Kontroler TC

Izdelano s pomočjo Doxygen 1.8.9.1

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2 abecedni seznam

Poglavje 2

seznam datotek

2.1 seznam datotek

Seznam vseh datotek s kratkim opisom:

//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Cas_funkcije.h
//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Configuration.h
//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Encoder_butt.h
//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Eprom_external.h
//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Ethernet_funk.h
//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Gas_Sensor.h
//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Kontr_TC.h
//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Kontr_TC_izvrs.h
//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Kontr_TC_spl.h
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//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Temperature.h
//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Tok_napetost.h
//Pro03/github/KontrolerTC H/KontrolerTC Mega2560 v1/Zapisi sd.h

seznam datotek

Poglavje 3

Opis razreda

3.1 Množica fl2byte4b

```
#include <Configuration.h>
```

Javni atributi

- byte by [4]
- float fval

3.1.1 Podroben opis

Definirano v 184 vrstici datoteke Configuration.h.

3.1.2 Opis atributov

3.1.2.1 byte by[4]

Definirano v 185 vrstici datoteke Configuration.h.

3.1.2.2 float fval

Definirano v 186 vrstici datoteke Configuration.h.

Opis unije je zgrajen na podlagi naslednje datoteke :

• //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Configuration.h

3.2 Množica ui2byte2

```
#include <Configuration.h>
```

Javni atributi

- byte by [2]
- unsigned int uival

6 Opis razreda

3.2.1 Podroben opis

Definirano v 189 vrstici datoteke Configuration.h.

3.2.2 Opis atributov

3.2.2.1 byte by[2]

Definirano v 190 vrstici datoteke Configuration.h.

3.2.2.2 unsigned int uival

Definirano v 191 vrstici datoteke Configuration.h.

Opis unije je zgrajen na podlagi naslednje datoteke :

• //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Configuration.h

3.3 Množica ul2byte4b

#include <Configuration.h>

Javni atributi

- byte by [4]
- · unsigned long ulval

3.3.1 Podroben opis

Definirano v 179 vrstici datoteke Configuration.h.

3.3.2 Opis atributov

3.3.2.1 byte by[4]

Definirano v 180 vrstici datoteke Configuration.h.

3.3.2.2 unsigned long ulval

Definirano v 181 vrstici datoteke Configuration.h.

Opis unije je zgrajen na podlagi naslednje datoteke :

//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Configuration.h

Poglavje 4

Opis datoteke

4.1 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Cas_funkcije.h

Funkcije

- void NarediTimeStr (char *cas, unsigned long tcas, boolean izpSec)
- boolean IsWeekend (void)

4.1.1 Opis funkcije

4.1.1.1 boolean IsWeekend (void)

Definirano v 22 vrstici datoteke Cas_funkcije.h.

4.1.1.2 void NarediTimeStr (char * cas, unsigned long tcas, boolean izpSec = true)

Definirano v 12 vrstici datoteke Cas_funkcije.h.

4.2 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Configuration.h

Strukture

- union ul2byte4b
- union fl2byte4b
- union ui2byte2

Makro deklaracije

- #define VERSION "v1"
- #define MAXSENSORS 9
- #define MAXSENSORS_DS 7
- #define MAX_DHT22_SENS 1
- #define NED 1
- #define SOB 7
- #define USEEGRELEC false
- #define STATE TC ON 1
- #define STATE_TC_OFF 0

- #define R_CRAD_ON LOW
- #define R_CRAD_OFF HIGH
- #define R_CTC_ON LOW
- #define R_CTC_OFF HIGH
- #define CEV TERM ON LOW
- #define CEV_TERM_OFF HIGH
- #define R TC EGREL ON LOW
- #define R_TC_EGREL_OFF HIGH
- #define R_TC_VENT_ON LOW
- #define R_TC_VENT_OFF HIGH
- #define R_TC_KOMP_ON LOW
- #define R TC KOMP OFF HIGH
- #define STATE_CRP_TC_ON 1
- #define STATE CRP TC OFF 0
- #define STATE_VENT_TC_ON 1
- #define STATE VENT TC OFF 0
- #define STATE_VENT_TC_NDEF 255
- #define SENS TOK 12V A2
- #define T_KTYP_01_PIN A3
- #define CO_SENS_APIN A6
- #define SENS_V5_3 A7
- #define SENS_V12 A8
- #define SENS V5 2 A9
- #define SENS_RTC_BATT A10
- #define SENS TOK A11
- #define SENS_3V3_SD A12
- #define CO_DOUT_PIN 11
- #define CO_PWR_PIN 12
- #define ENC_DT_PIN 2
- #define ENC_CLK_PIN 3
- #define ENC_SW_PIN 4
- #define ENC PIN A ENC DT PIN
- #define ENC_PIN_B ENC_CLK_PIN
- #define NRF24_CE 8
- #define NRF24_CSN 9
- #define ETHER_CS_PIN 10
- #define ETHER_RESET_PIN 23
- #define LCD_OSW_SW 7
- #define LCD RS 22
- #define LCD_EN 24
- #define LCD D4 25
- #define LCD D5 26
- #define LCD_D6 27
- #define LCD_D7 28
- #define BEEP_PIN 29
- #define ONE_WIRE_BUS 30
- #define DHTPIN 31
- #define DHTTYPE DHT22
- #define CEVTERM_PEC_TC 32
- #define STIKALO_CRP_RAD_ON 33
- #define STIKALO CRP RAD OFF 34
- #define STIKALO_CRP_TC_ON 35
- #define STIKALO_CRP_TC_OFF 36
- #define STIKALO_TC_ON 37
- #define STIKALO_TC_OFF 38

- #define RELE_TC_KOMP 39
- #define RELE_TC_VENT 40
- #define RELE CTC 41
- #define RELE CRAD 42
- #define RELE_TC_EGREL 43
- #define VENTTC_1 47
- #define VENTTC_2 48
- #define VENTTC EN 49
- #define SD CS PIN 53
- #define DS1307_CTRL_ID 0x68
- #define TIME MSG LEN 11
- #define TIME_HEADER 'T'
- #define AT24C32_I2C_ADDR 0x50
- #define AT24C32_MAX_ADDR 4096
- #define AT24C32 ADDR LENGH 2
- #define OKOLICA 07
- #define CRPALKA_0 1
- #define PEC PV 2
- #define PEC DV 3
- #define RAD PV 4
- #define RAD DV 5
- #define PEC TC DV 6

Uporabniško definirani tipi

• typedef uint8_t DeviceAddress[8]

Funkcije

- void Beep (unsigned char)
- LiquidCrystal lcdA (LCD_RS, LCD_EN, LCD_D4, LCD_D5, LCD_D6, LCD_D7)
- DHT dht (DHTPIN, DHTTYPE)
- OneWire ds (ONE WIRE BUS)
- void FiksAdrrSens (DeviceAddress devAddress[], byte *type_s)

Spremenljivke

- int numSensDS = 0
- int numSensDHT22 = 1
- int numSensK = 1
- int numSens
- float kTypeOffset = 0.0
- char sensorIme [MAXSENSORS][6] = {"Okol", "ToCrp", "PecPV", "PecDV", "RadPV", "RadDV", "PecTC", "Okol", "Dimn"}
- · ui2byte2 u2
- boolean showCRC = true
- unsigned int merXMin = 1
- float minTempVTOn = 37.5
- int minRunTimeMin = 10
- float dTemp = 5.0
- float minTempNightOn = 32.5
- float ciljnaTemp = 52
- float ciljnaTempWeekend = 48

- float min_TempOK_TCKomp = 5.0
- float max_TempOK_TCKomp = 35.0
- float maxDovTempVodeTC_Komp = 64.0
- float deltaTh
- float deltaThOk
- float deltaThSt
- const float tKompOK = 20.0
- const float tKompSt = 50.0
- int zamikMerTemp = 15
- int uraVTemp [] = {6, 21}
- int dolPrehObd = 121
- int startUraVT = 6
- int startUraNT = 22
- float mejaToka = 1.0
- float tempVklopaCrpTC = 82.5
- float histCrpTC = 4.95
- float minDiffTCPec = 2.0
- float templzklopaVentCrpTC = 60.0
- float minTempPecPonovnoOdpVent = 55.0
- int minCrpTCRunTimeMin = 2
- int zaksnitevCrpVent_Sec = 20
- int minCrpRadRunTimeMin = 7
- byte prevCrpRadState = 0
- float minDiffDvOkolCrpRad = 10.0
- float minMejnaTempRel = 0.399
- float maxTempPVRad = 50.0
- float maxTempDVPec = 90.01
- float maxDeltaDev = 5.0
- boolean isCrpRadAsAbsTemp = true
- static float vccInternal = 5.0
- unsigned int addrLastChg = 0
- unsigned int addrPrevTCState = 4
- unsigned int addrOnTime = 5
- unsigned int addrDeltaTh = 9
- unsigned int addrDeltaThOk = 13
- unsigned int addrDeltaThSt = 17
- unsigned int addrLastHourTemp = 40
- unsigned int addrTempBack = 400
- unsigned int histLen = 168
- int zapisXMin = 60
- float cTemperatura [MAXSENSORS]
- byte type_s [MAXSENSORS]
- float sumTemp [MAXSENSORS+MAX_DHT22_SENS]
- float cVlaznost [MAX_DHT22_SENS]
- float cHumidex [MAX_DHT22_SENS]
- float cTempRosicsa [MAX_DHT22_SENS]
- unsigned long onTimeTC = 0
- · byte prevTCState
- unsigned long lastTCStateChg = 0
- byte releState_ventKompTC = R_TC_VENT_OFF
- byte releState kompTC = R TC KOMP OFF
- byte releState_egrelecTC = R_TC_EGREL_OFF
- byte stateTC = STATE TC OFF
- unsigned long lastCrpTCStateChg
- unsigned long onTimeCrpTC =0

