Modbus Table register HomEvap products

The HomEvap is equiped with the option to be controlled via modbus / bacnet protocols. The connection is made using connector Tb1 on the Main PCB. As shown in wiring diagram. It is an RS485 connection. underneath you will find the appropiate register number and default if present. There is a lot possible with the modbus or bacnet contr ol, we asume that you have your own humidity or temperature sensors and setpoints of humidity and temperature in your BMS/ DOmotica control system. The values always needed are listed below in *ITALIC, it concerns, start stop of unit from external source, reset of service timer and general alarms. actual duct humidity and temperature reading, setpoint of duct temperature and n^k...*

**Enable modbus : put dipswitch on main pcb DS2.8 (HEX value Modbus) to ON. Add per unit an unique address using 2.1 to 2.7. for each unit in a chain. exampl: 2 unit in one chain = ds2.1- on and ds2.8-on is first adress, second unit; ds2.1-off, ds2.2- on and ds2.8 on is second adress etc. Function : 03 Read Holding Register, 06 Write Single Register, 16 Write multiple registers

Error Code : 02 illegal data address, 03 illegal value, 06 Slave device busy

Default Add : 01 (dipswitch 0-255, modbus valid range 1-247)

Default Baud Rate : AutoBaud (9600, 19200, 38400, 57600)

Default Port Configuration : 8 bits data, no parity, 2 stop bits.

W? : Writable register? w: writable, cx: writable under specific conditions, blank: read only.

No Real number in modbus register, use factor to calculate real number. Register = Real number * Factor => Real number = Register / Factor. Factor could be 1, 10 or 100

Attention when writing a register that contain a bit string, if this one is writable (conditional or not) the write will be always accepted but bit that are reserved or not writable will be ignored and will keep their actual state. Use READ-MODIFY-WRITE sequence.

Regis	ster	Nome	WO	Description	Notae	not Ohioo	et Object		
DEC	HEX	- Name	VV :		Notes	shet Object	L.	min	max
	0 0	Address	c1	Device neptronic ID and Modbus address of current device	MB=110; LB=1-247				
	11	BaudRate	w	BaudRate of device/100	Type:Unsigned, Factor: 0.01, No unit, 9600, 19200, 38400, 57600 Writing 0 will enable Auto Baud, anything else will set a manual baudrate. Reading will always return the actual baudrate.				
	22	Port Config	w	communication port configuration	0= No parity, 2 Stop bits 1= Even parity, 1 stop bit 2= Odd parity, 1 stop bit				
	3 3	ProdName_87	w	Characters 8-7 of 8 name characters.	ASCII caracters : MB Name[7]; LB Name[6]	OBJECT_N/	AME		
	4 4	ProdName_65	w	Characters 6-5 of 8 name characters.	ASCII caracters : MB Name[5]; LB Name[4]	OBJECT_N/	AME		
	5 5	ProdName_43	w	Characters 4-3 of 8 name characters.	ASCII caracters : MB Name[3]; LB Name[2]	OBJECT_N/	AME		
	6 6	ProdName_21	w	Characters 2-1 of 8 name characters.	ASCII caracters : MB Name[1]; LB Name[0]	OBJECT_N/	AME		
	7 7	Product_Version		Firmware version	Actually 112	FIRMWARE	E_REVISION		
	8 8	Param_Version		Parameters version		APPLICATIO	ON_SOFTW/	ARE_VERSIO	N
	99	System_status1		16 Flags of status	*see table below		<u> </u>		
1	0 A	System_status2		16 Flags of status	*see table below		<u> </u>		
1	1 B	System_status3		16 Flags of status	*see table below				
1	2 C	System_status4		16 Flags of status	*see table below				
1	3 D	LocalRoomHumidity		Al1 Room humidity SHC80 %RH	Type: Unsigned, Factor: 10, Unit: %RH, 0 to 100 %RH	AI.1			
1	4 E	LocalRoomTemperature		Al2 Room temperature SHC80 ºC	Type: Unsigned, Factor: 10, Unit: °C, 0 to 100 °C	AI.2			
1.	5 F	LocalDuctHumidity		AI3 Duct humidity SHC80 %RH	Type: Unsigned, Factor: 10, Unit: %RH, 0 to 100 %RH	AI.3			
1	5 10	LocalDuctTemperature		Al4 Duct temperature SHC80 ºC	Type: Unsigned, Factor: 10, Unit: ºC, 0 to 100 ºC	AI.4			
1	7 11	T2_Temperature		AI5 T2 temperature RTD ^Q C	Type: Unsigned, Factor: 10, Unit: °C, 0 to 50 °C	AI.5			
1	8 12	T3_Temperature		AI6 T3 temperature RTD ^o C	Type: Unsigned, Factor: 10, Unit: ºC, 0 to 50 ºC	AI.6			
1	9 13	AirFlowSwitchInput		BI1 input status	Type: Unsigned, Factor: 1, Unit: No unit, 0: OPEN, 1:CLOSE	BI.1	0		
2	0 14	EnableUserInput		BI2 input status	Type: Unsigned, Factor: 1, Unit: No unit, 0: OPEN, 1:CLOSE	BI.2	1		
2	1 15	EnableMainInput		BI3 input status	Type: Unsigned, Factor: 1, Unit: No unit, 0: OPEN, 1:CLOSE	BI.3	1		
2	3 17	CoolInput		BI5 input status	Type: Unsigned, Factor: 1, Unit: No unit, 0: OPEN, 1:CLOSE	BI.5	0		
2	4 18	FanInput		BI6 input status	Type: Unsigned, Factor: 1, Unit: No unit, 0: OPEN, 1:CLOSE	BI.6	0		
2	5 19	RH_HeatInput		BI7 input status	Type: Unsigned, Factor: 1. Unit: No unit. 0: OPEN, 1:CLOSE	BL7	C		

