

1 Thermokon Resource Files

- The resource files are consisting of the following:
- Thermokon.typ, Network variables types UNVT
Configuration parameters types UCPT
- Thermokon.fpt, Function profile UFPT
- Thermokon.enu, Language text information (US-English)
- Thermokon.fmt Formatting for display in the installation tool

1.1 Installation

1.1.1 Requirements

- For installation **LONMARK resource file API Version 2.3** or latest version is required. Otherwise, the files cannot be read.
- Alternatively we recommend to install the **LonMark® Resource Files Version 13.00**. Herewith the "LONMARK resource file API" will be updated automatically.
- Both, the new API and also the Resource Files are available for download from:
<http://www.lonmark.org/products/snvtfile.htm>

1.1.2 Automatic installation with Thermokon_DRF25.exe

- **Thermokon_DRF25.exe** copies the Device-Resource-Files and the file DRF_Install.exe to the directory ...\\LonWorks\\types\\User\\Thermokon and refresh the catalog-file **LDRF.cat**. A new directory will be created.
- The Setup file is available for download from:
<http://www.thermokon.de>

1.1.3 Manual Installation

- Copying of the resource files into directory ...\\LonWorks\\types\\User\\Thermokon
- Start of **LonMark Device Resource File Catalog Browsers** via Start/Programme/LNS Utilities / LNS Ressources Files Catalog Utility
- startup - window: **OK**
- open a catalog - window: **OK**
- edit a catalog - window: By means of **Add a new directory** add the new directory Lonworks\\types\\user\\Thermokon
- Up-date by **Refresh Now**
- Exit

1.2 Version 2.5

UNVT Index	Name	Data Type
1	UNVT_menu_config	<pre> typedef struct { unsigned short Anzahl_Zeilen; unsigned short Index_Zeile_1; unsigned short Index_Zeile_2; unsigned short Index_Zeile_3; unsigned short Index_Zeile_4; unsigned short Index_Zeile_5; unsigned short Index_Zeile_6; unsigned short Index_Zeile_7; unsigned short Index_Zeile_8; unsigned short Index_Zeile_9; unsigned short Index_Zeile_10; uint Parameter_Z_1:1; uint Parameter_Z_2:1; uint Parameter_Z_3:1; uint Parameter_Z_4:1; uint Parameter_Z_5:1; uint Parameter_Z_6:1; uint Parameter_Z_7:1; uint Parameter_Z_8:1; uint Parameter_Z_9:1; uint Parameter_Z_10:1; } UNVT_menu_config; </pre>
2	UNVTfanTiming	<pre> typedef struct { SNVT_time_sec RunUpTime; SNVT_time_sec OverrunTime; SNVT_time_sec MinOnTime; SNVT_time_sec MinOffTime; } UNVT_fan_timing; </pre>

UNVT Index	Name	Data Type
3	UNVT_fan_stg_lev	<pre>typedef struct { SNVT_lev_percent CoolFirstStage; SNVT_lev_percent CoolSecondStage; SNVT_lev_percent CoolThirdStage; SNVT_lev_percent HeatFirstStage; SNVT_lev_percent HeatSecondStage; SNVT_lev_percent HeatThirdStage; } UNVT_fan_stg_lev</pre>
4	UNVT_str_hex4	<pre>typedef struct { unsigned short Byte[4]; } UNVT_str_hex4</pre>

UCPT Index	Name	SNVT / UNVT Reference
1	UCPTstring1	SNVT_str_asc
2	UCPTstring2	SNVT_str_asc
3	UCPTstring3	SNVT_str_asc
4	UCPTstring4	SNVT_str_asc
5	UCPTstring5	SNVT_str_asc
6	UCPTstring6	SNVT_str_asc
7	UCPTgeneralCP1	SNVT_state
8	UCPTgeneralCP2	SNVT_state
9	UCPTspEditDelta	SNVT_temp_p
10	UCPTstepFactor	SNVT_count
11	UCPTlightRatio	SNVT_muldiv
12	UCPTspOffsetRng	SNVT_temp_p
13	UCPTfanSpdStages	SNVT_count
14	UCPTReverseDelay	SNVT_count
15	UCPTmenueConfig	UNVT_menu_config

