from 0 to +9,9s/day for canceling time measurement negative error;
  05. tubes cycling and it's frequency – middle tubes indicate 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 ("01"- scrolling, "02"- scrolling with shifting, "03"- slot machine). To choose displayed routine tubes cycling has to be previously switched on;
  06. timed dimming on/off – middle tubes indicate timed dimming state ("00" - off, "01" - on). Two rightmost tubes display tubes brightness during timed dimming mode (from "00" - tubes blanked to "04" - full brightness);
  07. timed dimming on time – middle tubes indicate hours when two rightmost tubes show minutes of timed dimming on time. To set timed dimming on time timed dimming mode has to be previously switched on;
  08. timed dimming off time – middle tubes indicate hours when two rightmost tubes show minutes of timed dimming off time. To set timed dimming off time timed dimming mode has to be previously switched on.

Settings are stored in nonvolatile memory and are restored after power interruption. Additionaly time is backed up by built-in accumulator for up to 24h (for maximum backup duration, clock has to be powered for several hours till the built-in accumulator is fully charged).

Clock maintenance: To avoid scratches always use delicate cloth or dust whisk when cleaning clock's acrylic top plate and tubes. For wet cleaning use cloth slightly moist with water and mild 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