

# 1 Thermokon Resource Files

Die Resource Files bestehen aus

|                |   |      |
|----------------|---|------|
| Thermokon.typ, | Netzwerkvariablen Typen                       | UNVT |
|                | Konfigurationsparameter Typen                 | UCPT |
| Thermokon.fpt, | Funktionsprofile                              | UFPT |
| Thermokon.enu, | Sprache für Textinformationen (US-Englisch)   |      |
| Thermokon.fmt  | Formatierung zur Anzeige im Installationstool |      |

## 1.1 Installation

### 1.1.1 Voraussetzungen

- Zur Installation wird die **LONMARK resource file API Version 2.3** oder neuer benötigt. Ansonsten können die Dateien nicht gelesen werden.
- Alternativ empfehlen wir die Installation der **LonMark® Resource Files Version 13.00**. Hierbei wird die "LONMARK resource file API" automatisch aktualisiert.
- Sowohl die API als auch die Resource-Files stehen auf der LonMark-Hompage zum Download bereit: <http://www.lonmark.org/products/snvtfile.htm>

### 1.1.2 Automatische Installation mit Thermokon\_DRF28.exe

- **Thermokon\_DRF28.exe** kopiert die Device-Resource-Files und die Datei DRF\_Install.exe in das Verzeichnis ...\\LonWorks\\types\\User\\Thermokon und aktualisiert das Catalog-File **LDRF.cat**. Neue Verzeichnisse werden hierbei automatisch erstellt.
- Die Installationsdatei steht auf der Thermokon-Hompage zum Download bereit: <http://www.thermokon.de>

### 1.1.3 Manuelle Installation

- Kopieren der Resource Files in das Verzeichnis ...\\LonWorks\\types\\User\\Thermokon
- Starten des **LonMark Device Resource File Catalog Browsers** über Start/Programme/LNS Utilities / LNS Ressources Files Catalog Utility
- startup - Fenster: **OK**
- open a catalog - Fenster: **OK**
- edit a catalog - Fenster: mit **Add a new directory** ein neues Verzeichnis Lonworks\\types\\user\\Thermokon einfügen
- aktualisieren mit **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   | <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 shortByte[4]; } UNVT_str_hex4</pre>  |
| 6          | UNVT_longPressTime | <pre>typedef struct {   SNVT_time_sec    dimming;   SNVT_time_sec    sunblind;   SNVT_time_sec    scene;   SNVT_time_sec    universal; } UNVT_str_hex4</pre>  |

| UCPT Index | Name           | SNVT / UNVT<br>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              |

| UCPT Index | Name              | SNVT / UNVT<br>Referenz |
|------------|-------------------|-------------------------|
| 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           |
| 40         | UCPTspMinValue    | SNVT_temp_p             |
| 41         | UCPTspMaxValue    | SNVT_temp_p             |

| UCPT Index | Name                     | SNVT / UNVT<br>Referenz   |
|------------|--------------------------|---|
| 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 {<br>SNVT_time_sec dimming;<br>SNVT_time_sec sunblind;<br>SNVT_time_sec scene;<br>SNVT_time_sec universal; } |

| UCPT Index | Name                    | SNVT / UNVT<br>Referenz   |
|------------|-------------------------|---|
| 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 {<br>SNVT_time_sec dimming;<br>SNVT_time_sec sunblind;<br>SNVT_time_sec scene;<br>SNVT_time_sec universal; } |
| 79         | UCPTnrOfSubMenus        | Unsigned short  |
| 80         | UCPTshowSubMenuDuration | SNVT_time_sec   |
| 81         | UCPTfanAccByCtr         | typedef enum {<br>MEM_NUL = -1;<br>DISABLE = 0;<br>ENABLE = 1;<br>} 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   |