TROX TECHNIK

EASYLAB

Expansion module EM-LON

LonWorks®-Interface

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Quick reference of LonWorks® interface   EM-LON Firmware V1.0 .. V2.0

As of software version EM-LON V1.0 and TCU3 with V1.x, V2.x - Available data points:

Name of variable EM-LON Firmware version as of 1.0	Data type	FH	RR	TAM	RR RMF	TAM RMF	Description
nviManOverride	SNVT_hvac_overid	x			x	x	Operation mode preset for controller or room (1)
nviMode	SNVT_state	x			x	x	Operation mode preset for controller or room (1)
nviOccCmd	SNVT_occupancy	x			x	x	Operation mode preset for controller or room (1)
nviManOP_Disable	SNVT_switch	x			x	x	Enable/Disable hand mode (1)
nviVolOffset_T	SNVT_switch				x	x	Preset volume flow offset temperature control
nviVolOffset_P	SNVT_switch				x	x	Preset volume flow offset external pressure control
nviPressSetSel	SNVT_switch				x	x	Changeover between pressure setpoint 1 and 2
nvoManOverride	SNVT_hvac_overid	x	x		x		Current operation mode - Controller
nvoManOverride_R	SNVT_hvac_overid				x	x	Current operation mode - Room
nvoMode	SNVT_state	x	x		x		Current operation mode - Controller
nvoMode_R	SNVT_state				x	x	Current operation mode - Room
nvoOccCmd	SNVT_occupancy	x	x		x		Current operation mode - Controller
nvoOccCmd_R	SNVT_occupancy				x	x	Current operation mode - Room
nvoVolflowSet	SNVT_flow	x	x		x		Volume flow setpoint - Controller
nvoVolflowAct	SNVT_flow	x	x		x		Current volume flow - Controller
nvoVolTotalExh	SNVT_flow	x	x	x	x	x	Total extract air - Room
nvoVolTotalSup	SNVT_flow	x	x	x	x	x	Total supply air - Room
nvoPressSet	SNVT_press_p				x	x	Pressure setpoint
nvoPressAct	SNVT_press_p				x	x	Current pressure value
nvoLocalAlarm	SNVT_switch	x	x	x	x	x	Alarm – Controller
nvoSummaryAlarm	SNVT_switch				x	x	Configured summary alarm – Room
nvoPressAlarm	SNVT_switch				x	x	Pressure alarm
nvoVelocitySet	SNVT_speed_mil	x					Face velocity – Current value
nvoVelocityAct	SNVT_speed_mil	x					Face velocity – Setpoint
nvoSwitchPos	SNVT_Count	x					Current sash position (Level 1,2,3)
nvoWireSensorPos	SNVT_switch	x					Current sash position (Opening %)
nvoDampPos	SNVT_switch	x	x		x		Damper position – Controller
nvoDampPosMax_FH	SNVT_switch	x	x	x	x	x	Evaluated damper position Fume cupboard controllers – Maximum opening
nvoDampPosMin_FH	SNVT_switch	x	x	x	x	x	Evaluated damper position Fume cupboard controllers – Minimum opening
nvoDampPosMax_RE	SNVT_switch	x	x	x	x	x	Evaluated damper position Extract air controllers – Maximum opening
nvoDampPosMin_RE	SNVT_switch	x	x	x	x	x	Evaluated damper position Extract air controllers – Minimum opening
nvoDampPosMax_TE	SNVT_switch	x	x	x	x	x	Evaluated damper position Total extract air - Maximum opening.
nvoDampPosMin_TE	SNVT_switch	x	x	x	x	x	Evaluated damper position Total extract air – Minimum opening
nvoDampPosMax_RS	SNVT_switch	x	x	x	x	x	Evaluated damper position Supply air controllers – Maximum opening
nvoDampPosMin_RS	SNVT_switch	x	x	x	x	x	Evaluated damper position Supply air controllers – Minimum opening

As of software versions EM-LON V2.0 and TCU3 with V3.0 - Additionally following data points are available:

Name of variable EM-LON Firmware version as of 1.0	Data type	FH	RR	TAM	RR RMF	TAM RMF	Description
nviSunblinder	SNVT_switch				x	x	Sun blind control
nviVolflowExh	SNVT_flow	x	x	x	x	x	Integration of extract volume flows in room balance
nviVolflowSup	SNVT_flow	x	x	x	x	x	Integration of supply volume flows in room balance
nvoSystemDevices	SNVT_count	x	x	x	x	x	Number of EASYLAB devices within this system
nvoStateDIO	SNVT_state	x	x	x	x	x	Status of digital inputs/outputs of TCU3

Explanation of used abbreviations:

FH:	available on fume cupboard controllers
RR	available on room controllers (Supply-/Extract air controller)
TAM	available on TROX Adaption Module TAM
RR RMF	available on room controllers with activated Room-Management-Function (RMF)
TAM RMF	available on TROX Adaption Modules with activated Room-Management-Function (RMF)
(1)	valid for total room, if used at room controller / TAM with activated Room-Management-Function (RMF)

Note: Detailed information to all LonWorks® variables can be found within the technical leaflet of EASYLAB expansion module EM-LON.