- unsigned long lastCrpRadStateChg
- unsigned long onTimeCrpRad =0
- unsigned long casMeritve
- unsigned long prevCasMeritve
- float hitrGret = 0
- float startTemp
- · float lastDeltaTh
- float lastDeltaThOk
- float lastDeltaThSt
- float lastHourTempChange
- unsigned long lastRunTime
- float tempOkolicaSt
- float porabaWH = 0.0
- float zacPorabaWH
- float Qv
- float We
- float Vrms = 230.0
- byte manuCrpTCState = 0
- · int coRawVal
- int osvetlitevLCD = 0
- float sumTok_12V = 0.0
- float maxTok 12V
- unsigned long nMerTok_12V = 0
- char infoErr [8]
- · ul2byte4b u4
- · fl2byte4b uf
- int limTempCrpRad [24]
- float limTempFactCrpRad [24]
- int crpRadAsAbsTemp [24]

4.2.1 Opis makro definicije

4.2.1.1 #define AT24C32_ADDR_LENGH 2

Definirano v 148 vrstici datoteke Configuration.h.

4.2.1.2 #define AT24C32_I2C_ADDR 0x50

Definirano v 146 vrstici datoteke Configuration.h.

4.2.1.3 #define AT24C32_MAX_ADDR 4096

Definirano v 147 vrstici datoteke Configuration.h.

4.2.1.4 #define BEEP PIN 29

Definirano v 97 vrstici datoteke Configuration.h.

4.2.1.5 #define CEV_TERM_OFF HIGH

Definirano v 36 vrstici datoteke Configuration.h.

4.2.1.6 #define CEV_TERM_ON LOW

Definirano v 35 vrstici datoteke Configuration.h.

4.2.1.7 #define CEVTERM_PEC_TC 32

Definirano v 103 vrstici datoteke Configuration.h.

4.2.1.8 #define CO_DOUT_PIN 11

Definirano v 71 vrstici datoteke Configuration.h.

4.2.1.9 #define CO_PWR_PIN 12

Definirano v 72 vrstici datoteke Configuration.h.

4.2.1.10 #define CO_SENS_APIN A6

Definirano v 60 vrstici datoteke Configuration.h.

4.2.1.11 #define CRPALKA_0 1

Definirano v 170 vrstici datoteke Configuration.h.

4.2.1.12 #define DHTPIN 31

Definirano v 100 vrstici datoteke Configuration.h.

4.2.1.13 #define DHTTYPE DHT22

Definirano v 101 vrstici datoteke Configuration.h.

4.2.1.14 #define DS1307_CTRL_ID 0x68

Definirano v 140 vrstici datoteke Configuration.h.

4.2.1.15 #define ENC_CLK_PIN 3

Definirano v 75 vrstici datoteke Configuration.h.

4.2.1.16 #define ENC_DT_PIN 2

Definirano v 74 vrstici datoteke Configuration.h.

4.2.1.17 #define ENC_PIN_A ENC_DT_PIN

Definirano v 79 vrstici datoteke Configuration.h.

4.2.1.18 #define ENC_PIN_B ENC_CLK_PIN

Definirano v 80 vrstici datoteke Configuration.h.

4.2.1.19 #define ENC_SW_PIN 4

Definirano v 76 vrstici datoteke Configuration.h.

4.2.1.20 #define ETHER_CS_PIN 10

Definirano v 85 vrstici datoteke Configuration.h.

4.2.1.21 #define ETHER_RESET_PIN 23

Definirano v 86 vrstici datoteke Configuration.h.

4.2.1.22 #define LCD_D4 25

Definirano v 92 vrstici datoteke Configuration.h.

4.2.1.23 #define LCD_D5 26

Definirano v 93 vrstici datoteke Configuration.h.

4.2.1.24 #define LCD_D6 27

Definirano v 94 vrstici datoteke Configuration.h.

4.2.1.25 #define LCD_D7 28

Definirano v 95 vrstici datoteke Configuration.h.

4.2.1.26 #define LCD_EN 24

Definirano v 91 vrstici datoteke Configuration.h.

4.2.1.27 #define LCD_OSW_SW 7

Definirano v 88 vrstici datoteke Configuration.h.

4.2.1.28 #define LCD_RS 22

Definirano v 89 vrstici datoteke Configuration.h.

4.2.1.29 #define MAX_DHT22_SENS 1

Definirano v 11 vrstici datoteke Configuration.h.

4.2.1.30 #define MAXSENSORS 9

Definirano v 9 vrstici datoteke Configuration.h.

4.2.1.31 #define MAXSENSORS_DS 7

Definirano v 10 vrstici datoteke Configuration.h.

4.2.1.32 #define NED 1

Definirano v 14 vrstici datoteke Configuration.h.

4.2.1.33 #define NRF24_CE 8

Definirano v 82 vrstici datoteke Configuration.h.

4.2.1.34 #define NRF24_CSN 9

Definirano v 83 vrstici datoteke Configuration.h.

4.2.1.35 #define OKOLICA_0 7

Definirano v 169 vrstici datoteke Configuration.h.

4.2.1.36 #define ONE_WIRE_BUS 30

Definirano v 98 vrstici datoteke Configuration.h.

4.2.1.37 #define PEC_DV 3

Definirano v 172 vrstici datoteke Configuration.h.

4.2.1.38 #define PEC_PV 2

Definirano v 171 vrstici datoteke Configuration.h.

4.2.1.39 #define PEC_TC_DV 6

Definirano v 175 vrstici datoteke Configuration.h.

4.2.1.40 #define R_CRAD_OFF HIGH

Definirano v 30 vrstici datoteke Configuration.h.

4.2.1.41 #define R_CRAD_ON LOW

Definirano v 29 vrstici datoteke Configuration.h.

4.2.1.42 #define R_CTC_OFF HIGH

Definirano v 33 vrstici datoteke Configuration.h.

4.2.1.43 #define R_CTC_ON LOW

Definirano v 32 vrstici datoteke Configuration.h.

4.2.1.44 #define R_TC_EGREL_OFF HIGH

Definirano v 39 vrstici datoteke Configuration.h.

4.2.1.45 #define R_TC_EGREL_ON LOW

Definirano v 38 vrstici datoteke Configuration.h.

4.2.1.46 #define R_TC_KOMP_OFF HIGH

Definirano v 45 vrstici datoteke Configuration.h.

4.2.1.47 #define R_TC_KOMP_ON LOW

Definirano v 44 vrstici datoteke Configuration.h.

4.2.1.48 #define R_TC_VENT_OFF HIGH

Definirano v 42 vrstici datoteke Configuration.h.

4.2.1.49 #define R_TC_VENT_ON LOW

Definirano v 41 vrstici datoteke Configuration.h.

4.2.1.50 #define RAD_DV 5

Definirano v 174 vrstici datoteke Configuration.h.

4.2.1.51 #define RAD_PV 4

Definirano v 173 vrstici datoteke Configuration.h.

4.2.1.52 #define RELE_CRAD 42

Definirano v 122 vrstici datoteke Configuration.h.

4.2.1.53 #define RELE_CTC 41

Definirano v 121 vrstici datoteke Configuration.h.

4.2.1.54 #define RELE_TC_EGREL 43

Definirano v 124 vrstici datoteke Configuration.h.

4.2.1.55 #define RELE_TC_KOMP 39

Definirano v 119 vrstici datoteke Configuration.h.

4.2.1.56 #define RELE_TC_VENT 40

Definirano v 120 vrstici datoteke Configuration.h.

4.2.1.57 #define SD_CS_PIN 53

Definirano v 133 vrstici datoteke Configuration.h.

4.2.1.58 #define SENS_3V3_SD A12

Definirano v 66 vrstici datoteke Configuration.h.

4.2.1.59 #define SENS_RTC_BATT A10

Definirano v 64 vrstici datoteke Configuration.h.

4.2.1.60 #define SENS_TOK A11

Definirano v 65 vrstici datoteke Configuration.h.

4.2.1.61 #define SENS_TOK_12V A2

Definirano v 57 vrstici datoteke Configuration.h.

4.2.1.62 #define SENS_V12 A8

Definirano v 62 vrstici datoteke Configuration.h.

4.2.1.63 #define SENS_V5_2 A9

Definirano v 63 vrstici datoteke Configuration.h.

