



Heatcraft Smart Controller Protocol Converter LonWorks Registers

Bulletin No. H-IM-LON

November 2017

Part Number 25008901

Replaces H-IM-LON (09/2015)

Heatcraft Smart Controller Protocol Converter LonWorks Registers

Applicable for Bohn, Larkin,
Climate Control, and Chandler brands

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IV #	SNVT	NV Name	Direction	Element	Refresh Time	Display Name	Object Type	Reference Name	BACnet Property	Units	Default Value	Control Program
0	SWT_count_inc(9)	nvoS1ADurTm	Output (active) - default	Second press cancels override	60	Sys 1 Alarm Duration Time Status	AV	s_1_al_dur_tm	Present Value	min		hc_std_4_sys_rev_002.equipment
1	SWT_temp_p(105)	nvoS1BoxT	Output (active) - default	Second press cancels override	60	Sys 1 Box Temp Status	AV	s_1_box_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
2	SWT_count_inc(9)	nvoS1CmpCyc	Output (active) - default	Second press cancels override	60	Sys 1 Comp Cycles Status	AV	s_1_cmp_cyc	Present Value	no units		hc_std_4_sys_rev_002.equipment
3	SWT_temp_p(105)	nvoS1HBxT	Output (active) - default	Second press cancels override	60	Sys 1 High Box Temp Alarm Setpoint Status	AV	s_1_hi_bx_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
4	SWT_temp_p(105)	nvoS1LoBxT	Output (active) - default	Second press cancels override	60	Sys 1 Low Box Temp Alarm Setpoint Status	AV	s_1_lo_bx_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
5	SWT_count_inc(9)	nvoS1THEvS	Output (active) - default	Second press cancels override	60	Sys 1 Total Evaps Status	AV	s_1_ttl_ews	Present Value	no units		hc_std_4_sys_rev_002.equipment
6	SWT_count_inc(9)	nvoS1U1ErCd	Output (active) - default	Second press cancels override	60	Sys 1 Unit 1 Error Code Status	AV	s_1_u_1_er_cd	Present Value	no units		hc_std_4_sys_rev_002.equipment
7	SWT_temp_p(105)	nvoS1U1EvSnT	Output (active) - default	Second press cancels override	60	Sys 1 Unit 1 Evap Suct Temp Status	AV	s_1_u_1_ev_sn_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
8	SWT_count_inc(9)	nvoS1U1EvSnPrs	Output (active) - default	Second press cancels override	60	Sys 1 Unit 1 Evap Suction Pressure Status	AV	s_1_u_1_ev_sn_prs	Present Value	psi		hc_std_4_sys_rev_002.equipment
9	SWT_temp_p(105)	nvoS1U1EvSphtSt	Output (active) - default	Second press cancels override	60	Sys 1 Unit 1 Evap Superheat Status	AV	s_1_u_1_ev_spht_st	Present Value	°F		hc_std_4_sys_rev_002.equipment
10	SWT_count_inc(9)	nvoS1U2ErCd	Output (active) - default	Second press cancels override	60	Sys 1 Unit 2 Error Code Status	AV	s_1_u_2_er_cd	Present Value	no units		hc_std_4_sys_rev_002.equipment