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12 5 Should A No None optication A Note Super Longer, Action Longer, Super Longer, Supe		26	1A	FanOutput		Fan Output status	Type: Unsigned, Factor: 10, Unit: %, 0 to 100%	AO.1			
12 15 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17<		27 :	1B	SSROutput		SSR Pulsing output status	Type: Unsigned, Factor: 10, Unit: %, 0 to 100%	AO.2			
Pa Pa Pa Pack Park Park Park Park Park Park Park Par		28	1C	TPM_Valve1		Valve 1 TPM output status	Type: Unsigned, Factor: 10, Unit: %, 0 to 100%	AO.3		1	
Image Image Amerikan State		29 :	1D	TPM_Valve2		Valve 2 TPM output status	Type: Unsigned, Factor: 10, Unit: %, 0 to 100%	AO.4			
Image Image <th< td=""><td></td><td>30 :</td><td>1E</td><td>Cfg_RoomTempSP_Min</td><td>w</td><td>Minimum room temperature setpoint</td><td>Type: Unsigned, Factor: 10, Unit: ºC, 7 to Cfg_RoomTempSP_Max (Reg#31)</td><td>AV.1</td><td>10</td><td>7</td><td>45</td></th<>		30 :	1E	Cfg_RoomTempSP_Min	w	Minimum room temperature setpoint	Type: Unsigned, Factor: 10, Unit: ºC, 7 to Cfg_RoomTempSP_Max (Reg#31)	AV.1	10	7	45
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		31	1F	Cfg_RoomTempSP_Max	w	Maximum room temperture setpoint	Type: Unsigned, Factor: 10, Unit: ^o C, Cfg_RoomTempSP_Min (Reg#30) to 40 ^o C	AV.2	45	10	50
18 2 Index codemand 1 Index coding PiD precubaged, factor 10, Units', S0 (p100% A14.6 No.		35	23	HeatingDemand		Heating PID	Type: Unsigned, Factor: 10, Unit: %, 0 to 100%	AV.9		0	100
Image bit is a strain of the constant of the c		39	27	IndCoolDemand		Indirect cooling PID	Type: Unsigned, Factor: 10, Unit: %, 0 to 100%	AV.14		0	100
Image: Note: Note: Spec: Spec: Asster: Note:		43	2B	DirCoolDemand		Direct cooling PID	Type: Unsigned, Factor: 10, Unit: %, 0 to 100%	AV.19		0	100
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII <th< td=""><td></td><td>44</td><td>2C</td><td>RoomTempSetPoint</td><td>w</td><td>Room temperature setpoint</td><td>Type: Signed, Factor: 10, Unit: ^oC, Cfg_RoomTempSP_Min (Reg#30) to Cfg_RoomTempSP_Max (Reg#31)</td><td>AV.20</td><td>19</td><td>1</td><td>45</td></th<>		44	2C	RoomTempSetPoint	w	Room temperature setpoint	Type: Signed, Factor: 10, Unit: ^o C, Cfg_RoomTempSP_Min (Reg#30) to Cfg_RoomTempSP_Max (Reg#31)	AV.20	19	1	45
16 25 C_{00} CoM_remplox w work meterature for OM sequence Type: Signed, Factor: 10, Unit: KC, Ci GL, OEM_rempledium AV.23 A12 A12 47 26 Cig_CoM_remplox w Medium temperature for OM sequence Type: Signed, Factor: 10, Unit: KC, Cig_CoM_rempledium to 50 °C Av.33 A25 A4 48 30 Cig_RoomHum/SP_Man w Minimum com humidity setpoint Type: Signed, Factor: 10, Unit: KC, Cig_CoM_Hum/SP_Man (RegetA7) Av.30 A25 A 59 27 Conchum/SP_Man (RegetA7) w Minimum com humidity setpoint Type: Unsigned, Factor: 10, Unit: KA1, Cig_RoomHum/SP_Man (RegetA7) Av.33 A0		45	2D	DuctTempSetPoint	w	Duct temperature setpoint	Type: Signed, Factor: 10, Unit: ºC, 0 to 30 ºC	AV.21	18	1	50
