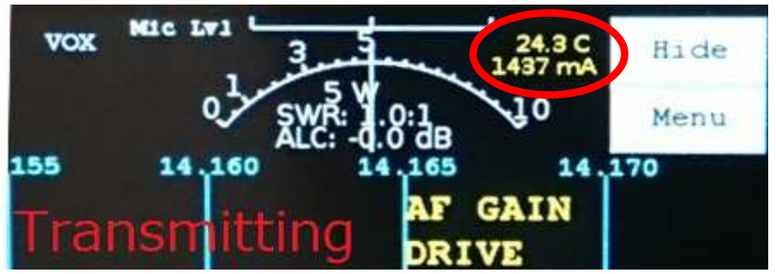
◆ Analog meter : Add Temperature, PA current

17 Dec. 2017 JI1UDD



Source file : meter.c (v1.2.2)

F:¥ReadOnly¥piHPSDR¥171203_v122_source¥meter.c - Rekisa

ファイル(F) 編集(E) 表示範囲(V) ツール(T) 設定(C) ヘルプ(H)

Original

```
206  /* Event signals */
207  g_signal_connect (meter, "button-press-event",
208          G_CALLBACK (meter_press_event_cb), NULL);
209  gtk_widget_set_events (meter, gtk_widget_get_events (meter)
210                  | GDK_BUTTON_PRESS_MASK);
211
212  return meter;
213 }
214
215
216 void meter_update(RECEIVER *rx,int meter_type,double value,double reverse,double exciter,double al
217
218  char text[128];
219  char sf[32];
220  int text_location;
221  double offset;
222  cairo_t *cr;
223  cr = cairo_create (meter_surface);
224
225 if(analog_meter) {
226  cairo_set_source_rgb (cr, 0.0, 0.0, 0.0);
227  cairo_paint (cr);
228
229  cairo_set_font_size(cr, 12);
230
231  switch(meter_type) {
```

Mod

```
218  char text[128];
219  char sf[32];
220  int text_location;
221  double offset;
222  int    temp_adc, pa_cur_adc ;
223  double temp_deg, pa_cur_ma ;
224  cairo_t *cr;
225  cr = cairo_create (meter_surface);
226
227 if(analog_meter) {
228  cairo_set_source_rgb (cr, 0.0, 0.0, 0.0);
229  cairo_paint (cr);
230
231  temp_adc = (int) exciter_power ;
232  temp_deg = (3.26 * ((double)temp_adc/4096.0) - 0.5)/0.01 ;
233  cairo_move_to(cr, 160, 15);
234  cairo_set_font_size(cr, 10);
235  cairo_set_source_rgb(cr, 1.0, 1.0, 0.0);
236  sprintf(sf,"%.1f C",temp_deg);
237  cairo_show_text(cr, sf);
238  cairo_new_path(cr);
239
240  cairo_set_source_rgb (cr, 0.0, 0.0, 0.0);
241  cairo_set_font_size(cr, 12);
242
243  switch(meter_type) {
```

F:¥ReadOnly¥piHPSDR¥171203_v122_source¥meter.c　1 行 1 字　utf-8

```
419      double swr=(max_level+reverse)/(max_level-reverse);
420      if(swr<0.0) swr=1.0;
421      sprintf(sf,"SWR: %1.1f:1",swr);
422      cairo_move_to(cr, 60, meter_height-12);
423      cairo_show_text(cr, sf);
424
425      sprintf(sf," ALC: %2.1f dB",alc);
426      cairo_move_to(cr, 60, meter_height-2);
427      cairo_show_text(cr, sf);
428
429
430      }
431      break;
432  }
433
434  if((meter_type==POWER) || (vox_enabled)) {
435    offset=((double)meter_width-100.0)/2.0;
436    double peak=vox_get_peak();
437    peak=peak*100.0;
438    cairo_set_source_rgb(cr, 0.0, 1.0, 0.0);
439    cairo_rectangle(cr, offset, 0.0, peak, 5.0);
440    cairo_fill(cr);
441
```

```
440      sprintf(sf," ALC: %2.1f dB",alc);
441      cairo_move_to(cr, 60, meter_height-2);
442      cairo_show_text(cr, sf);
443
444      pa_cur_adc = (int) AIN3 ;
445      pa_cur_ma  = 3.26*(double)pa_cur_adc/4096.0/50.0/0.04*1970.0/1500.0*1000.0;
446      cairo_move_to(cr, 150, 25);
447      cairo_set_font_size(cr, 10);
448      cairo_set_source_rgb(cr, 1.0, 1.0, 0.0);
449      sprintf(sf,"%4d mA",(int)pa_cur_ma);
450      cairo_show_text(cr, sf);
451      }
452      break;
453  }
454
455  if((meter_type==POWER) || (vox_enabled)) {
456    offset=((double)meter_width-100.0)/2.0;
457    double peak=vox_get_peak();
458    peak=peak*100.0;
459    cairo_set_source_rgb(cr, 0.0, 1.0, 0.0);
460    cairo_rectangle(cr, offset, 0.0, peak, 5.0);
461    cairo_fill(cr);
462
```

1000.0 (R109)

1270.0 (R108+R109)

Beta5