4.2.1.64 #define SENS_V5_3 A7

Definirano v 61 vrstici datoteke Configuration.h.

4.2.1.65 #define SOB 7

Definirano v 15 vrstici datoteke Configuration.h.

4.2.1.66 #define STATE_CRP_TC_OFF 0

Definirano v 49 vrstici datoteke Configuration.h.

4.2.1.67 #define STATE_CRP_TC_ON 1

Definirano v 48 vrstici datoteke Configuration.h.

4.2.1.68 #define STATE_TC_OFF 0

Definirano v 24 vrstici datoteke Configuration.h.

4.2.1.69 #define STATE_TC_ON 1

Definirano v 23 vrstici datoteke Configuration.h.

4.2.1.70 #define STATE_VENT_TC_NDEF 255

Definirano v 53 vrstici datoteke Configuration.h.

4.2.1.71 #define STATE_VENT_TC_OFF 0

Definirano v 52 vrstici datoteke Configuration.h.

4.2.1.72 #define STATE_VENT_TC_ON 1

Definirano v 51 vrstici datoteke Configuration.h.

4.2.1.73 #define STIKALO_CRP_RAD_OFF 34

Definirano v 108 vrstici datoteke Configuration.h.

4.2.1.74 #define STIKALO_CRP_RAD_ON 33

Definirano v 107 vrstici datoteke Configuration.h.

4.2.1.75 #define STIKALO_CRP_TC_OFF 36

Definirano v 110 vrstici datoteke Configuration.h.

4.2.1.76 #define STIKALO_CRP_TC_ON 35

Definirano v 109 vrstici datoteke Configuration.h.

4.2.1.77 #define STIKALO_TC_OFF 38

Definirano v 112 vrstici datoteke Configuration.h.

4.2.1.78 #define STIKALO_TC_ON 37

Definirano v 111 vrstici datoteke Configuration.h.

4.2.1.79 #define T_KTYP_01_PIN A3

Definirano v 59 vrstici datoteke Configuration.h.

4.2.1.80 #define TIME_HEADER 'T'

Definirano v 142 vrstici datoteke Configuration.h.

4.2.1.81 #define TIME_MSG_LEN 11

Definirano v 141 vrstici datoteke Configuration.h.

4.2.1.82 #define USEEGRELEC false

Definirano v 19 vrstici datoteke Configuration.h.

4.2.1.83 #define VENTTC_1 47

Definirano v 129 vrstici datoteke Configuration.h.

4.2.1.84 #define VENTTC_2 48

Definirano v 130 vrstici datoteke Configuration.h.

4.2.1.85 #define VENTTC_EN 49

Definirano v 131 vrstici datoteke Configuration.h.

4.2.1.86 #define VERSION "v1"

Definirano v 8 vrstici datoteke Configuration.h.

4.2.2 Opis uporabniško definiranega tipa

4.2.2.1 typedef uint8_t DeviceAddress[8]

Definirano v 367 vrstici datoteke Configuration.h.

4.2.3 Opis funkcije

4.2.3.1 void Beep (unsigned char delayms)

Definirano v 34 vrstici datoteke LCD_funkcije.h.

```
4.2.3.2 DHT dht ( DHTPIN , DHTTYPE )
4.2.3.3 OneWire ds ( ONE_WIRE_BUS )
4.2.3.4 void FiksAdrrSens ( DeviceAddress devAddress[], byte * type_s )
Definirano v 378 vrstici datoteke Configuration.h.
4.2.3.5 LiquidCrystal lcdA ( LCD_RS , LCD_EN , LCD_D4 , LCD_D5 , LCD_D6 , LCD_D7 )
4.2.4 Opis spremenljivke
4.2.4.1 unsigned int addrDeltaTh = 9
Definirano v 289 vrstici datoteke Configuration.h.
4.2.4.2 unsigned int addrDeltaThOk = 13
Definirano v 290 vrstici datoteke Configuration.h.
4.2.4.3 unsigned int addrDeltaThSt = 17
Definirano v 291 vrstici datoteke Configuration.h.
4.2.4.4 unsigned int addrLastChg = 0
Definirano v 286 vrstici datoteke Configuration.h.
4.2.4.5 unsigned int addrLastHourTemp = 40
Definirano v 293 vrstici datoteke Configuration.h.
4.2.4.6 unsigned int addrOnTime = 5
Definirano v 288 vrstici datoteke Configuration.h.
4.2.4.7 unsigned int addrPrevTCState = 4
Definirano v 287 vrstici datoteke Configuration.h.
4.2.4.8 unsigned int addrTempBack = 400
Definirano v 294 vrstici datoteke Configuration.h.
4.2.4.9 unsigned long casMeritve
```

Definirano v 328 vrstici datoteke Configuration.h.

4.2.4.10 float cHumidex[MAX_DHT22_SENS]

Definirano v 305 vrstici datoteke Configuration.h.

4.2.4.11 float ciljnaTemp = 52

Definirano v 219 vrstici datoteke Configuration.h.

4.2.4.12 float ciljnaTempWeekend = 48

Definirano v 220 vrstici datoteke Configuration.h.

4.2.4.13 int coRawVal

Definirano v 352 vrstici datoteke Configuration.h.

4.2.4.14 int crpRadAsAbsTemp[24]

Začetna vrednost / definicija :

```
= {15, 15, 15, 15, 15, 15, 15, 17, 19, 22, 25, 30, 30, 25, 25, 25, 28, 30, 32, 30, 28, 24, 20, 17, 15}
```

Definirano v 650 vrstici datoteke Configuration.h.

4.2.4.15 float cTemperatura[MAXSENSORS]

Definirano v 300 vrstici datoteke Configuration.h.

4.2.4.16 float cTempRosicsa[MAX_DHT22_SENS]

Definirano v 306 vrstici datoteke Configuration.h.

4.2.4.17 float cVlaznost[MAX DHT22 SENS]

Definirano v 304 vrstici datoteke Configuration.h.

4.2.4.18 float deltaTh

Definirano v 230 vrstici datoteke Configuration.h.

4.2.4.19 float deltaThOk

Definirano v 231 vrstici datoteke Configuration.h.

4.2.4.20 float deltaThSt

Definirano v 232 vrstici datoteke Configuration.h.

4.2.4.21 int dolPrehObd = 121

Definirano v 243 vrstici datoteke Configuration.h.

4.2.4.22 float dTemp = 5.0

Definirano v 211 vrstici datoteke Configuration.h.

4.2.4.23 float histCrpTC = 4.95

Definirano v 252 vrstici datoteke Configuration.h.

4.2.4.24 unsigned int histLen = 168

Definirano v 296 vrstici datoteke Configuration.h.

4.2.4.25 float hitrGret = 0

Definirano v 331 vrstici datoteke Configuration.h.

4.2.4.26 char infoErr[8]

Definirano v 362 vrstici datoteke Configuration.h.

4.2.4.27 boolean isCrpRadAsAbsTemp = true

Definirano v 277 vrstici datoteke Configuration.h.

4.2.4.28 float kTypeOffset = 0.0

Definirano v 167 vrstici datoteke Configuration.h.

4.2.4.29 unsigned long lastCrpRadStateChg

Definirano v 325 vrstici datoteke Configuration.h.

4.2.4.30 unsigned long lastCrpTCStateChg

Definirano v 322 vrstici datoteke Configuration.h.

4.2.4.31 float lastDeltaTh

Definirano v 334 vrstici datoteke Configuration.h.

4.2.4.32 float lastDeltaThOk

Definirano v 335 vrstici datoteke Configuration.h.

4.2.4.33 float lastDeltaThSt

Definirano v 336 vrstici datoteke Configuration.h.

4.2.4.34 float lastHourTempChange

Definirano v 338 vrstici datoteke Configuration.h.

4.2.4.35 unsigned long lastRunTime

Definirano v 340 vrstici datoteke Configuration.h.

4.2.4.36 unsigned long lastTCStateChg = 0

Definirano v 311 vrstici datoteke Configuration.h.

4.2.4.37 int limTempCrpRad[24]

Začetna vrednost / definicija :

```
= {30, 30, 30, 30, 30, 30,
28, 15, 12, 13, 15, 17,
19, 21, 20, 18, 15, 12,
14, 16, 18, 22, 30, 30}
```

Definirano v 626 vrstici datoteke Configuration.h.

4.2.4.38 float limTempFactCrpRad[24]

Začetna vrednost / definicija :

```
= \{0.2, 0.2, 0.2, 0.2, 0.2, 0.2, \\ 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, \\ 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, \\ 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2, 0.2\}
```

Definirano v 639 vrstici datoteke Configuration.h.

4.2.4.39 byte manuCrpTCState = 0

Definirano v 350 vrstici datoteke Configuration.h.

4.2.4.40 float max_TempOK_TCKomp = 35.0

Definirano v 226 vrstici datoteke Configuration.h.

4.2.4.41 float maxDeltaDev = 5.0

Definirano v 275 vrstici datoteke Configuration.h.

4.2.4.42 float maxDovTempVodeTC_Komp = 64.0

Definirano v 228 vrstici datoteke Configuration.h.