11	SWT_count_inc(9)	nvoS1U2EvSnPrs	Output (active) - default	Second press cancels override	60	Sys 1 Unit 2 Evap Suction Pressure Status	AV	s_1_u_2_ev_sn_prs	Present Value	psi		hc_std_4_sys_rev_002.equipment
12	SWT_temp_p(105)	nvoS1U2EvSnT	Output (active) - default	Second press cancels override	60	Sys 1 Unit 2 Evap Suction Temp Status	AV	s_1_u_2_ev_sn_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
13	SWT_temp_p(105)	nvoS1U2EvSphtSt	Output (active) - default	Second press cancels override	60	Sys 1 Unit 2 Evap Superheat Status	AV	s_1_u_2_ev_spht_st	Present Value	°F		hc_std_4_sys_rev_002.equipment
14	SWT_count_inc(9)	nvoS1U3ErCd	Output (active) - default	Second press cancels override	60	Sys 1 Unit 3 Error Code Status	AV	s_1_u_3_er_cd	Present Value	no units		hc_std_4_sys_rev_002.equipment
15	SWT_count_inc(9)	nvoS1U3EvSnPrs	Output (active) - default	Second press cancels override	60	Sys 1 Unit 3 Evap Suction Pressure Status	AV	s_1_u_3_ev_sn_prs	Present Value	psi		hc_std_4_sys_rev_002.equipment
16	SWT_temp_p(105)	nvoS1U3EvSnT	Output (active) - default	Second press cancels override	60	Sys 1 Unit 3 Evap Suction Temp Status	AV	s_1_u_3_ev_sn_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
17	SWT_temp_p(105)	nvoS1U3EvSphtSt	Output (active) - default	Second press cancels override	60	Sys 1 Unit 3 Evap Superheat Status	AV	s_1_u_3_ev_spht_st	Present Value	°F		hc_std_4_sys_rev_002.equipment
18	SWT_count_inc(9)	nvoS1U4ErCd	Output (active) - default	Second press cancels override	60	Sys 1 Unit 4 Error Code Status	AV	s_1_u_4_er_cd	Present Value	no units		hc_std_4_sys_rev_002.equipment
19	SWT_count_inc(9)	nvoS1U4EvSnPrs	Output (active) - default	Second press cancels override	60	Sys 1 Unit 4 Evap Suction Pressure Status	AV	s_1_u_4_ev_sn_prs	Present Value	psi		hc_std_4_sys_rev_002.equipment
20	SWT_temp_p(105)	nvoS1U4EvSnT	Output (active) - default	Second press cancels override	60	Sys 1 Unit 4 Evap Suction Temp Status	AV	s_1_u_4_ev_sn_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
21	SWT_temp_p(105)	nvoS1U4EvSphtSt	Output (active) - default	Second press cancels override	60	Sys 1 Unit 4 Evap Superheat Status	AV	s_1_u_4_ev_spht_st	Present Value	°F		hc_std_4_sys_rev_002.equipment
22	SWT_switch(95)	nvoS1ArmBit0	Output (active) - default	Value	60							hc_std_4_sys_rev_002.equipment
22	SWT_switch(95)	nvoS1ArmBit0	Output (active) - default	State	60	Sys 1 Alarm Bit 0	BV	s_1_alm_bit_0	Present Value			hc_std_4_sys_rev_002.equipment
23	SWT_switch(95)	nvoS1ArmBit1	Output (active) - default	Value	60							hc_std_4_sys_rev_002.equipment