UCPT Index	Name	SNVT / UNVT Reference
16	UCPTdisplayTime	SNVT_time_sec
17	UCPTrhSpOffsetRg	SNVT_lev_percent
18	UCPTspAntiFreez	SNVT_temp_p
19	UCPTheatXp	SNVT_temp_p
20	UCPTheatTn	SNVT_time_min
21	UCPTheatTv	SNVT_time_min
22	UCPTcoolXp	SNVT_temp_p
23	UCPTcoolTn	SNVT_time_min
24	UCPTcoolTv	SNVT_time_min
25	UCPTsccTc	SNVT_time_min
26	UCPTheatMinNight	SNVT_lev_percent
27	UCPTheatMinDay	SNVT_lev_percent
28	UCPTheatMax	SNVT_lev_percent
29	UCPTcoolMinNight	SNVT_lev_percent
30	UCPTcoolMinDay	SNVT_lev_percent
31	UCPTcoolMax	SNVT_lev_percent
32	UCPTreheatLevel	SNVT_lev_percent
33	UCPTfanTiming	UNVT_fan_timing
34	UCPTvalveDirect	SNVT_state
35	UCPTpwmCycleTime	SNVT_time_min
36	UCPTfanStageLev	UNVT_fan_stg_lev
37	UCPTfanStgMinDay	SNVT_count
38	UCPTdiDebounce	SNVT_count
39	UCPTenoceanID	UNVT_str_hex4
40	UCPTspMinValue	SNVT_temp_p
41	UCPTspMaxValue	SNVT_temp_p
42	UCPTdeviceType	SNVT_count
43	UCPTenoceanRcvTm	SNVT_time_min
44	UCPTdiConfig	UNVT_str_hex4
45	UCPTtimeConfig	UNVT_str_hex4
46	UCPTdisplConfig	SNVT_state
47	UCPTbacklightMax	SNVT_lev_cont

UCPT Index	Name	SNVT / UNVT Reference
48	UCPTbacklightMin	SNVT_lev_cont
49	not used	not used
50	UCPTinvertOutput	SNVT_state
51	UCPTcontrolType	UNVT_str_hex4
52	UCPTHysteresisCtrl1	SNVT_temp_p
53	UCPTHysteresisCtrl2	SNVT_temp_p
54	UCPTxpCtrl1	SNVT_temp_p
55	UCPTtnCtrl1	SNVT_temp_p
56	UCPTxpCtrl2	SNVT_temp_p
57	UCPTtnCtrl2	SNVT_temp_p
58	UCPTspOffsetCtrl2	SNVT_temp_p
59	not used	not used
60	UCPToccupancy	SNVT_occupancy
61	UCPTcontrolConfig	SNVT_state
62	UCPTminUnoccupiedCtrl1	SNVT_lev_percent
63	UCPTminUnoccupiedCtrl2	SNVT_lev_percent
64	UCPTminOccupiedCtrl1	SNVT_lev_percent
65	UCPTminOccupiedCtrl2	SNVT_lev_percent
66	UCPTmaxCtrl1	SNVT_lev_percent
67	UCPTmaxCtrl2	SNVT_lev_percent
68	UCPTvalveServiceTime	SNVT_time_hour
69	UCPTvalveServiceDuration	SNVT_time_min
70	UCPTchangeEncoder	SNVT_lev_percent
71	UCPTlongPressTime	typedef struct { SNVT_time_sec dimming; SNVT_time_sec sunblind; SNVT_time_sec scene; SNVT_time_sec universal; }
72	UCPTsunblindUP	SNVT_setting
73	UCPTsunblindDOWN	SNVT_setting
74	UCPTsunblindSTOP	SNVT_setting
75	UCPTsunblindIDLE	SNVT_setting
76	UCPTsetting	SNVT_setting

UCPT Index	Name	SNVT / UNVT Reference
77	UCPTswitch	SNVT_switch
78	UCPTlongPressTime	typedef struct { SNVT_time_sec dimming; SNVT_time_sec sunblind; SNVT_time_sec scene; SNVT_time_sec universal; }
79	UCPTnrOfSubMenus	Unsigned short
80	UCPTshowSubMenuDuration	SNVT_time_sec
81	UCPTfanAccByCtr	typedef enum { MEM_NUL = -1; DISABLE = 0; ENABLE = 1; } th_on_off_t;