4.2.4.43 float maxTempDVPec = 90.01

Definirano v 274 vrstici datoteke Configuration.h.

4.2.4.44 float maxTempPVRad = 50.0

Definirano v 273 vrstici datoteke Configuration.h.

4.2.4.45 float maxTok_12V

Definirano v 356 vrstici datoteke Configuration.h.

4.2.4.46 float mejaToka = 1.0

Definirano v 246 vrstici datoteke Configuration.h.

4.2.4.47 unsigned int merXMin = 1

Definirano v 206 vrstici datoteke Configuration.h.

4.2.4.48 float min_TempOK_TCKomp = 5.0

Definirano v 225 vrstici datoteke Configuration.h.

4.2.4.49 int minCrpRadRunTimeMin = 7

Definirano v 261 vrstici datoteke Configuration.h.

4.2.4.50 int minCrpTCRunTimeMin = 2

Definirano v 259 vrstici datoteke Configuration.h.

4.2.4.51 float minDiffDvOkolCrpRad = 10.0

Definirano v 265 vrstici datoteke Configuration.h.

4.2.4.52 float minDiffTCPec = 2.0

Definirano v 254 vrstici datoteke Configuration.h.

4.2.4.53 float minMejnaTempRel = 0.399

Definirano v 271 vrstici datoteke Configuration.h.

4.2.4.54 int minRunTimeMin = 10

Definirano v 208 vrstici datoteke Configuration.h.

4.2.4.55 float minTempNightOn = 32.5

Definirano v 218 vrstici datoteke Configuration.h.

4.2.4.56 float minTempPecPonovnoOdpVent = 55.0

Definirano v 256 vrstici datoteke Configuration.h.

4.2.4.57 float minTempVTOn = 37.5

Definirano v 207 vrstici datoteke Configuration.h.

4.2.4.58 unsigned long nMerTok_12V = 0

Definirano v 357 vrstici datoteke Configuration.h.

4.2.4.59 int numSens

Definirano v 165 vrstici datoteke Configuration.h.

4.2.4.60 int numSensDHT22 = 1

Definirano v 163 vrstici datoteke Configuration.h.

4.2.4.61 int numSensDS = 0

Definirano v 162 vrstici datoteke Configuration.h.

4.2.4.62 int numSensK = 1

Definirano v 164 vrstici datoteke Configuration.h.

4.2.4.63 unsigned long onTimeCrpRad =0

Definirano v 326 vrstici datoteke Configuration.h.

4.2.4.64 unsigned long onTimeCrpTC =0

Definirano v 323 vrstici datoteke Configuration.h.

4.2.4.65 unsigned long onTimeTC = 0

Definirano v 309 vrstici datoteke Configuration.h.

4.2.4.66 int osvetlitevLCD = 0

Definirano v 353 vrstici datoteke Configuration.h.

4.2.4.67 float porabaWH = 0.0

Definirano v 343 vrstici datoteke Configuration.h.

4.2.4.68 unsigned long prevCasMeritve

Definirano v 329 vrstici datoteke Configuration.h.

4.2.4.69 byte prevCrpRadState = 0

Definirano v 264 vrstici datoteke Configuration.h.

4.2.4.70 byte prevTCState

Definirano v 310 vrstici datoteke Configuration.h.

4.2.4.71 float Qv

Definirano v 345 vrstici datoteke Configuration.h.

4.2.4.72 byte releState_egrelecTC = R_TC_EGREL_OFF

Definirano v 315 vrstici datoteke Configuration.h.

4.2.4.73 byte releState_kompTC = R_TC_KOMP_OFF

Definirano v 314 vrstici datoteke Configuration.h.

4.2.4.74 byte releState_ventKompTC = R_TC_VENT_OFF

Definirano v 313 vrstici datoteke Configuration.h.

4.2.4.75 char sensorIme[MAXSENSORS][6] = {"Okol", "ToCrp", "PecPV", "PecDV", "RadPV", "RadDV", "PecTC", "Okol", "Dimn"}

Definirano v 177 vrstici datoteke Configuration.h.

4.2.4.76 boolean showCRC = true

Definirano v 203 vrstici datoteke Configuration.h.

4.2.4.77 float startTemp

Definirano v 332 vrstici datoteke Configuration.h.

4.2.4.78 int startUraNT = 22

Definirano v 245 vrstici datoteke Configuration.h.

4.2.4.79 int startUraVT = 6

Definirano v 244 vrstici datoteke Configuration.h.

4.2.4.80 byte stateTC = STATE_TC_OFF

Definirano v 316 vrstici datoteke Configuration.h.

4.2.4.81 float sumTemp[MAXSENSORS+MAX_DHT22_SENS]

Definirano v 302 vrstici datoteke Configuration.h.

4.2.4.82 float sumTok_12V = 0.0

Definirano v 355 vrstici datoteke Configuration.h.

4.2.4.83 float templzklopaVentCrpTC = 60.0

Definirano v 255 vrstici datoteke Configuration.h.

4.2.4.84 float tempOkolicaSt

Definirano v 341 vrstici datoteke Configuration.h.

4.2.4.85 float tempVklopaCrpTC = 82.5

Definirano v 251 vrstici datoteke Configuration.h.

4.2.4.86 const float tKompOK = 20.0

Definirano v 233 vrstici datoteke Configuration.h.

4.2.4.87 const float tKompSt = 50.0

Definirano v 235 vrstici datoteke Configuration.h.

4.2.4.88 byte type_s[MAXSENSORS]

Definirano v 301 vrstici datoteke Configuration.h.

4.2.4.89 ui2byte2 u2

Definirano v 194 vrstici datoteke Configuration.h.

4.2.4.90 ul2byte4b u4

Definirano v 364 vrstici datoteke Configuration.h.

4.2.4.91 fl2byte4b uf

Definirano v 365 vrstici datoteke Configuration.h.

4.2.4.92 int uraVTemp[] = {6, 21}

Definirano v 241 vrstici datoteke Configuration.h.

4.2.4.93 float vccInternal = 5.0 [static]

Definirano v 280 vrstici datoteke Configuration.h.

4.2.4.94 float Vrms = 230.0

Definirano v 348 vrstici datoteke Configuration.h.

4.2.4.95 float We

Definirano v 346 vrstici datoteke Configuration.h.

4.2.4.96 float zacPorabaWH

Definirano v 344 vrstici datoteke Configuration.h.

4.2.4.97 int zaksnitevCrpVent_Sec = 20

Definirano v 260 vrstici datoteke Configuration.h.

4.2.4.98 int zamikMerTemp = 15

Definirano v 237 vrstici datoteke Configuration.h.

4.2.4.99 int zapisXMin = 60

Definirano v 297 vrstici datoteke Configuration.h.

4.3 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Encoder_butt.h

#include <Arduino.h>

Funkcije

- void IzpisNaLCD (void)
- static void doEncoderA ()
- static void doEncoderB ()
- void Encoder init (void)
- static void Encoder_check (void)

Spremenljivke

```
• volatile int virtualPosition = 0
```

- boolean A_set = false
- boolean B_set = false
- boolean rotating =false

4.3.1 Opis funkcije

```
4.3.1.1 static void doEncoderA() [static]
```

Definirano v 51 vrstici datoteke Encoder_butt.h.

```
4.3.1.2 static void doEncoderB() [static]
```

Definirano v 65 vrstici datoteke Encoder butt.h.

```
4.3.1.3 static void Encoder_check ( void ) [static]
```

Definirano v 98 vrstici datoteke Encoder_butt.h.

```
4.3.1.4 void Encoder_init ( void )
```

Definirano v 81 vrstici datoteke Encoder_butt.h.

```
4.3.1.5 void IzpisNaLCD (void)
```

4.3.2 Opis spremenljivke

4.3.2.1 boolean A_set = false

Definirano v 46 vrstici datoteke Encoder_butt.h.

```
4.3.2.2 boolean B_set = false
```

Definirano v 47 vrstici datoteke Encoder_butt.h.

4.3.2.3 boolean rotating =false

Definirano v 48 vrstici datoteke Encoder_butt.h.

4.3.2.4 volatile int virtualPosition = 0

Definirano v 20 vrstici datoteke Encoder_butt.h.

4.4 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Eprom_external.h

Funkcije

void waitEEReady (int deviceAddress)

- void i2c_eeprom_write_page (int deviceaddress, unsigned int eeaddresspage, byte addrlen, byte *up, byte length)
- void i2c_eeprom_write_byte (int deviceaddress, unsigned int eeaddress, byte addrlen, byte data)
- void i2c_eeprom_read_buffer (int deviceaddress, unsigned int eeaddress, byte addrlen, byte *up, int length)
- byte i2c eeprom read byte (int deviceaddress, unsigned int eeaddress, byte addrlen)

4.4.1 Opis funkcije

4.4.1.1 void i2c_eeprom_read_buffer (int deviceaddress, unsigned int eeaddress, byte addrlen, byte * up, int length)

Definirano v 70 vrstici datoteke Eprom_external.h.

4.4.1.2 byte i2c_eeprom_read_byte (int deviceaddress, unsigned int eeaddress, byte addrlen)

Definirano v 115 vrstici datoteke Eprom external.h.