4^2 2^6 C_6 <t< td=""><td></td><td>46</td><td>2E</td><td>Cfg_OEM_TempLow</td><td>w</td><td>Low temperature for OEM sequence</td><td>Type: Signed, Factor: 10, Unit: ^oC, 0 to Cfg_OEM_TempMedium</td><td>AV.23</td><td>12</td><td>0</td><td>49</td></t<>		46	2E	Cfg_OEM_TempLow	w	Low temperature for OEM sequence	Type: Signed, Factor: 10, Unit: ^o C, 0 to Cfg_OEM_TempMedium	AV.23	12	0	49
Image: A state Image:		47	2F	Cfg_OEM_TempMedium	w	Medium temperature for OEM sequence	Type: Signed, Factor: 10, Unit: ^o C, Cfg_OEM_TempLow to Cfg_OEM_TempHigh	AV.24	49	12	50
13° 12° <t< td=""><td>_</td><td>48 3</td><td>30</td><td>Cfg_OEM_TempHigh</td><td>w</td><td>High temperature for OEM sequence</td><td>Type: Signed, Factor: 10, Unit: ^oC, Cfg_OEM_TempMedium to 50 ^oC</td><td>AV.25</td><td>49</td><td>49</td><td>50</td></t<>	_	48 3	30	Cfg_OEM_TempHigh	w	High temperature for OEM sequence	Type: Signed, Factor: 10, Unit: ^o C, Cfg_OEM_TempMedium to 50 ^o C	AV.25	49	49	50
9 2 Cg, RoomHum2P, Max w Maximum non humidity sepoint Type: Unsigned, Factor: 10, Unit: SMH, Cg, RoomHumSP, Mn (Regida() to Cfg, RoomHumSP, Max (Regida() t		49 3	31	Cfg_RoomHumSP_Min	w	Minimum room humidity setpoint	Type: Unsigned, Factor: 10, Unit: %RH, 10%RH to Cfg_RoomHumSP_Max (Reg#47)	AV.30	25	5	85
9696900m humid/SetPoint $_{\rm W}$ Room humid/setpointType: Unsigned, Factor: 10, Unit: %HI, Gr_RoomHumSP_Min (Regrafs) to Cr_RoomHumSP_Max (Regraf) λ :34.505.09.005638Mumid/Demand $_{\rm W}$ Docthumid/SetPoint λ :30.09.000.000.005638Mumid/DemandMumid/DemandMumid/Demand $_{\rm Pe: Unsigned, Factor: 10, Unit: %HI is 050%AH0.00%0.000.000.000.00662Valve1Cyclecourt0Valve 1cycle courtType: Unsigned, Factor: 1, Unit: No unit, 0to 04294672950.43.00.00.00.056642Valve2Cyclecourt0Valve 2cycle court maximuType: Unsigned, Factor: 1, Unit: No unit, 0to 04294672950.05.00.00.057443G.g.serviceIntervalwN Intreshol for no water alarmType: Unsigned, Factor: 1, Unit: No unit, 0to 04294672950.000.00.00.07443J.g.serviceIntervalwN Intreshol for no water alarmType: Unsigned, Factor: 1, Unit: No unit, 0to 04294672950.00.00.00.00.07555System Option2wN Intreshol for no water alarmType: Unsigned, Factor: 1, Unit: No unit, 0to 04294672950.00.00.00.00.00.07655System Option2wN Intreshol for no water alarmType: Unsigned, Factor: 1, Unit: No unit, Stat, 20 to 0.30.00.00.00.00.00.00.00.00.00.00$		50	32	Cfg_RoomHumSP_Max	w	Maximum room humidity setpoint	Type: Unsigned, Factor: 10, Unit: %RH, Cfg_RoomHumSP_Min (Reg#46) to 90%RH	AV.31	85	5	90
57 Duct humid/Section $_{10}$ Duct humidity septint Type: Unsigned, Factor: 10, Unit: SRH 5 to 90SRH AV.39 7.8 0.0 900 56 38 Humid/Demand 0 Multidy PID Type: Unsigned, Factor: 10, Unit: S0, to 100SK AV.40 Value Value <td></td> <td>54 3</td> <td>36</td> <td>RoomHumidifSetPoint</td> <td>w</td> <td>Room humidity setpoint</td> <td>Type: Unsigned, Factor: 10, Unit: %RH, Cfg_RoomHumSP_Min (Reg#46) to Cfg_RoomHumSP_Max (Reg#47)</td> <td>AV.38</td> <td>45,0</td> <td>5,0</td> <td>90,0</td>		54 3	36	RoomHumidifSetPoint	w	Room humidity setpoint	Type: Unsigned, Factor: 10, Unit: %RH, Cfg_RoomHumSP_Min (Reg#46) to Cfg_RoomHumSP_Max (Reg#47)	AV.38	45,0	5,0	90,0
