

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 Automatic installation with Thermokon_DRF15.exe

- For installation, **LONMARK resource file API Version 2.3** or latest version is required. Otherwise, the files cannot be read. The new API is available for download from:
<http://www.lonmark.org/products/snvtfile.htm>
- **Thermokon_DRF15.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.

1.1.2 Manual Installation

- For installation, **LONMARK resource file API Version 2.3** or latest version is required. Otherwise, the files cannot be read. The new API is available for download from:
<http://www.lonmark.org/products/snvtfile.htm>
- 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 1.5

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	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 short Byte[4]; } UNVT_str_hex4

UCPT Index	Name	SNVT / UNVT Referenz
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
16	UCPTdisplayTime	SNVT_time_sec
17	UCPTRhSpOffsetRg	SNVT_lev_percent
18	UCPTspAntiFreez	SNVT_temp_p
19	UCPTheatXp	SNVT_temp_p

UCPT Index	Name	SNVT / UNVT Referenz
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	UCPTscdTc	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