4.4.1.3 void i2c_eeprom_write_byte (int deviceaddress, unsigned int eeaddress, byte addrlen, byte data)

Definirano v 38 vrstici datoteke Eprom_external.h.

4.4.1.4 void i2c_eeprom_write_page (int deviceaddress, unsigned int eeaddresspage, byte addrlen, byte * up, byte length)

Definirano v 9 vrstici datoteke Eprom_external.h.

4.4.1.5 void waitEEReady (int deviceAddress)

Definirano v 148 vrstici datoteke Eprom_external.h.

4.5 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Ethernet_funk.h

Funkcije

- void gotPinged (byte *ptr)
- void EthernetInit (boolean izpisShort)
- void CheckEthernet (void)
- · void EthernetIzpisInfo (void)
- word homePage (void)
- void SendToProc (void)
- static void my_callback (byte status, word off, word len)
- void DeviceHub (void)

Spremenljivke

- static byte myip [] = {192,168,1,50}
- static byte gwip [] = {192,168,1,1}
- static byte dnsip [] = {193,189,160,13}
- static byte ipmask [] = { 255,255,252,0 }
- static byte mymac [] = { 0x74,0x69,0x69,0x2D,0x30,0x31 }
- const char website[] PROGMEM = "www.devicehub.net"
- BufferFiller bfill

```
• static byte proc_ip [4]
    • static byte deviceHub_ip [4]
    • boolean debugDeviceHub =false
4.5.1
       Opis funkcije
4.5.1.1 void CheckEthernet (void)
Definirano v 266 vrstici datoteke Ethernet_funk.h.
4.5.1.2 void DeviceHub (void)
Definirano v 445 vrstici datoteke Ethernet_funk.h.
4.5.1.3 void Ethernetlnit (boolean izpisShort)
Definirano v 50 vrstici datoteke Ethernet_funk.h.
4.5.1.4 void EthernetlzpisInfo (void)
Definirano v 377 vrstici datoteke Ethernet_funk.h.
4.5.1.5 void gotPinged (byte * ptr )
Definirano v 44 vrstici datoteke Ethernet funk.h.
4.5.1.6 static word homePage (void)
Definirano v 198 vrstici datoteke Ethernet_funk.h.
4.5.1.7 static void my_callback (byte status, word off, word len ) [static]
Definirano v 428 vrstici datoteke Ethernet_funk.h.
4.5.1.8 void SendToProc (void)
Definirano v 412 vrstici datoteke Ethernet_funk.h.
4.5.2
       Opis spremenljivke
4.5.2.1 BufferFiller bfill
Definirano v 35 vrstici datoteke Ethernet_funk.h.
4.5.2.2 boolean debugDeviceHub =false
```

Definirano v 426 vrstici datoteke Ethernet_funk.h.

• static byte ping_1 [4]

```
4.5.2.3 byte deviceHub_ip[4] [static]
Definirano v 39 vrstici datoteke Ethernet_funk.h.
4.5.2.4 byte dnsip[] = {193,189,160,13} [static]
Definirano v 23 vrstici datoteke Ethernet_funk.h.
4.5.2.5 byte gwip[] = {192,168,1,1} [static]
Definirano v 22 vrstici datoteke Ethernet_funk.h.
4.5.2.6 byte ipmask[] = { 255,255,252,0 } [static]
Definirano v 24 vrstici datoteke Ethernet funk.h.
4.5.2.7 byte myip[] = {192,168,1,50} [static]
Definirano v 21 vrstici datoteke Ethernet_funk.h.
4.5.2.8 byte mymac[] = { 0x74,0x69,0x69,0x2D,0x30,0x31 } [static]
Definirano v 29 vrstici datoteke Ethernet_funk.h.
4.5.2.9 byte ping_1[4] [static]
Definirano v 37 vrstici datoteke Ethernet_funk.h.
4.5.2.10 byte proc_ip[4] [static]
Definirano v 38 vrstici datoteke Ethernet_funk.h.
4.5.2.11 const char website [] PROGMEM = "www.devicehub.net"
```

4.6 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Gas_Sensor.h

Makro deklaracije

- #define Kontroler TC h
- #define CO_HEATING_STATE_OFF 0

Definirano v 31 vrstici datoteke Ethernet funk.h.

- #define CO_HEATING_STATE_HIGH 1
- #define CO_HEATING_STATE_LOW 2
- #define CO_HEATING_OFF HIGH
- #define CO_HEATING_ON LOW
- #define CO_HEATING_PWM_LOW 184

Funkcije

- void Initilizacija_CO (void)
- void PreveriCO_Senzor ()

Spremenljivke

- unsigned long coRawValSum = 0
- unsigned long numMerCO =0
- · int coRawValMax
- int coRawValRef = 0
- 4.6.1 Opis makro definicije
- 4.6.1.1 #define CO_HEATING_OFF HIGH
- 4.6.1.2 #define CO_HEATING_ON LOW
- 4.6.1.3 #define CO_HEATING_PWM_LOW 184
- 4.6.1.4 #define CO_HEATING_STATE_HIGH 1
- 4.6.1.5 #define CO_HEATING_STATE_LOW 2
- 4.6.1.6 #define CO_HEATING_STATE_OFF 0
- 4.6.1.7 #define Kontroler_TC_h

Definirano v 2 vrstici datoteke Gas_Sensor.h.

4.6.2 Opis funkcije

4.6.2.1 void Initilizacija_CO (void)

Definirano v 9 vrstici datoteke Gas_Sensor.h.

4.6.2.2 void PreveriCO_Senzor ()

Definirano v 32 vrstici datoteke Gas_Sensor.h.

4.6.3 Opis spremenljivke

4.6.3.1 int coRawValMax

Definirano v 27 vrstici datoteke Gas_Sensor.h.

4.6.3.2 int coRawValRef = 0

Definirano v 28 vrstici datoteke Gas_Sensor.h.

4.6.3.3 unsigned long coRawValSum = 0

Definirano v 25 vrstici datoteke Gas_Sensor.h.

4.6.3.4 unsigned long numMerCO =0

Definirano v 26 vrstici datoteke Gas Sensor.h.

4.7 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Kontr_TC.h

```
#include <inttypes.h>
#include <Arduino.h>
#include <Wire.h>
```

Makro deklaracije

- #define STIKALO ON LOW
- #define STIKALO OFF HIGH
- #define STIKALO STATE AUT 0
- #define STIKALO STATE ON 1
- #define STIKALO_STATE_OFF 2
- #define STIKALO CRP RAD 0
- #define STIKALO_CRP_TC 1
- #define STIKALO_TC 2

Funkcije

- void PreklopiCrpalkoTC (byte newState)
- void Beep (unsigned char delayms)
- void NastavitevPinov (void)
- void InitParametri (void)
- void PreveriStikala (boolean izpisState)

Spremenljivke

- uint8_t stikaloState [3]
- char stikaloStateTxt [3][4] = {"AUT", "ON", "OFF"}

4.7.1 Opis makro definicije

4.7.1.1 #define STIKALO_CRP_RAD 0

Definirano v 267 vrstici datoteke Kontr_TC.h.

4.7.1.2 #define STIKALO_CRP_TC 1

Definirano v 268 vrstici datoteke Kontr_TC.h.

4.7.1.3 #define STIKALO_OFF HIGH Definirano v 261 vrstici datoteke Kontr_TC.h. 4.7.1.4 #define STIKALO_ON LOW Definirano v 260 vrstici datoteke Kontr_TC.h. 4.7.1.5 #define STIKALO_STATE_AUT 0 Definirano v 263 vrstici datoteke Kontr_TC.h. 4.7.1.6 #define STIKALO_STATE_OFF 2 Definirano v 265 vrstici datoteke Kontr_TC.h. 4.7.1.7 #define STIKALO_STATE_ON 1 Definirano v 264 vrstici datoteke Kontr_TC.h. 4.7.1.8 #define STIKALO_TC 2 Definirano v 269 vrstici datoteke Kontr_TC.h. 4.7.2 Opis funkcije 4.7.2.1 void Beep (unsigned char delayms) Definirano v 34 vrstici datoteke LCD_funkcije.h. 4.7.2.2 void InitParametri (void) Definirano v 83 vrstici datoteke Kontr_TC.h. 4.7.2.3 void NastavitevPinov (void) Definirano v 23 vrstici datoteke Kontr_TC.h. 4.7.2.4 void PreklopiCrpalkoTC (byte newState) Definirano v 115 vrstici datoteke Kontr_TC_izvrs.h. 4.7.2.5 void PreveriStikala (boolean izpisState)

Definirano v 278 vrstici datoteke Kontr_TC.h.

4.7.3 Opis spremenljivke

4.7.3.1 uint8_t stikaloState[3]

Definirano v 271 vrstici datoteke Kontr TC.h.

4.7.3.2 char stikaloStateTxt[3][4] = {"AUT", "ON", "OFF"}

Definirano v 275 vrstici datoteke Kontr_TC.h.