bit Bit Humidteemand Humidteemand Humidteemand Public Type: Unsigned, Factor: 10, Unit: %, 0 to 100% Av.40 \cdot 0.0 0.00 66 $3t$ Valve1 cyclecount Valve 1 cycle count Type: Unsigned, Factor: 1, Unit: No unit, 0 to 4294967295 Av.53 $V< 0.0 0.05 66 42 Valve2 cyclecount Valve 2 cycle count maimum Type: Unsigned, Factor: 1, Unit: No unit, 00000 Av.500 Av.53 V< V V $		55	37	DuctHumidifSetPoint	w	Duct humidity setpoint	Type: Unsigned, Factor: 10, Unit: %RH 5 to 90%RH	AV.39	78	0,0	90,0
62 2i ValueQuecount Value Que count Type: Unsigned, Factor: 1, Unit: No unit, 0 to 4294967295 AN.53 M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M <td></td> <td>56 3</td> <td>38</td> <td>HumidifDemand</td> <td></td> <td>Humidity PID</td> <td>Type: Unsigned, Factor: 10, Unit: %, 0 to 100%</td> <td>AV.40</td> <td>-</td> <td>0,0</td> <td>100,0</td>		56 3	38	HumidifDemand		Humidity PID	Type: Unsigned, Factor: 10, Unit: %, 0 to 100%	AV.40	-	0,0	100,0
66 2 $Valve 2 cycle countValve 2 cycle count count cycle count count cycle count$		62	3E	Valve1CycleCount		Valve 1 cycle count	Type: Unsigned, Factor: 1, Unit: No unit, 0 to 4294967295	AV.53		0	65535
67 43 (g_{2} -swice/interval w_{1} Value service cycle count maximum Type: Unsigned, Factor: 1, Unit: No unit, 5000 to 30000 Al.58 1500 0 6555 72 48 A_LextThium w_{1} R himit condition for no water alarm in direct cooling mode Type: Unsigned, Factor: 10, Unit: SRH, 40SRH to 95 SRH. Al.89 8.6 300 0.6 6555 81 51 A_Inhtreshold w R himit condition for no water alarm in direct cooling mode Type: Unsigned, Factor: 10, Unit: SRH, 40SRH to 95 SRH. Al.89 8.6 8.0 6.0 6.5 9.5 83 System command w R himit condition for no water alarm Size table below Size table below Al.99 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.		66 4	42	Valve2CycleCount		Valve 2 cycle count	Type: Unsigned, Factor: 1, Unit: No unit, 0 to 4294967295	AV.57		0	65535
72 48 A_L DuctRhLimit w Rh limit condition for no water alarm in direct cooling modeType: Unsigned, Factor: 10, Unit: %RH, 40%RH to 95 %RH $AV.89$ 85 30 90 81 51 A_L RhThreshold w Rh Threshold for no water alarmType: Unsigned, Factor: 10, Unit: %RH, 20 to 70 %RH $AV.98$ 50.0 0.00 90 83 53 System command w I for gas of commands*see table below 55 55 System Option1I for Jags of options*see table below 55 55 System Option2I for Jags of options*see table below 55 55 System Option3I for Jags of options*see table below 55 55 55 System Option3I for Jags of options*see table below 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55	L	67	43	Cfg_ServiceInterval	w	Valve service cycle count maximum	Type: Unsigned, Factor: 1, Unit: No unit, 5000 to 30000	AV.58	15000	0	65535
