

# 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\_DRF28.exe

**Thermokon\_DRF28.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 2.7

UNVT Index	Name	Data Type
1	UNVT_menu_config	<pre> typedef struct {  unsigned shortAnzahl_Zeilen;  unsigned shortIndex_Zeile_1; unsigned shortIndex_Zeile_2; unsigned shortIndex_Zeile_3; unsigned shortIndex_Zeile_4; unsigned shortIndex_Zeile_5; unsigned shortIndex_Zeile_6; unsigned shortIndex_Zeile_7; unsigned shortIndex_Zeile_8; unsigned shortIndex_Zeile_9; unsigned shortIndex_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; </pre>

UNVT Index	Name	Data Type
		} UNVT_fan_timing;
3	UNVT_fan_stg_lev	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
4	UNVT_str_hex4	typedef struct { unsigned shortByte[4]; } UNVT_str_hex4
6	UNVT_longPressTime	typedef struct { SNVT_time_sec    dimming; SNVT_time_sec    sunblind; SNVT_time_sec    scene; SNVT_time_sec    universal; } UNVT_str_hex4

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

UCPT Index	Name	SNVT / UNVT Reference
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	UCPTRReverseDelay	SNVT_count
15	UCPTmenueConfig	UNVT_menu_config
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

UCPT Index	Name	SNVT / UNVT Reference
40	UCPTspMinValue	SNVT_temp_p
41	UCPTspMaxValue	SNVT_temp_p
42	UCPTdeviceType	SNVT_count
43	UCPTenocanRcvTm	SNVT_time_min
44	UCPTdiConfig	UNVT_str_hex4
45	UCPTtimeConfig	UNVT_str_hex4
46	UCPTdisplConfig	SNVT_state
47	UCPTbacklightMax	SNVT_lev_cont
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 {

UCPT Index	Name	SNVT / UNVT Reference
		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
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;
82	UCPTledConfig	Unsigned short
83	UCPTkeyVolume	SNVT_lev_cont
85	UCPTcleanTime	SNVT_time_sec
86	UCPTfunction	Unsigned char
87	UCPTbyte	Signed long