4.8 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Kontr_TC_izvrs.h

Funkcije

- void ZapisiOnOffSD (int state, byte tipSpremembe)
- void PreklopiCrpalkoRad (byte newState)
- void PreklopiVentilTCPec (byte newState)
- void PreklopiCrpalkoTC (byte newState)
- void ResetCrpTCVzr (void)

Spremenljivke

- byte prevCrpTCState = STATE CRP TC OFF
- byte prevVentTCState = STATE_VENT_TC_NDEF
- unsigned long lastVentTCChg [2]
- int preklopCrpTCVzr = 0

4.8.1 Opis funkcije

4.8.1.1 void PreklopiCrpalkoRad (byte newState)

Definirano v 24 vrstici datoteke Kontr_TC_izvrs.h.

4.8.1.2 void PreklopiCrpalkoTC (byte newState)

Definirano v 115 vrstici datoteke Kontr_TC_izvrs.h.

4.8.1.3 void PreklopiVentilTCPec (byte newState)

Definirano v 55 vrstici datoteke Kontr_TC_izvrs.h.

4.8.1.4 void ResetCrpTCVzr (void)

Definirano v 156 vrstici datoteke Kontr_TC_izvrs.h.

4.8.1.5 void ZapisiOnOffSD (int state, byte tipSpremembe = 0)

Definirano v 198 vrstici datoteke Zapisi_sd.h.

4.8.2 Opis spremenljivke

4.8.2.1 unsigned long lastVentTCChg[2]

Definirano v 16 vrstici datoteke Kontr TC izvrs.h.

4.8.2.2 int preklopCrpTCVzr = 0

Definirano v 17 vrstici datoteke Kontr TC izvrs.h.

4.8.2.3 byte prevCrpTCState = STATE_CRP_TC_OFF

Definirano v 13 vrstici datoteke Kontr_TC_izvrs.h.

4.8.2.4 byte prevVentTCState = STATE_VENT_TC_NDEF

Definirano v 14 vrstici datoteke Kontr_TC_izvrs.h.

4.9 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Kontr_TC_spl.h

Funkcije

- boolean IsNTempCas ()
- time_t processSyncMessage ()
- · void EthernetInit (boolean izpisShort)
- · void EthernetIzpisInfo (void)
- void SDInit (void)
- void PrintTempAllSDbin (void)
- void ImeDatotekeOnOff (char *ime)
- void IzpisDataOnOffSerial (void)
- void IzpisDatnaSerial (void)
- unsigned int ObsegZgodovine (int sensor, unsigned int pred=0)
- float AC_mimax (boolean izpis, boolean forceCalc)
- float Tok_12V (void)
- void PreveriStikala (boolean izpisState)
- void PrintTemperatureAll (void)
- void PreveriNapetosti (boolean izpis, boolean internal, boolean external, boolean battery)
- float Sec2Hour (unsigned long sec)
- float AvgValFF_F (float suma, float num)
- float AvgValULUL_F (unsigned long sum, unsigned long num)
- float KompenzacijaTempOkolice (float tOkolice)
- float KompenzZacTemp (float tStart)
- float IzracDeltaTh ()
- float IzracDeltaThOk ()
- float IzracDeltaThSt ()
- · float Cop (void)
- boolean VodaVre (boolean izpis)
- boolean MaxCrpTCRunTime ()
- float TempVklopaCrpTC_NTemp ()
- float TemplzklopaCrpTC_NTemp ()
- boolean RelaksTimeLimitSec (unsigned long cTime, unsigned long pTime, int rTime)
- float TempVklopa (void)

- float Templzklopa (void)
- float IzracunLimitTemp (int state, float ciTemp)
- float IzracunTempVTOff (void)
- boolean UpostevajElTarife (void)
- void CheckSerial (void)
- void IzpisPorabaWH (float porabaWH)
- void IzracunHitrostiGretjaTC (void)
- float PovpreciVred (float a, float povVred, float lastVred)
- void ZapisiInIzpisiPodatke (void)
- void PrintData (void)
- float MejnaTempPreklCrpRad (byte newState)
- int ZakasnitevVklopa (float temp, float mejnaTemp, int faktor)
- float TemplzklopaCrpTC (void)
- static float PretvotiEETemp2Float (unsigned int u2uival)
- static unsigned int PretvoriFloat2EETemp (float temp)
- static word homePage (void)

Spremenljivke

- unsigned long cycStart
- · unsigned long sumCycle
- unsigned long ncyc
- unsigned long minCycle = 0
- unsigned long maxCycle = 0
- boolean useDeltaThOk = false
- float pTempCrp [3]
- boolean izracHitrGret = false
- boolean izracHitrGretInfo =false
- boolean seRracunaHitrGret
- float avgWeightLHTC = (0.5/(float) zamikMerTemp)
- float avgLHTCVodeTC = -0.5
- boolean debugDeviceHub
- float sumPing = 0
- unsigned long numPing = 0
- · int stateCevStPecTC
- float tok230V = -100.0
- unsigned long coRawValSum
- unsigned long numMerCO
- int coRawValMax
- · int coRawValRef
- float minVoltGas
- float maxVoltGas

4.9.1 Opis funkcije

4.9.1.1 float AC_mimax (boolean izpis = false, boolean forceCalc = false)

Definirano v 24 vrstici datoteke Tok_napetost.h.

4.9.1.2 float AvgValFF_F (float suma, float num) [inline]

Definirano v 67 vrstici datoteke Kontr_TC_spl.h.

```
4.9.1.3 float AvgValULUL_F (unsigned long sum, unsigned long num) [inline]
Definirano v 83 vrstici datoteke Kontr_TC_spl.h.
4.9.1.4 void CheckSerial (void)
Definirano v 485 vrstici datoteke Kontr_TC_spl.h.
4.9.1.5 float Cop ( void )
Definirano v 214 vrstici datoteke Kontr_TC_spl.h.
4.9.1.6 void Ethernetlnit (boolean izpisShort)
Definirano v 50 vrstici datoteke Ethernet_funk.h.
4.9.1.7 void EthernetlzpisInfo (void )
Definirano v 377 vrstici datoteke Ethernet_funk.h.
4.9.1.8 static word homePage ( void ) [static]
Definirano v 198 vrstici datoteke Ethernet_funk.h.
4.9.1.9 void ImeDatotekeOnOff ( char * ime )
Definirano v 55 vrstici datoteke Zapisi_sd.h.
4.9.1.10 boolean IsNTempCas ( )
Definirano v 672 vrstici datoteke Temperature.h.
4.9.1.11 void IzpisDataOnOffSerial (void)
Definirano v 372 vrstici datoteke Zapisi sd.h.
4.9.1.12 void IzpisDatnaSerial (void)
Definirano v 401 vrstici datoteke Zapisi_sd.h.
4.9.1.13 void IzpisPorabaWH (float porabaWH)
Definirano v 604 vrstici datoteke Kontr_TC_spl.h.
4.9.1.14 float IzracDeltaTh ( )
Definirano v 143 vrstici datoteke Kontr_TC_spl.h.
```

```
4.9.1.15 float lzracDeltaThOk ( )
Definirano v 158 vrstici datoteke Kontr_TC_spl.h.
4.9.1.16 float lzracDeltaThSt ( )
Definirano v 189 vrstici datoteke Kontr_TC_spl.h.
4.9.1.17 void IzracunHitrostiGretjaTC (void)
Definirano v 627 vrstici datoteke Kontr_TC_spl.h.
4.9.1.18 float IzracunLimitTemp ( int state, float ciTemp )
Definirano v 398 vrstici datoteke Kontr_TC_spl.h.
4.9.1.19 float lzracunTempVTOff (void)
Definirano v 439 vrstici datoteke Kontr_TC_spl.h.
4.9.1.20 float KompenzacijaTempOkolice (float tOkolice)
Definirano v 91 vrstici datoteke Kontr_TC_spl.h.
4.9.1.21 float KompenzZacTemp (float tStart)
Definirano v 109 vrstici datoteke Kontr_TC_spl.h.
4.9.1.22 boolean MaxCrpTCRunTime ( )
Definirano v 269 vrstici datoteke Kontr_TC_spl.h.
4.9.1.23 float MejnaTempPreklCrpRad (byte newState)
Definirano v 1037 vrstici datoteke Kontr TC spl.h.
4.9.1.24 unsigned int ObsegZgodovine ( int sensor, unsigned int pred = 0 )
Definirano v 764 vrstici datoteke Temperature.h.
4.9.1.25 float PovpreciVred (float a, float povVred, float lastVred)
Definirano v 720 vrstici datoteke Kontr_TC_spl.h.
4.9.1.26 static unsigned int PretvoriFloat2EETemp (float temp) [static]
Definirano v 732 vrstici datoteke Kontr_TC_spl.h.
```

```
4.9.1.27 static float PretvotiEETemp2Float (unsigned int u2uival) [static]
Definirano v 725 vrstici datoteke Kontr_TC_spl.h.
4.9.1.28 void PreveriNapetosti ( boolean izpis, boolean internal, boolean external, boolean battery )
Definirano v 293 vrstici datoteke Tok_napetost.h.
4.9.1.29 void PreveriStikala (boolean izpisState)
Definirano v 278 vrstici datoteke Kontr_TC.h.
4.9.1.30 void PrintData (void)
Definirano v 1012 vrstici datoteke Kontr_TC_spl.h.
4.9.1.31 void PrintTempAllSDbin (void)
Definirano v 94 vrstici datoteke Zapisi_sd.h.
4.9.1.32 void PrintTemperatureAll (void)
Definirano v 461 vrstici datoteke Temperature.h.
4.9.1.33 time_t processSyncMessage ( )
Definirano v 629 vrstici datoteke Temperature.h.
4.9.1.34 boolean RelaksTimeLimitSec (unsigned long cTime, unsigned long pTime, int rTime)
Definirano v 297 vrstici datoteke Kontr_TC_spl.h.
4.9.1.35 void SDInit (void )
Definirano v 22 vrstici datoteke Zapisi sd.h.
4.9.1.36 float Sec2Hour ( unsigned long \sec ) [inline]
Definirano v 57 vrstici datoteke Kontr_TC_spl.h.
4.9.1.37 float Templzklopa (void)
Definirano v 373 vrstici datoteke Kontr_TC_spl.h.
4.9.1.38 float TemplzklopaCrpTC (void)
Definirano v 1087 vrstici datoteke Kontr_TC_spl.h.
```

```
4.9.1.39 float TemplzklopaCrpTC_NTemp ( )
Definirano v 286 vrstici datoteke Kontr_TC_spl.h.
4.9.1.40 float TempVklopa (void)
Definirano v 313 vrstici datoteke Kontr_TC_spl.h.
4.9.1.41 float TempVklopaCrpTC_NTemp ( )
Definirano v 275 vrstici datoteke Kontr TC spl.h.
4.9.1.42 float Tok_12V (void)
Definirano v 139 vrstici datoteke Tok_napetost.h.
4.9.1.43 boolean UpostevajElTarife (void)
Definirano v 465 vrstici datoteke Kontr_TC_spl.h.
4.9.1.44 boolean VodaVre (boolean izpis)
Definirano v 240 vrstici datoteke Kontr_TC_spl.h.
4.9.1.45 int ZakasnitevVklopa (float temp, float mejnaTemp, int faktor)
Definirano v 1093 vrstici datoteke Kontr_TC_spl.h.
4.9.1.46 void ZapisiInIzpisiPodatke (void)
Definirano v 759 vrstici datoteke Kontr_TC_spl.h.
4.9.2 Opis spremenljivke
4.9.2.1 float avgLHTCVodeTC = -0.5
Definirano v 311 vrstici datoteke Kontr_TC_spl.h.
4.9.2.2 float avgWeightLHTC = (0.5/(float) zamikMerTemp)
Definirano v 310 vrstici datoteke Kontr_TC_spl.h.
4.9.2.3 int coRawValMax
Definirano v 27 vrstici datoteke Gas_Sensor.h.
4.9.2.4 int coRawValRef
Definirano v 28 vrstici datoteke Gas_Sensor.h.
```