R1 A_RhThreshold w Rh Threshold for no water alarm Type: Unsigned, Factor: 10, Unit: %RH, 20 to 70 %RH Av.98 50. 60. 90. R3 S3 System command w If flags of commands *see table below *see table below Image: Command See table below		72	48	Al_DuctRhLimit	w	Rh limit condition for no water alarm in direct cooling mode	Type: Unsigned, Factor: 10, Unit: %RH, 40%RH to 95 %RH	AV.89	85	30	95
8353System command $_{W}$ 16 flags of commands*see table belowforforforforfor8454System Option1616 Flags of options*see table belowsee table belowforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforforfor <t< td=""><td></td><td>81 !</td><td>51</td><td>Al_RhThreshold</td><td>w</td><td>Rh Threshold for no water alarm</td><td>Type: Unsigned, Factor: 10, Unit: %RH, 20 to 70 %RH</td><td>AV.98</td><td>50,0</td><td>0,0</td><td>90,0</td></t<>		81 !	51	Al_RhThreshold	w	Rh Threshold for no water alarm	Type: Unsigned, Factor: 10, Unit: %RH, 20 to 70 %RH	AV.98	50,0	0,0	90,0
84 54 System Option1 16 Flags of options *see table below Image: Comparison of the com		83 5	53	System command	w	16 flags of commands	*see table below				
85 System Option2 16 Flags of options *see table below Image: Comparison Image: Comparison </td <td></td> <td>84 5</td> <td>54</td> <td>System Option1</td> <td></td> <td>16 Flags of options</td> <td>*see table below</td> <td></td> <td></td> <td> </td> <td></td>		84 5	54	System Option1		16 Flags of options	*see table below				
86 50 System Option3 16 Flags of options *see table below Image: Comparison of the com		85 5	55	System Option2		16 Flags of options	*see table below				
87 System Option4 16 Flags of options *see table below *see table below Model Model <td< td=""><td></td><td>86 !</td><td>56</td><td>System Option3</td><td></td><td>16 Flags of options</td><td>*see table below</td><td></td><td></td><td> </td><td></td></td<>		86 !	56	System Option3		16 Flags of options	*see table below				
88 58 System Mode W Control System mode Type: Unsigned, Factor: 1, Unit: No unit, 1: Auto, 2: Hum, 3: Cool, 4: Off MSV.5 MSV.		87 5	57	System Option4		16 Flags of options	*see table below				
111 [67] T2 Cooling setPoint w T2 Cooling setpoint Type: Signed, Factor: 10, Unit: %C, 5 to 30 °C (available in version 1.12 and above) AV.22 14 5 110 74 External Demand a external demand 0-10v., if ai7 input is active 1.3= 30%, 3-6 = 60%, 6-10v. Type: Unsigned Factor: 10 Unit: % Range: 0.0-100.0 AI.7 AI.		88	58	SystemMode	w	Control System mode	Type: Unsigned, Factor: 1, Unit: No unit, 1: Auto, 2: Hum, 3: Cool, 4: Off	MSV.5			
110 120 Extend Demand Extend Demand OF 00, and input is active 15-500, 50-000.0 Type: Unsigned Factor: 10 Unit: % Range: 0.0-100.0 AI.7 AI.7 AI.7 111 75 Resrved A AI.7 AI.8 AI.7 AI.7 111 74 AI.7		111	6F 74	T2CoolingSetPoint	w	T2 Cooling setpoint	Type: Signed, Factor: 10, Unit: ^o C, 5 to 30 ^o C (available in version 1.12 and above)	AV.22	14	5	30
117 75 Reserved Al.8 Image: Constraint of the second secon		110	/ 4	External Demand		10v=100% Voor av9 and av40,av19.	Type: Unsigned Factor: 10 Unit: % Range: 0.0-100.0	AI.7			
		117	75	Reserved				AI.8			
	┢				<u> </u>						

