

# LON Standard Support

## Description of predefined network variables in LONWorks network

This section includes descriptions of SNVT variables (Standard Network Variable Types) according to the assigned REMAK data points.

### Input variables:

**Network Name:** nviTemp00  
**Description:** Max. return water temperature – VO heater  
**Object:** SNVT\_temp\_p

**Network Name:** nviTemp01  
**Description:** Cooling enabling temperature  
**Object:** SNVT\_temp\_p

**Network Name:** nviTemp02  
**Description:** Minimum inlet air temperature  
**Object:** SNVT\_temp\_p

**Network Name:** nviTemp03  
**Description:** Maximum inlet air temperature  
**Object:** SNVT\_temp\_p

**Network Name:** nviTemp04  
**Description:** Room temperature (exhaust)  
**Object:** SNVT\_temp\_p

**Network Name:** nviTemp05  
**Description:** Outdoor temperature  
**Object:** SNVT\_temp\_p

**Network Name:** nviPress00  
**Description:** Required maximum humidity  
**Object:** SNVT\_press\_p

**Network Name:** nviPress01  
**Description:** N/A  
**Object:** SNVT\_press\_p

**Network Name:** nviPress02  
**Description:** N/A  
**Object:** SNVT\_press\_p

**Network Name:** nviPress03  
**Description:** N/A  
**Object:** SNVT\_press\_p

**Network Name:** nviPress04  
**Description:** N/A  
**Object:** SNVT\_press\_p

**Network Name:** nviFlow00  
**Description:** Failure release  
**Values:** 0 OK  
 1 Reset  
**Object:** SNVT\_flow

**Network Name:** nviFlow01  
**Description:** Temperature mode  
**Values:** 0 Ventilation  
 1 Economy  
 2 Comfort  
**Object:** SNVT\_flow

**Network Name:** nviFlow02  
**Description:** N/A  
**Object:** SNVT\_flow

**Network Name:** nviFlow03  
**Description:** N/A  
**Object:** SNVT\_flow

**Network Name:** nviFlow04  
**Description:** N/A  
**Object:** SNVT\_flow

**Network Name:** nviPerc00  
**Description:** Fan output  
**Values:** 0 1St  
*according to application 2St, 5St, Var (10 to 100)%*  
 1 2St  
 2 3St  
 3 4St  
 4 5St  
**Object:** SNVT\_lev\_count

**Network Name:** nviPerc01  
**Description:** Minimum fresh air flow rate  
**Object:** SNVT\_lev\_count

**Network Name:** nviSwitch00  
**Description:** N/A  
**Object:** SNVT\_switch

**Network Name:** nviResetAlarm  
**Description:** N/A  
**Object:** SNVT\_switch

**Network Name:** nviBMS  
**Description:** N/A  
**Object:** SNVT\_state

**Network Name:** nviActTime  
**Description:** System time of the controller  
**Object:** SNVT\_time\_stamp

**Network Name:** nviUniState2  
**Description:** Required device operating state  
**Values:** 0 Stop  
 1 Program  
 2 Manual  
**Object:** SNVT\_state

### Output variables:

**Network Name:** nvoAlarm  
**Description:** refer to table ↓  
**Object:** SNVT\_state\_64  
 \*Reverse view on Tool

bit 0	Outdoor sensor
bit 1	Return water sensor, VO heater
bit 2	Inlet sensor
bit 3	Water preheating sensor
bit 4	Heat exchanger freezing sensor
bit 5	Room sensor, QAA
bit 6	Fan failure
bit 7	Water heating pump
bit 8	Water heater (water, air)
bit 9	Electric preheating
bit 10	Electric reheating
bit 11	Electric heater
bit 12	Water preheating
bit 13	Cooler failure
bit 14	Heat exchanger freezing
bit 15	External failure
bit 16	Inlet filter fouling
bit 17	Outlet filter fouling
bit 18	Inlet humidity sensor
bit 19	Room humidity sensor