4.9.2.5 unsigned long coRawValSum

Definirano v 25 vrstici datoteke Gas_Sensor.h.

4.9.2.6 unsigned long cycStart

Definirano v 76 vrstici datoteke Kontr_TC_spl.h.

4.9.2.7 boolean debugDeviceHub

Definirano v 426 vrstici datoteke Ethernet_funk.h.

4.9.2.8 boolean izracHitrGret = false

Definirano v 306 vrstici datoteke Kontr_TC_spl.h.

4.9.2.9 boolean izracHitrGretInfo =false

Definirano v 307 vrstici datoteke Kontr_TC_spl.h.

4.9.2.10 unsigned long maxCycle = 0

Definirano v 80 vrstici datoteke Kontr_TC_spl.h.

4.9.2.11 float maxVoltGas

4.9.2.12 unsigned long minCycle = 0

Definirano v 79 vrstici datoteke Kontr_TC_spl.h.

4.9.2.13 float minVoltGas

4.9.2.14 unsigned long ncyc

Definirano v 78 vrstici datoteke Kontr_TC_spl.h.

4.9.2.15 unsigned long numMerCO

Definirano v 26 vrstici datoteke Gas_Sensor.h.

4.9.2.16 unsigned long numPing = 0

Definirano v 740 vrstici datoteke Kontr_TC_spl.h.

4.9.2.17 float pTempCrp[3]

Definirano v 238 vrstici datoteke Kontr_TC_spl.h.

Definirano v 308 vrstici datoteke Kontr_TC_spl.h.

4.9.2.19 int stateCevStPecTC

Definirano v 742 vrstici datoteke Kontr_TC_spl.h.

4.9.2.20 unsigned long sumCycle

Definirano v 77 vrstici datoteke Kontr_TC_spl.h.

4.9.2.21 float sumPing = 0

Definirano v 739 vrstici datoteke Kontr_TC_spl.h.

4.9.2.22 float tok230V = -100.0

Definirano v 745 vrstici datoteke Kontr_TC_spl.h.

4.9.2.23 boolean useDeltaThOk = false

Definirano v 156 vrstici datoteke Kontr_TC_spl.h.

- 4.10 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/KontrolerTC_← Mega2560_v1.ino
- 4.11 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/LCD_funkcije.h

Makro deklaracije

• #define MAX_LCD_OSV 160

Funkcije

- void LCDInitializacija (void)
- void Beep (unsigned char delayms)
- void IzpisHex2 (int num)
- void PrintDigitsLCDA (int digits)
- void IzpisiNaLCD (void)
- void IzpisControlMenu (void)
- void IzpisInfoMenu (int infoLCD)
- float TempVklopa (void)
- float Templzklopa (void)

Spremenljivke

- byte prevTCState
- unsigned long onTimeTC
- · unsigned long lastTCStateChg
- char infoErr []
- int infoModeLCD = -1
- int menuZaslonNum = -1
- boolean buttonPressed = false
- int coRawVal

4.11.1 Opis makro definicije

4.11.1.1 #define MAX_LCD_OSV 160

Definirano v 22 vrstici datoteke LCD_funkcije.h.

4.11.2 Opis funkcije

4.11.2.1 void Beep (unsigned char delayms)

Definirano v 34 vrstici datoteke LCD_funkcije.h.

4.11.2.2 void IzpisControlMenu (void)

Definirano v 134 vrstici datoteke LCD_funkcije.h.

4.11.2.3 void IzpisHex2 (int num)

Definirano v 41 vrstici datoteke LCD_funkcije.h.

4.11.2.4 void IzpisiNaLCD (void)

Definirano v 73 vrstici datoteke LCD_funkcije.h.

4.11.2.5 void IzpisInfoMenu (int infoLCD)

Definirano v 141 vrstici datoteke LCD_funkcije.h.

4.11.2.6 void LCDInitializacija (void)

Definirano v 24 vrstici datoteke LCD_funkcije.h.

4.11.2.7 void PrintDigitsLCDA (int digits)

Definirano v 48 vrstici datoteke LCD_funkcije.h.

4.11.2.8 float Templzklopa (void)

Definirano v 373 vrstici datoteke Kontr_TC_spl.h.

4.11.2.9 float TempVklopa (void)

Definirano v 313 vrstici datoteke Kontr_TC_spl.h.

4.11.3 Opis spremenljivke

4.11.3.1 boolean buttonPressed = false

Definirano v 71 vrstici datoteke LCD_funkcije.h.

4.11.3.2 int coRawVal

Definirano v 352 vrstici datoteke Configuration.h.

4.11.3.3 char infoErr[]

Definirano v 362 vrstici datoteke Configuration.h.

4.11.3.4 int infoModeLCD = -1

Definirano v 68 vrstici datoteke LCD_funkcije.h.

4.11.3.5 unsigned long lastTCStateChg

Definirano v 311 vrstici datoteke Configuration.h.

4.11.3.6 int menuZaslonNum = -1

Definirano v 69 vrstici datoteke LCD_funkcije.h.

4.11.3.7 unsigned long onTimeTC

Definirano v 309 vrstici datoteke Configuration.h.

4.11.3.8 byte prevTCState

Definirano v 310 vrstici datoteke Configuration.h.

4.12 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Temperature.h

#include <DHT.h>

Makro deklaracije

• #define Temperatue_h

Funkcije

- void IzpisHex2 (int num)
- void Beep (unsigned char delayms)
- void TempSensorsInit (void)
- static float PreberiTemperaturoDS (int cSens, boolean zahtevajBranje)
- static boolean PreberiTemperature (boolean zahtevajBranje, boolean allSens)
- float PreberiTemperaturoDHT22 (int n)
- float PreberiVlaznostDHT22 (int n)
- float IzracunTRosicsa (float temp, float vlaz)
- float IzracunHumidex (float temp, float tempRos)
- float PreberiTemperaturoK (int n)
- void PrintAddress (DeviceAddress deviceAddress)
- void PrintTemperatureAll (void)
- time t processSyncMessage ()
- float AutoTimeUnitConv (unsigned long cas, char *cunits)
- boolean IsNTempCas ()
- boolean IsCasTransfTopl ()
- void last24H_Info (void)
- unsigned int ObsegZgodovine (int sensor, unsigned int pred)
- float RefTemp (byte refTempType)

Spremenljivke

- DeviceAddress devAddress [MAXSENSORS_DS]
- unsigned long convWaitTime = 800
- boolean temeratureIzmerjene =true
- float avgTempVodeTC
- float sumCTemp =0.0
- float sumCTempEMA =0.0
- · float vccInternal
- float sum24 [MAXSENSORS]
- float maxTemp24 [MAXSENSORS]
- float minTemp24 [MAXSENSORS]
- unsigned long maxTemp24Time [MAXSENSORS]
- unsigned long minTemp24Time [MAXSENSORS]

4.12.1 Opis makro definicije

4.12.1.1 #define Temperatue_h

Definirano v 2 vrstici datoteke Temperature.h.