Regis DEC	ter HEX	Name	bit	Description	Notes	net Object
9	9	System_status1	b0	Reserved	Reserved	
			b1	Reserved	Reserved	
			b2	Reserved	Reserved	
			b3	Reserved	Reserved	
			b4	Reserved	Reserved	
			b5	Reserved	Reserved	
			b6	Reserved	Reserved	
			b7	Reserved	Reserved	
			b8	Reserved	Reserved	

			hq	Reserved	Reserved	
			b1() System OFF	0: On 1: OFF	
			b1	1 Pecerved	Deserved	
			b1	2 Received	neserved Deserved	
			b1		neserved Desenved	
			b1.		neserveu Di 12 concor connected, 1: 12 concor disconnected	
			b1	F Duet Concer status	0. 13 Sensor connected, 1: 13 sensor disconnected	DV/ 29
Deviate			01.		o. Datt sensor connected, 1. Datt sensor disconnected	DV.20
Registe		Name	bit	Description	Notes	net Object
DEC						
10/	A	System_statusz	DU		U: Duct Sensor, 1: Room Sensor	BV.1
			01	Temperature sensor Option	U: Duct Sensor, 1: Room Sensor	BV.2
			b2	Heater Option	0: Disable, 1: Enable	BV.3
			b3	Fan Option	0: Disable, 1: Enable	BV.4
			b4	OEM Option	0: Disable, 1: Enable	BV.5
			b5	Input Option	0: Disable, 1: Enable	BV.6
			b6	NO T2 SENSOR	0: T2 Heater sensor connected, 1: T2 Heater sensor disconnected	
			b7	NO ROOM SENSOR	0: T8 Room sensor connected, 1: T8 Room sensor disconnected	
			b8	Enable User	0: Disable, 1: Enable	BV.20
			b9	Enable Main	0: Disable, 1: Enable	BV.21
			b1(D Alarm Drain Blocked	0: Normal, 1: Alarm	BV.22
			b1	1 Alarm Airflow Switch	0: Normal, 1: Alarm	BV.23
			b1	2 Alarm No Airflow	0: Normal, 1: Alarm	BV.24
			h1	3 Alarm No Water	0. Normal 1. Alarm	BV 25
			b1/	4 Alarm Heater Default	C. Normal, 1: Alarm	BV 26
			b1	Service alarm	0. Normal, 1. Alarm	BV 27
Pogisto			51.	Description	o. Normal, 1. Alarm	54.27
DEC I	HEX	Name	bit	Description	Notes	net Object
11	В	System_status3	bC	ss2_EXT_DEMAND	0: Disable, 1: Enable	BV.7
			b1	ss2_ROOM_SENSOR_DETECTED	0: Disable, 1: Enable	
			b2	ss2 DUCT SENSOR DETECTED	0: Disable, 1: Enable	
			b3	ss2 T2 SENSOR DETECTED	0: Disable, 1: Enable	
			b4	Reserved	Reserved	
			b5	Wireless device communication error	0: Normal. 1: Alarm	BV.101
			hf	Reserved	Reserved	-
			b7	Reserved	Reserved	
			b8	Reserved	Reserved	
			h	Deserved	Descried	
			b1/		neserveu	DV 22
			61		G. Normal, 1. Alarm	DV.32
			01.		U. Normal, 1. Alarm	BV.31
			01.		U. NUTITAI, 1: AIATTI	DV.33
\vdash			b1	SISSZIAL KEIDEF	U: Normai, 1: Alarm	BV.34
			b14	4 SSZ_AL_IZDEF	U: Normai, 1: Alarm	BV.35
			b1.	5 ss2_AL_SUPPLYDEF	0: Normal, 1: Alarm	BV.28
Registe DEC	er HEX	Name	bit	Description	Notes	net Object
12	С	Svstem status4	h	Reserved	Reserved	
			h1	Reserved	Reserved	
			b2	Reserved	Resourced	
			b2	Received	neserved	
			03 64	Deconied	Decented	
			04	Preserved	Reserved	
			20			
			b6	Keservea	Keservea	
			b7	Reserved	Reserved	
1			b7 b8	Reserved Reserved	Reserved Reserved	
			b7 b8 b9	Reserved Reserved Reserved	Reserved Reserved Reserved	
			b7 b8 b9 b10	Reserved Reserved Reserved Preserved	Reserved Reserved Reserved Reserved	
			b7 b8 b9 b10 b11	Reserved Reserved Reserved 1 Reserved 1 Reserved	Reserved Reserved Reserved Reserved Reserved Reserved	
			b7 b8 b9 b10 b11 b11	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved	
			b7 b8 b1 b1 b1 b1	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved	

