Sheet: Monitor

File: Monitor.sch

Sheet: Controller

File: Controller.sch

This page contains a KiCad schematic diagram titled "Monitor" (File: Monitor.sch), Sheet: /Monitor/, Size: A4, Id: 2/3.

Schematic — Sheet: /Controller/, File: Controller.sch

Size: A4 — Id: 3/3 — KiCad E.D.A. kicad (5.1.5-0-10_14)

Components visible:

- J7 TE_3.5mm_Screwless_P2
- U4 LM7805_TO220
- C14 100nF, C15 100uF 50V, C16 100nF - 100V, C26 1uF
- C19 100nF - 100V, C30 100nF - 100V, C29 100nF - 100V
- R27 10k, R28 10k, R36 10k
- U5 XPRESS-40, USB
- PROG_CONN, J24 Conn_01x08
- R15 470, R17 470
- I2C Interface LCD_C, J12 (LCD_SCL, LCD_SDA)
- S3 MPXV5004DP, R13 470, C17 100nF - 100V, C18 1uF
- R18 10k, R19 10k, R20 10k, R21 10k, R22 10k, R23 10k
- R16 470
- J18 BREATH, J10 BPM, J19 EP, J16 IP, J20 +, J17 -
- SV2 J8, D2 1N4007, C24 1uF, C22 1uF, Q2 IRLZ34N, R14 50
- J13 BUZZER_C
- J11 UART, PR3
- S4 MPXV5004DP, R29 470, C27 1uF, C28 100nF - 100V
- R30 10k, R31 10k, R32 10k
- J21 VOL_MIN, J23 VOL_MAX, J22 VOL
- SV3 J9, D3 1N4007, C25 1uF, C23 1uF, Q3 IRLZ34N, R26 50
- TP5 TestPoint, TP6 TestPoint, TP7 TestPoint, TP8 TestPoint

Pin labels on U5: RE3, RA0, RA1, RA2, RA3, RA4, RA5, RE0, RE1, RE2, VDD, GND, RA7, RA6, RC0, RC1, RC2, RC3, RD0, RD1, TGDAT, TGCLK, RB5, RB4, RB3, RB2, RB1, RB0, VDD, GND, RD7, RD6, RD5, RD4, RC7, RC6, RC5, RC4, RD3, RD2

Net labels: +12V_C, +5V_C, GND, nMCLR_C, ICSPDAT_C, ICSPCLK_C, PR2, SV2, PR3, SV3, SCL, SDA