

EN – Software Description

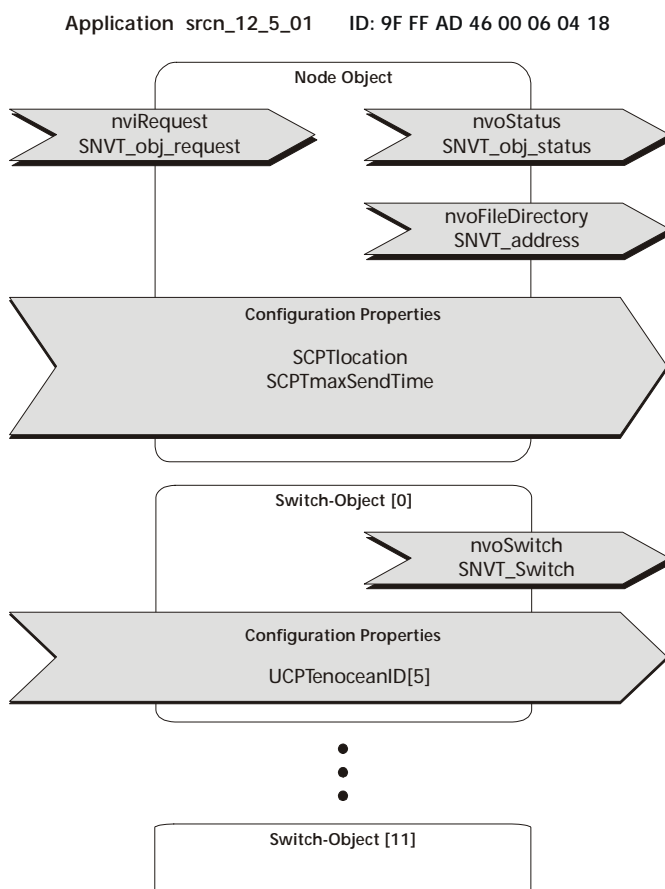
Subject to technical alteration
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1 Overview

The application enables the receipt and the evaluation of max. 5 SRW01 Thermokon window contacts per switch object. Thus, 60 window contacts can be evaluated at maximum.

The application uses standard network variables (SNVT) and standard configuration properties (SCPT). For extended adjustment options user-defined configuration properties (UCPT) are used. The UCPTs used are defined in the **Thermokon Device Resource Files** from **Version 1.4** or higher and shall be installed to the PC before any device defaults are made by installation tool.



Node Object: Beside the network variables prescribed by the LonMark, the object includes further general network variables and configuration properties for the control and parametrization of the objects.

Switch-Objects: Twelve identical objects for detection and evaluation of window contacts. For each switch-object 5 window contacts can be connected. The individual window contacts of a switch object are logical OR circuit linked. If the contact is open *nvoSwitch* is = 100.0 1 respectively if all window contacts are closed *nvoSwitch* is = 0.0 0.

Installation: The sensor-ID is entered manually into the property UCPTenoceanID[...] of each object. UCPTenoceanID[...] is an array. Thus, up to 5 sensor-Ids can be entered.

1.1 Seamless Connection of Window Contact

Connection of Window Contact

Step 1: For the connection of the individual sensors the configuration property UCPTenoceanID[...] in the switchObject is used. When using the LONMaker, the configuration window shown below can be opened by a double click to the parameter.

Edit Configuration Property Table

Object Name:
Subsystem 1/src_srw01/Switch_object[0]/UCPTenoceanID

Change data here for selected entry:
0

	Byte[0]	Byte[1]	Byte[2]	Byte[3]
UCPTenoceanID[0]	0	0	0	33
UCPTenoceanID[1]	0	0	a	2
UCPTenoceanID[2]	0	0	0	0
UCPTenoceanID[3]	0	0	0	0
UCPTenoceanID[4]	0	0	0	0

SRW 1 →
SRW 2 →
SRW 3 →
SRW 4 →
SRW 5 →

Buttons: OK, Cancel, Apply, Help

Step 2: Enter the Sensor-ID of the window contact.

Clear ID

Enter the UCPTenoceanID 0,0,0,0 into the switch-object that shall be cleared.

2 Node Object

The Node Object supervises and controls the functions of the individual objects in the device. The basic functionality prescribed by the LonMark® is supported, whereas general network variables and configuration properties for the control and parameterization of the sensor objects were added.

2.1 Input Variables Node Object

nviRequest

SNVT Type: SNVT_obj_request, Index 92

Function: Input variable including the functions RQ_NORMAL, RQ_UPDATE_STATUS und RQ_REPORT_MASK.

2.2 Output Variables Node Object

nvoStatus

SNVT Type: SNVT_obj_status, Index 93

Function: Output variables with the requested status bits „invalid_id“ and „invalid_request“.

Configuration Property Node Object:

SCPTlocation

SCPT Index: 17, SNVT_str_asc

Function: Additional input possibility (max. 30 signs) in order to store information on the location.

SCPTmaxSendTime

SCPT Index: 49, SNVT_time_sec

Function: Heartbeat function. Stipulates the interval time after which all output variables of the device are sent independent of a value change. By input values = 0 the heartbeat function is deactivated.

(Preset value: 0, i.e. the output variables are only sent if a button telegram was received)

3 Switch-Objects

Twelve identical objects for detection of SRW01. The window contacts of a switch object are logical OR circuit linked.

3.1 Output Variables Switch-Object

nvoSwitch

SNVT Type: SNVT_switch, Index 95

Function: Output variable for status indication of the window contacts. The individual window contacts of a switch-object are logical OR circuit linked.

1 or more window contacts open: *nvoSwitch = 100.0 1*

all window contacts are closed: *nvoSwitch = 0.0 0.*

Data output is made with each new radio telegram received and depending on the configuration property SCPTmaxSendTime.

3.2 Configuration Property Switch-Object

UCPTenoceanID

UCPT Index: 39, UNVT_str_hex4

Function: The Array Parameter UCPTenoceanID[...] allocates up to 5 window contacts to each object. Indication format of the 32 Bit sensor-Ids in the browser in hex:
ID-Byte3, ID-Byte2, ID-Byte1, ID-Byte0