b14 Reserved	Reserved
b15 Reserved	Reserved

Register Name	bit	Notes	net Object
83 53 System command	b0 Reserved	Reserved	
	b1 Clear Service Alarm	0: No, 1: Yes	BV.29
	b2 Clear System Alarm	0: No, 1: Yes	BV.30
	b3 Reserved	Reserved	
	b4 Reserved	Reserved	
	b5 Reserved	Reserved	
	b6 Reserved	Reserved	
	b7 Reserved	Reserved	
	b8 Reserved	Reserved	
	b9 Reserved	Reserved	
	b10 Reserved	Reserved	
	b11 Reserved	Reserved	
	b12 Reserved	Reserved	
	b13 Reserved	Reserved	
	b14 Reserved	Reserved	
	b15 Reserved	Reserved	

Register DEC HEX	- Name	bit	Description	Notes	net Object
84 54	System Option1	b0	Reserved	Reserved	
		b1	Reserved	Reserved	Ī
		b2	Reserved	Reserved	1
		b3	Reserved	Reserved	
		b4	Reserved	Reserved	
		b5	Reserved	Reserved	
		b6	Reserved	Reserved	
		b7	Reserved	Reserved	
		b8	Reserved	Reserved	
		b9	Reserved	Reserved	
		b10	Reserved	Reserved	
		b11	Reserved	Reserved	
		b12	Reserved	Reserved	
		b13	Reserved	Reserved	
		b14	Reserved	Reserved	ļ
		b15	Reserved	Reserved	1
Register DEC HEX	- Name	bit	Description	Notes	net Object
85 55	Custom Outland	1.0	Reserved	Percented	
00 00	System Option2	00	Incocived	neseiveu	
00 00	System Option2	b0 b1	Reserved	Reserved	
		b0 b1 b2	Reserved so_AUTOBAUD_MODE	Reserved 0 : Disabled 1 : Enabled	
		b0 b1 b2 b3	Reserved Reserved Reserved Reserved Reserved	Reserved O : Disabled 1 : Enabled Reserved	
	System Uption2	b0 b1 b2 b3 b4	Reserved so_AUTOBAUD_MODE Reserved Reserved	Reserved Reserved 0 : Disabled 1 : Enabled Reserved Reserved Reserved	
	System Uption2	b0 b1 b2 b3 b4 b5	Reserved so_AUTOBAUD_MODE Reserved Reserved Reserved	Reserved Reserved 0 : Disabled 1 : Enabled Reserved Reserved Reserved	
	System Uption2	b0 b1 b2 b3 b4 b5 b6	Reserved so_AUTOBAUD_MODE Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	
	System Uption2	b0 b1 b2 b3 b4 b5 b6 b7	Reserved so_AUTOBAUD_MODE Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	
	System Uption2	b0 b1 b2 b3 b4 b5 b6 b7 b8	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	
	System Uption2	b0 b1 b2 b3 b4 b5 b6 b7 b8 b9	Reserved so_AUTOBAUD_MODE Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved O : Disabled 1 : Enabled Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	
	System Uption2	b0 b1 b2 b3 b4 b5 b6 b7 b8 b9 b10	Reserved so_AUTOBAUD_MODE Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	
	System Uption2	b0 b1 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11	Reserved so_AUTOBAUD_MODE Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved 0 : Disabled 1 : Enabled Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	
	System Uption2	b0 b1 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11 b12	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	
	System Uption2	b0 b1 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11 b12 b13	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	
	System Uption2	b0 b1 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11 b12 b13 b14	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	
	system Uption2	b0 b1 b2 b3 b4 b5 b6 b7 b8 b10 b11 b11 b12 b13 b14 b15	Reserved so_AUTOBAUD_MODE Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	