Note: Priority and Acknowledge parameters for all items in the table are 'FALSE'

NV #	SNVT	NV Name	Direction	Element	Refresh Time	Display Name	Object Type	Reference Name	BACnet Property	Units	Default Value	Control Program
23	SNVT_switch(95)	nvoS1AlmBit1	Output (active) - default	State	60	Sys 1 Alarm Bit 1	BV	s_1_alm_bit_1	Present Value			hc_std_4_sys_rev_002.equipment
24	SNVT_switch(95)	nvoS1AlmBit2	Output (active) - default	Value	60							hc_std_4_sys_rev_002.equipment
24	SNVT_switch(95)	nvoS1AlmBit2	Output (active) - default	State	60	Sys 1 Alarm Bit 2	BV	s_1_alm_bit_2	Present Value			hc_std_4_sys_rev_002.equipment
25	SNVT_switch(95)	nvoS1AlmBit3	Output (active) - default	Value	60							hc_std_4_sys_rev_002.equipment
25	SNVT_switch(95)	nvoS1AlmBit3	Output (active) - default	State	60	Sys 1 Alarm Bit 3	BV	s_1_alm_bit_3	Present Value			hc_std_4_sys_rev_002.equipment
26	SNVT_temp_p(105)	nvoS1BxT	Output (active) - default	Second press cancels override	60	Sys 1 Box Temp Setpoint Status	AV	s_1_bx_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
27	SNVT_temp_p(105)	nvoS2HIBxT	Output (active) - default	Second press cancels override	60	Sys 2 High Box Temp Alarm Setpoint Status	AV	s_2_hi_bx_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
28	SNVT_temp_p(105)	nvoS2LoBxT	Output (active) - default	Second press cancels override	60	Sys 2 Low Box Temp Alarm Setpoint Status	AV	s_2_lo_bx_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
29	SNVT_count_inc(9)	nvoS2TtlEvs	Output (active) - default	Second press cancels override	60	Sys 2 Total Evaps Status	AV	s_2_ttl_evs	Present Value	no units		hc_std_4_sys_rev_002.equipment
30	SNVT_count_inc(9)	nvoS2U1ErCd	Output (active) - default	Second press cancels override	60	Sys 2 Unit 1 Error Code Status	AV	s_2_u_1_er_cd	Present Value	no units		hc_std_4_sys_rev_002.equipment
31	SNVT_temp_p(105)	nvoS2U1EvSnT	Output (active) - default	Second press cancels override	60	Sys 2 Unit 1 Evap Suct Temp Status	AV	s_2_u_1_ev_sn_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
32	SNVT_count_inc(9)	nvoS2U1EvSnPrs	Output (active) - default	Second press cancels override	60	Sys 2 Unit 1 Evap Suction Pressure Status	AV	s_2_u_1_ev_sn_prs	Present Value	psi		hc_std_4_sys_rev_002.equipment
33	SNVT_temp_p(105)	nvoS2U1EvSphtSt	Output (active) - default	Second press cancels override	60	Sys 2 Unit 1 Evap Superheat Status	AV	s_2_u_1_ev_spht_st	Present Value	°F		hc_std_4_sys_rev_002.equipment
34	SNVT_count_inc(9)	nvoS2U2ErCd	Output (active) - default	Second press cancels override	60	Sys 2 Unit 2 Error Code Status	AV	s_2_u_2_er_cd	Present Value	no units		hc_std_4_sys_rev_002.equipment
35	SNVT_count_inc(9)	nvoS2U2EvSnPrs	Output (active) - default	Second press cancels override	60	Sys 2 Unit 2 Evap Suction Pressure Status	AV	s_2_u_2_ev_sn_prs	Present Value	psi		hc_std_4_sys_rev_002.equipment
36	SNVT_temp_p(105)	nvoS2U2EvSnT	Output (active) - default	Second press cancels override	60	Sys 2 Unit 2 Evap Suction Temp Status	AV	s_2_u_2_ev_sn_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
37	SNVT_temp_p(105)	nvoS2U2EvSphtSt	Output (active) - default	Second press cancels override	60	Sys 2 Unit 2 Evap Superheat Status	AV	s_2_u_2_ev_spht_st	Present Value	°F		hc_std_4_sys_rev_002.equipment
38	SNVT_count_inc(9)	nvoS2U3ErCd	Output (active) - default	Second press cancels override	60	Sys 2 Unit 3 Error Code Status	AV	s_2_u_3_er_cd	Present Value	no units		hc_std_4_sys_rev_002.equipment
39	SNVT_count_inc(9)	nvoS2U3EvSnPrs	Output (active) - default	Second press cancels override	60	Sys 2 Unit 3 Evap Suction Pressure Status	AV	s_2_u_3_ev_sn_prs	Present Value	psi		hc_std_4_sys_rev_002.equipment
40	SNVT_temp_p(105)	nvoS2U3EvSnT	Output (active) - default	Second press cancels override	60	Sys 2 Unit 3 Evap Suction Temp Status	AV	s_2_u_3_ev_sn_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
41	SNVT_temp_p(105)	nvoS2U3EvSphtSt	Output (active) - default	Second press cancels override	60	Sys 2 Unit 3 Evap Superheat Status	AV	s_2_u_3_ev_spht_st	Present Value	°F		hc_std_4_sys_rev_002.equipment
42	SNVT_count_inc(9)	nvoS2U4ErCd	Output (active) - default	Second press cancels override	60	Sys 2 Unit 4 Error Code Status	AV	s_2_u_4_er_cd	Present Value	no units		hc_std_4_sys_rev_002.equipment
43	SNVT_count_inc(9)	nvoS2U4EvSnPrs	Output (active) - default	Second press cancels override	60	Sys 2 Unit 4 Evap Suction Pressure Status	AV	s_2_u_4_ev_sn_prs	Present Value	psi		hc_std_4_sys_rev_002.equipment
44	SNVT_temp_p(105)	nvoS2U4EvSnT	Output (active) - default	Second press cancels override	60	Sys 2 Unit 4 Evap Suction Temp Status	AV	s_2_u_4_ev_sn_t	Present Value	°F		hc_std_4_sys_rev_002.equipment

Note: Priority and Acknowledge parameters for all items in the table are 'FALSE'