## LON Standard Support

### Output variables (continued):

<b>Network Name:</b>	nvoTemp00
<b>Description:</b>	Current (required) heating temperature
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoTemp01
<b>Description:</b>	Current (required) cooling temperature
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoTemp02
<b>Description:</b>	N/A
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoTemp03
<b>Description:</b>	Water heater preheating return water temperature
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoTemp04
<b>Description:</b>	Temperature behind the electric pre-heater
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoTemp05
<b>Description:</b>	Outdoor temperature
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoTemp06
<b>Description:</b>	Inlet temperature
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoTemp07
<b>Description:</b>	Return water temperature
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoTemp08
<b>Description:</b>	Room temperature (exhaust)
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoTemp09
<b>Description:</b>	DHW required temperature
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoTemp10
<b>Description:</b>	Heat Exchanger temperature
<b>Object:</b>	SNVT_temp_p
<b>Network Name:</b>	nvoPress00
<b>Description:</b>	Inlet humidity
<b>Object:</b>	SNVT_press_p
<b>Network Name:</b>	nvoPress01
<b>Description:</b>	Outlet humidity
<b>Object:</b>	SNVT_press_p
<b>Network Name:</b>	nvoPress10
<b>Description:</b>	N/A
<b>Object:</b>	SNVT_press_p
<b>Network Name:</b>	nvoPress11
<b>Description:</b>	Fan state
<b>Values:</b>	0 Off 1 On
<b>Object:</b>	SNVT_press_p
<b>Network Name:</b>	nvoFlow00
<b>Description:</b>	Fan output (manual)
<b>Values:</b>	according to application 2St, 5St, Var (10 to 100)% 0 1St 1 2St 2 3St 3 4St 4 5St
<b>Object:</b>	SNVT_flow
<b>Network Name:</b>	nvoFlow01
<b>Description:</b>	Temperature mode (manual)
<b>Values:</b>	0 Ventilation 1 Economy 2 Komfortní
<b>Object:</b>	SNVT_flow
<b>Network Name:</b>	nvoPerc00
<b>Description:</b>	Heater output
<b>Object:</b>	SNVT_lev_count

<b>Network Name:</b>	nvoPerc01
<b>Description:</b>	Cooling output
<b>Object:</b>	SNVT_lev_count
<b>Network Name:</b>	nvoPerc02
<b>Description:</b>	Mixing output
<b>Object:</b>	SNVT_lev_count
<b>Network Name:</b>	nvoPerc03
<b>Description:</b>	Heat exchanger output
<b>Object:</b>	SNVT_lev_count
<b>Network Name:</b>	nvoPerc04
<b>Description:</b>	Damper state
<b>Values:</b>	0 Off 1 On
<b>Object:</b>	SNVT_lev_count
<b>Network Name:</b>	nvoPerc05
<b>Description:</b>	Fan operation
<b>Values:</b>	according to application 2St, 5St, Var (10 to 100)% 0 Off 1 1St 2 2St 3 3St 4 4St 5 5St
<b>Object:</b>	SNVT_lev_count
<b>Network Name:</b>	nvoPerc06
<b>Description:</b>	Compressor operation
<b>Values:</b>	according to application 1st, Wtr: 0 Off 1 Off according to application 2St: 1 On 2 1st 3 2st
<b>Object:</b>	SNVT_lev_count
<b>Network Name:</b>	nvoPerc07
<b>Description:</b>	Batch failure signalling
<b>Values:</b>	0 OK 1 Alarm
<b>Object:</b>	SNVT_lev_count
<b>Network Name:</b>	nvoOpMode
<b>Description:</b>	N/A
<b>Object:</b>	SNVT_switch
<b>Network Name:</b>	nvoSwitch00
<b>Description:</b>	N/A
<b>Object:</b>	SNVT_switch
<b>Network Name:</b>	nvoSwitch01
<b>Description:</b>	N/A
<b>Object:</b>	SNVT_switch
<b>Network Name:</b>	nvoCount00
<b>Description:</b>	Nevyužito
<b>Object:</b>	SNVT_count_f
<b>Network Name:</b>	nvoCount01
<b>Description:</b>	N/A
<b>Object:</b>	SNVT_count_f
<b>Network Name:</b>	nvoUniState1
<b>Description:</b>	Active control sequence
<b>Values:</b>	0 Cooling 1 Mix 2 Heat recovery 3 Heating 4 Off
<b>Object:</b>	SNVT_state *Reverse view on Tool
<b>Network Name:</b>	nvoUniState2
<b>Description:</b>	Actual device operating state
<b>Values:</b>	0 Stop 1 Program 2 Manual
<b>Object:</b>	SNVT_state *Reverse view on Tool