DEC	HEX	Hame	DIL		111153	net Object
86	56	System Option3	b0	Reserved	Reserved	
		•	b1	Reserved	Reserved	
			b2	Reserved	Reserved	
			b3	Reserved	Reserved	
			b4	Reserved	Reserved	
			b5	Reserved	Reserved	
			b6	Reserved	Reserved	
			b7	Reserved	Reserved	
			b8	Reserved	Reserved	
			b9	Reserved	Reserved	
			b10	Reserved	Reserved	
			b11	Reserved	Reserved	
			b12	Reserved	Reserved	
			b13	Reserved	Reserved	
			b14	Reserved	Reserved	
			b15	Reserved	Reserved	
Deviate				Description		
Registe	51	Name	bit	Description	Notes	net Object
DEC	HEX	Name	bit	Compton	Notes	net Object
DEC 87	HEX 57	Name System Option4	bit b0	Reserved	Notes	net Object
DEC 87	HEX 57	Name System Option4	bit b0 b1	Reserved Reserved	Notes Reserved Reserved Reserved	net Object
DEC 87	HEX 57	Name System Option4	bit b0 b1 b2	Reserved Reserved Reserved	Notes Reserved Reserved Reserved Reserved	net Object
DEC 87	HEX	Name System Option4	bit b0 b1 b2 b3	Reserved Reserved Reserved Reserved	Notes Reserved Reserved Reserved Reserved Reserved Reserved	net Object
DEC 87	HEX 57	Name System Option4	bit b0 b1 b2 b3 b4	Reserved Reserved Reserved Reserved Reserved	Notes Reserved Reserved Reserved Reserved Reserved Reserved Reserved	net Object
DEC 87	57	Name System Option4	bit b0 b1 b2 b3 b4 b5	Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Notes Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	net Object
Negiste	57	Name System Option4	bit b0 b1 b2 b3 b4 b5 b6	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Notes Reserved	net Object
Registe DEC 87	57	Name System Option4	bit b0 b1 b2 b3 b4 b5 b6 b7	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Notes Reserved	net Object
Register DEC 87	57	Name System Option4	bit b0 b1 b2 b3 b4 b5 b6 b7 b8	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Notes Reserved	net Object
87	57	Name System Option4	bit b0 b1 b2 b3 b4 b5 b6 b7 b8 b9	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Notes Reserved	net Object
	57	Name System Option4	bit b0 b1 b2 b3 b4 b5 b6 b7 b8 b9 b10	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Notes Reserved	net Object
	57 57	Name System Option4	bit b0 b1 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Notes Reserved R	net Object
	57 57	Name System Option4	bit b0 b1 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11 b12	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Notes Reserved R	net Object
	57 57	Name System Option4	bit b0 b1 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11 b12 b13	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Notes Reserved R	net Object
	57 57	Name System Option4	bit b0 b1 b2 b3 b3 b4 b5 b5 b6 b7 b8 b9 b10 b11 b11 b12 b13 b14	Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved	Notes Reserved	net Object