NV #	SNVT	NV Name	Direction	Element	Refresh Time	Display Name	Object Type	Reference Name	BACnet Property	Units	Default Value	Control Program
45	SWT_temp_p(105)	nvs2U4EvSphtSt	Output (active) - default	Second press cancels override	60	Sys 2 Unit 4 Evap Superheat Status	AV	s_2_u_4_ev_spht_st	Present Value	°F		hc_std_4_sys_rev_002.equipment
46	SWT_switch(95)	nvs2AlmBit0	Output (active) - default	Value	60							hc_std_4_sys_rev_002.equipment
46	SWT_switch(95)	nvs2AlmBit0	Output (active) - default	State	60	Sys 2 Alarm Bit 0	BV	s_2_alm_bit_0	Present Value			hc_std_4_sys_rev_002.equipment
47	SWT_switch(95)	nvs2AlmBit1	Output (active) - default	Value	60							hc_std_4_sys_rev_002.equipment
47	SWT_switch(95)	nvs2AlmBit1	Output (active) - default	State	60	Sys 2 Alarm Bit 1	BV	s_2_alm_bit_1	Present Value			hc_std_4_sys_rev_002.equipment
48	SWT_switch(95)	nvs2AlmBit2	Output (active) - default	Value	60							hc_std_4_sys_rev_002.equipment
48	SWT_switch(95)	nvs2AlmBit2	Output (active) - default	State	60	Sys 2 Alarm Bit 2	BV	s_2_alm_bit_2	Present Value			hc_std_4_sys_rev_002.equipment
49	SWT_switch(95)	nvs2AlmBit3	Output (active) - default	Value	60							hc_std_4_sys_rev_002.equipment
49	SWT_switch(95)	nvs2AlmBit3	Output (active) - default	State	60	Sys 2 Alarm Bit 3	BV	s_2_alm_bit_3	Present Value			hc_std_4_sys_rev_002.equipment
50	SWT_count_inc(9)	nvs2CmpCyc	Output (active) - default	Second press cancels override	60	Sys 2 Comp Cycles Status	AV	s_2_cmp_cyc	Present Value	no units		hc_std_4_sys_rev_002.equipment
51	SWT_temp_p(105)	nvs2BxT	Output (active) - default	Second press cancels override	60	Sys 2 Box Temp Status	AV	s_2_box_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
52	SWT_temp_p(105)	nvs2BxT	Output (active) - default	Second press cancels override	60	Sys 2 Box Temp Setpoint Status	AV	s_2_box_t	Present Value	°F		hc_std_4_sys_rev_002.equipment
53	SWT_count_inc(9)	nvS1AlDurTmSp	Input (passive) - default	Second press cancels override	60	Sys 1 Alarm Duration Time Setpoint	AV	s_1_al_dur_tm_sp	Present Value	min	60	hc_std_4_sys_rev_002.equipment
54	SWT_temp_p(105)	nvS1HBxTSp	Input (passive) - default	Second press cancels override	60	Sys 1 High Box Temp Alarm Setpoint	AV	s_1_hi_bx_t_sp	Present Value	°F	50	hc_std_4_sys_rev_002.equipment
55	SWT_temp_p(105)	nvS1LoBxTSp	Input (passive) - default	Second press cancels override	60	Sys 1 Low Box Temp Alarm Setpoint	AV	s_1_lo_bx_t_sp	Present Value	°F	30	hc_std_4_sys_rev_002.equipment
56	SWT_temp_p(105)	nvS1BxTSp	Input (passive) - default	Second press cancels override	60	Sys 1 Box Temp Setpoint	AV	s_1_bx_t_sp	Present Value	°F	35	hc_std_4_sys_rev_002.equipment
57	SWT_temp_p(105)	nvS2HBxTSp	Input (passive) - default	Second press cancels override	60	Sys 2 High Box Temp Alarm Setpoint	AV	s_2_hi_bx_t_sp	Present Value	°F	50	hc_std_4_sys_rev_002.equipment
58	SWT_temp_p(105)	nvS2LoBxTSp	Input (passive) - default	Second press cancels override	60	Sys 2 Low Box Temp Alarm Setpoint	AV	s_2_lo_bx_t_sp	Present Value	°F	30	hc_std_4_sys_rev_002.equipment
59	SWT_temp_p(105)	nvS2BxTSp	Input (passive) - default	Second press cancels override	60	Sys 2 Box Temp Setpoint	AV	s_2_bx_t_sp	Present Value	°F	35	hc_std_4_sys_rev_002.equipment
60	SWT_switch(95)	nvBcnWrEn	Input (passive) - default	Value	60							hc_std_4_sys_rev_002.equipment
60	SWT_switch(95)	nvBcnWrEn	Input (passive) - default	State	60	Beacon Write Enable	BV	bcn_wr_en	Present Value		0	hc_std_4_sys_rev_002.equipment

Note: Priority and Acknowledge parameters for all items in the table are 'FALSE'.

NOTES

This guide is designed to provide only general information. If you need advice about a particular product application or installation, you should consult your Heatcraft or Kysor Warren representative. The applicable specification sheets, data sheets, handbooks, and instructions for Heatcraft or Kysor Warren products should be consulted for information about that product, including, without limitation, information regarding the design, installation, maintenance, care, warnings relating to, and proper uses of each product.

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