

Fahrpult 2 Portbelegung Arduino Mega

Dokumentversion: v08

Ver. 28.09.2023

| Arduino Pin Name | Port | Pre-defined | Name SW | Platine | Anschluss | I/O | |
|------------------|------|-------------|-------------|---------|-------------------------|------------|--|
| AREF | - | - | | | | | |
| GND | - | - | | | | | |
| 13 | PB7 | LED | | P5.5 | (U1.2/3) RS485 | Out | |
| 12 | PB6 | PWM | | P5.6 | (R8) LED gelb | Out | |
| 11 | PB5 | PWM | | P5.7 | (R7) LED Blau | Out | |
| 10 | PB4 | PWM | | J23.5 | LCD CS | Out | |
| 9 | PH6 | PWM | | J23.8 | LCD BL | Out | |
| 8 | PH5 | PWM | | J23.7 | LCD RST | Out | |
| 7 | PH4 | PWM | | J23.6 | LCD DC | Out | |
| 6 | PH3 | PWM | | J27.4 | LED DispL. CLK | Out | |
| 5 | PE3 | PWM | | J27.3 | LED DispL. DIO | Out | |
| 4 | PG5 | PWM | | J26.4 | LED DispR CLK | Out | |
| 3 | PE5 | PWM | | J26.3 | LED DispR DIO | Out | |
| 2 | PE4 | | | P6.6 | (R6) LocoNet | Out | |
| 1 | PE1 | TX0 | Serial() | | | Out | |
| 0 | PE0 | RX0 | Serial() | | | In | |
| 14 | PJ1 | TX3 | Serial3 | J25.2 | Nextion II | Out | |
| 15 | PJ0 | RX3 | Serial3 | J25.3 | Nextion II | In | |
| 16 | PH1 | TX2 | Serial2 | J24.2 | Nextion RX | Out | |
| 17 | PH0 | RX2 | Serial2 | J24.3 | Nextion TX | In | |
| 18 | PD3 | TX1 | XpressNet() | P7.5 | (U1.4) RS485 | Out | |
| 19 | PD2 | RX1 | XpressNet() | P7.6 | (U1.1) RS485 | In | |
| 20 | PD1 | SDA (I2C) | | P7.7 | nc | | |
| 21 | PD0 | SCL (I2C) | | P7.8 | nc | | |
| 22 | PA0 | | PINA | J29.1 | rotary switch 1 | In pull-up | |
| 23 | PA1 | | PINA | J29.2 | rotary switch 2 | In pull-up | |
| 24 | PA2 | | PINA | J29.3 | rotary switch 3 | In pull-up | |
| 25 | PA3 | | PINA | J29.4 | rotary switch 4 | In pull-up | |
| 26 | PA4 | | PINA | J6.1 | SW_V | In pull-up | |
| 27 | PA5 | | PINA | J6.3 | SW_R | In pull-up | |
| 28 | PA6 | | PINA | J5.5 | Taste PB_L | In pull-up | |
| 29 | PA7 | | PINA | J5.7 | Taste PB_R | In pull-up | |
| 30 | PC7 | | PINC | P1.25 | nc | In pull-up | |
| 31 | PC6 | | PINC | P1.26 | nc | In pull-up | |
| 32 | PC5 | | PINC | P1.23 | nc | In pull-up | |
| 33 | PC4 | | PINC | P1.24 | nc | In pull-up | |
| 34 | PC3 | | PINC | J29.8 | rotary switch 8 | In pull-up | |
| 35 | PC2 | | PINC | J29.7 | rotary switch 7 | In pull-up | |
| 36 | PC1 | | PINC | J29.6 | rotary switch 6 | In pull-up | |
| 37 | PC0 | | PINC | J29.5 | rotary switch 5 | In pull-up | |
| 38 | PD7 | | | J16.1 | LED tbd | Out | |
| 39 | PG2 | | | J16.3 | LED tbd (white) | Out | |
| 40 | PG1 | | | J16.5 | LED tbd (red) | Out | |
| 41 | PG0 | | | J16.7 | LED Messpin | Out | |
| 42 | PL7 | | | J11.1 | LED Reserve | | |
| 43 | PL6 | | | J11.3 | LED Reserve | | |
| 44 | PL5 | | | J11.5 | LED Reserve | | |
| 45 | PL4 | | | J11.7 | LED Reserve | | |
| 46 | PL3 | | | J11.9 | Reserve | | |
| 47 | PL2 | | | J11.11 | Reserve | | |
| 48 | PL1 | | | P1.7 | (U2.7, R1) LocoNet | | |
| 49 | PL0 | | | P1.8 | nc | | |
| 50 | PB3 | | | J30.3 | J33.3 SPI MISO | In | |
| 51 | PB2 | | | J23.3 | SPI MOSI | Out | |
| 52 | PB1 | | | J23.4 | J30.4, J33.4 SPI SCK | Out | |
| 53 | PB0 | | | J33.6 | J30.5, J33.5 CS microSD | Out | |

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|-----|-----|--|------|-------|------------------------|------------|--|
| A0 | PF0 | | PINF | J2.2 | Taste tbd | In pull-up | |
| A1 | PF1 | | PINF | J2.4 | J5.3 Taste Test_P | In pull-up | |
| A2 | PF2 | | PINF | J2.6 | Taster Licht (F0) | In pull-up | |
| A3 | PF3 | | PINF | J2.8 | Taster Entkuppler (F2) | In pull-up | |
| A4 | PF4 | | PINF | J2.10 | Taster Horn (F4) | In pull-up | |
| A5 | PF5 | | PINF | J2.12 | Taste tbd | In pull-up | |
| A6 | PF6 | | PINF | J2.14 | Taste tbd | In pull-up | |
| A7 | PF7 | | PINF | J2.16 | Taste tbd | In pull-up | |
| A8 | PK0 | | | J1.2 | SW Jog Wheel | In | |
| A9 | PK1 | | | J1.4 | DT Jog Wheel | In | |
| A10 | PK2 | | | J1.6 | CLK Jog Wheel | In | |
| A11 | PK3 | | | J1.8 | J13.2 Poti FahrS | Ain | |
| A12 | PK4 | | | J1.10 | J12.2 Poti BVerz | Ain | |
| A13 | PK5 | | | J1.12 | J9.2 Poti FBrV | Ain | |
| A14 | PK6 | | | J1.14 | Reserve SW Serial | Out | |
| A15 | PK7 | | | J1.16 | Reserve SW Serial | In | |

Taste: Momenttaster, schaltet bei Tastendruck

Schalter: z.B. Kipp- oder Drehschalter, Stellung bleibt beim Loslassen erhalten

Änderungen

| | | | |
|------------|-------|---|--|
| 03.12.2021 | V. 06 | 3 weitere Pult-Taster festgelegt an J2.6, J2.8, J2.10 | |
| 14.09.2022 | V.07 | statt Keyboard rotary-Switch, 4 weitere Pult-Taster | |
| 28.09.2023 | V.08 | Drehimpulsgeber A8, A9, A10 | |