

Bild 1

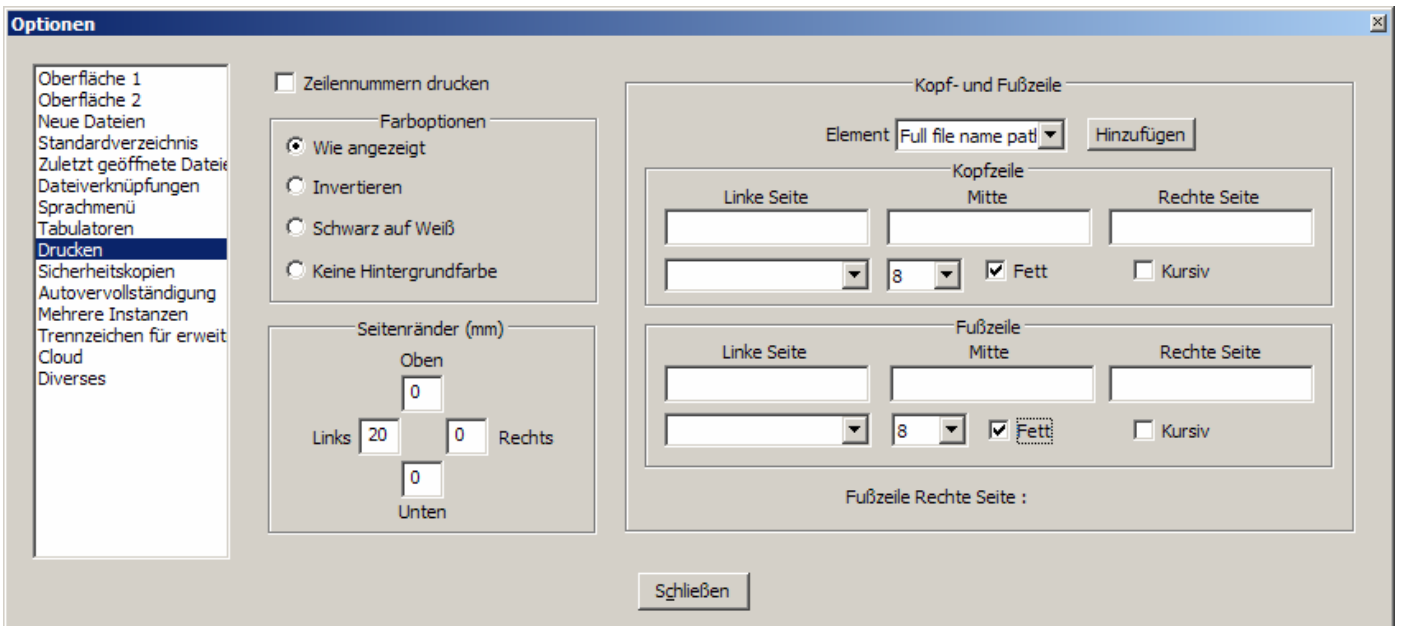


Bild 2

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*new 1 - Notepad++
Datei Bearbeiten Suchen Ansicht Kodierung Sprachen Einstellungen Makro Ausführen Erweiterungen Fenster ?
new 1 x
135 ;-----
136 ; Start, Power ON, Reset, Ports, Interrupt
137
138 Main:
139     ldi    R16    ,    LOW (RAMEND)    ; for Stackpointer LOW
140     out    SPL    ,    R16            ; INIT Stackpointer LOW
141
142     ldi    R16    ,    HIGH(RAMEND)    ; for Stackpointer HIGH
143     out    SPH    ,    R16            ; INIT Stackpointer HIGH
144
145     ldi    R16    ,    0b00111111    ; PORTB Bits 0 until 5 = Output
146     out    DDRB   ,    R16            ; PORTB Bits 6 and 7 = Quartz
147     ldi    R16    ,    0b00000000    ; PORTB Bits 0 until 7 = 0
148     out    PORTB  ,    R16            ;
149
150     ldi    R16    ,    0b00000000    ; PORTC Bits 0 until 7 = Input
151     out    DDRC   ,    R16            ;
152     ldi    R16    ,    0b00001111    ; PORTC Bits 0 until 3 = 1 (Pullup)
153     out    PORTC  ,    R16            ; PORTC Bit 4 = ADC Input for DC
154                                     ; PORTC Bit 5 = ADC Input for AC
155                                     ; Pullup would adulerate the Measuring Value !
156
157     ldi    R16    ,    0b11111111    ; PORTD Bits 0 until 7 = Output
158     out    DDRD   ,    R16            ;
159     ldi    R16    ,    0b00000000    ; PORTD Bits 0 until 7 = 0
160     out    PORTD  ,    R16            ;
161
162 ;-----
163 ; Timer/Counter2: 64 kHz an B.3
164
165     ldi    R16    ,    (1<<COM20) | (1<<WGM21) | (1<<CS20)
166     out    TCCR2  ,    R16            ; COM20 = Toggle B.3
167                                     ; WGM21 = CTC, TOP OCR2
168                                     ; CS20 = Prescaling 1
169
170     ldi    R16    ,    0b00011111    ; 4096000 / 32 = 128000 Hz (B.3 = 64000 Hz)
171     out    OCR2   ,    R16            ;
172
173     ldi    R16    ,    (1<<OCIE2)    ; Timer/counter2 Output Compare
174     out    TIMSK  ,    R16            ; Match Interrupt Enable
175
176 ;-----
177 ; ADC
178
179     ldi    R16    ,    (1<<ADEN) | (1<<ADIF) | (1<<ADIE) | (1<<ADPS2) | (1<<ADPS0)
180     out    ADCSRA ,    R16            ; ADC Enable
181                                     ; ADC Interrupt Flag
182                                     ; ADC Interrupt Enable
183                                     ; ADC Prescale 32
184
185 ;-----
186 ; 8-Bit Timer/Counter0
187
188     ldi    R16    ,    (1<<CS02) | (1<<CS00)
189     out    TCCR0  ,    R16            ; Prescale 1024
190
191     ldi    R16    ,    131            ; count upwords 131 bis 256 = Overflow
192     out    TCNT0  ,    R16            ; these are 125 Increments

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Assembly language source length : 91658 lines : 3704 Ln : 1 Col : 15 Sel : 0 | 0 Dos\Windows UTF-8 w/o BOM INS

Bild 3