4.12.2 Opis funkcije

4.12.2.1 float AutoTimeUnitConv (unsigned long cas, char * cunits)

Definirano v 650 vrstici datoteke Temperature.h.

4.12.2.2 void Beep (unsigned char delayms)

Definirano v 34 vrstici datoteke LCD_funkcije.h.

```
4.12.2.3 boolean IsCasTransfTopl ( )
Definirano v 687 vrstici datoteke Temperature.h.
4.12.2.4 boolean IsNTempCas ( )
Definirano v 672 vrstici datoteke Temperature.h.
4.12.2.5 void IzpisHex2 (int num)
Definirano v 41 vrstici datoteke LCD_funkcije.h.
4.12.2.6 float IzracunHumidex (float temp, float tempRos)
Definirano v 355 vrstici datoteke Temperature.h.
4.12.2.7 float IzracunTRosicsa (float temp, float vlaz)
Definirano v 349 vrstici datoteke Temperature.h.
4.12.2.8 void last24H_Info (void )
Definirano v 800 vrstici datoteke Temperature.h.
4.12.2.9 unsigned int ObsegZgodovine ( int sensor, unsigned int pred )
Definirano v 764 vrstici datoteke Temperature.h.
4.12.2.10 static boolean PreberiTemperature ( boolean zahtevajBranje, boolean allSens = false ) [static]
Definirano v 285 vrstici datoteke Temperature.h.
4.12.2.11 float PreberiTemperaturoDHT22 ( int n )
Definirano v 325 vrstici datoteke Temperature.h.
4.12.2.12 static float PreberiTemperaturoDS (int cSens, boolean zahtevajBranje) [static]
Definirano v 187 vrstici datoteke Temperature.h.
4.12.2.13 float PreberiTemperaturoK (int n)
Definirano v 363 vrstici datoteke Temperature.h.
4.12.2.14 float PreberiVlaznostDHT22 (int n)
Definirano v 337 vrstici datoteke Temperature.h.
```

4.12.2.15 void PrintAddress (DeviceAddress deviceAddress) Definirano v 441 vrstici datoteke Temperature.h. 4.12.2.16 void PrintTemperatureAll (void) Definirano v 461 vrstici datoteke Temperature.h. 4.12.2.17 time_t processSyncMessage () Definirano v 629 vrstici datoteke Temperature.h. 4.12.2.18 float RefTemp (byte refTempType) Definirano v 916 vrstici datoteke Temperature.h. 4.12.2.19 void TempSensorsInit (void) Definirano v 46 vrstici datoteke Temperature.h. 4.12.3 Opis spremenljivke 4.12.3.1 float avgTempVodeTC Definirano v 42 vrstici datoteke Temperature.h. 4.12.3.2 unsigned long convWaitTime = 800 Definirano v 39 vrstici datoteke Temperature.h. 4.12.3.3 DeviceAddress devAddress[MAXSENSORS DS] Definirano v 38 vrstici datoteke Temperature.h. 4.12.3.4 float maxTemp24[MAXSENSORS] Definirano v 794 vrstici datoteke Temperature.h. 4.12.3.5 unsigned long maxTemp24Time[MAXSENSORS] Definirano v 796 vrstici datoteke Temperature.h. 4.12.3.6 float minTemp24[MAXSENSORS] Definirano v 795 vrstici datoteke Temperature.h. 4.12.3.7 unsigned long minTemp24Time[MAXSENSORS]

Definirano v 797 vrstici datoteke Temperature.h.

4.12.3.8 float sum24[MAXSENSORS]

Definirano v 791 vrstici datoteke Temperature.h.

4.12.3.9 float sumCTemp =0.0

Definirano v 456 vrstici datoteke Temperature.h.

4.12.3.10 float sumCTempEMA = 0.0

Definirano v 457 vrstici datoteke Temperature.h.

4.12.3.11 boolean temeraturelzmerjene =true

Definirano v 40 vrstici datoteke Temperature.h.

4.12.3.12 float vccInternal

4.13 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Tok_napetost.h

Funkcije

- float AC mimax (boolean izpis, boolean forceCalc)
- float Tok 12V (void)
- float PretvoriV2A_asc712_DC (int sensVal)
- float PretvoriV2A_asc712 (int sensVal)
- float VoltageDivider (int analRead, float r1, float r2, float korFact)
- · void PreveriNapetosti (boolean internal, boolean external, boolean battery)
- long readVcc (void)
- void napetostiMinMax (int n, boolean isFirstTime)
- void PreveriNapetosti (boolean izpis=true, boolean internal=false, boolean external=false, boolean battery=false)

Spremenljivke

- int midR = 512
- float napetost_int [5][3]

4.13.1 Opis funkcije

4.13.1.1 float AC_mimax (boolean izpis = false, boolean forceCalc = false)

Definirano v 24 vrstici datoteke Tok_napetost.h.

4.13.1.2 void napetostiMinMax (int n, boolean isFirstTime)

Definirano v 279 vrstici datoteke Tok_napetost.h.

4.13.1.3 float PretvoriV2A_asc712 (int sensVal)

Definirano v 183 vrstici datoteke Tok_napetost.h.

```
4.13.1.4 float PretvoriV2A_asc712_DC ( int sensVal )
Definirano v 158 vrstici datoteke Tok_napetost.h.
4.13.1.5 void PreveriNapetosti ( boolean internal, boolean external, boolean battery )
4.13.1.6 void PreveriNapetosti ( boolean izpis = true, boolean internal = false, boolean external = false, boolean
         battery = false )
Definirano v 293 vrstici datoteke Tok_napetost.h.
4.13.1.7 long readVcc (void)
Definirano v 413 vrstici datoteke Tok_napetost.h.
4.13.1.8 float Tok_12V ( void )
Definirano v 139 vrstici datoteke Tok_napetost.h.
4.13.1.9 float VoltageDivider ( int analRead, float r1, float r2, float korFact = 1.0 )
Definirano v 206 vrstici datoteke Tok_napetost.h.
4.13.2 Opis spremenljivke
4.13.2.1 int midR = 512
Definirano v 20 vrstici datoteke Tok_napetost.h.
4.13.2.2 float napetost_int[5][3]
Definirano v 277 vrstici datoteke Tok_napetost.h.
```

4.14 Datoteka //Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560_v1/Zapisi_sd.h

Funkcije

- void SDInit (void)
- void ImeDatoteke (char *ime)
- void ImeDatotekeOnOff (char *ime)
- File OdpriDatoteko (char *imeDat, byte typeDat)
- void PrintTempAllSDbin (void)
- void ZapisiOnOffSD (int state, byte tipSpremembe)
- void IzpisDataOnOffSerial (void)
- · void IzpisDatnaSerial (void)

Spremenljivke

Sd2Card cardSD

```
4.14.1 Opis funkcije
```

4.14.1.1 void ImeDatoteke (char * ime)

Definirano v 47 vrstici datoteke Zapisi_sd.h.

4.14.1.2 void ImeDatotekeOnOff (char * ime)

Definirano v 55 vrstici datoteke Zapisi sd.h.

4.14.1.3 void IzpisDataOnOffSerial (void)

Definirano v 372 vrstici datoteke Zapisi_sd.h.

4.14.1.4 void IzpisDatnaSerial (void)

Definirano v 401 vrstici datoteke Zapisi_sd.h.

4.14.1.5 File OdpriDatoteko (char * imeDat, byte typeDat)

Definirano v 61 vrstici datoteke Zapisi_sd.h.

4.14.1.6 void PrintTempAllSDbin (void)

Definirano v 94 vrstici datoteke Zapisi sd.h.

4.14.1.7 void SDInit (void)

Definirano v 22 vrstici datoteke Zapisi_sd.h.

4.14.1.8 void ZapisiOnOffSD (int state, byte tipSpremembe = 0)

Definirano v 198 vrstici datoteke Zapisi_sd.h.

4.14.2 Opis spremenljivke

4.14.2.1 Sd2Card cardSD

Definirano v 17 vrstici datoteke Zapisi_sd.h.

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_v1/Eprom_external.h, 28	Temperature.h, 46
//Pro03/github/KontrolerTC_H/KontrolerTC_Mega2560←	avgLHTCVodeTC
_v1/Ethernet_funk.h, 29	Kontr_TC_spl.h, 41
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