DATE



#### **ECG CARRIER S.A.**

# **CONFIGURATION MANUAL**

TITLE: DEFAULT JBUS MEMORY MAPPING FOR LEI **GATEWAY** 

> REV: C 08/29/07

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	REVISION OF CHANGES						
REV LETTER	DESCRIPTION OF CHANGES	RELEASE DATE					
С	Revision C	08/29/07					
	Add JBus Memory Mapping – 50AZ & 50UZ Default Configuration						
В	Revision B	07/06/06					
	<ul> <li>Modify mame of array for 30XA &amp; XQ</li> <li>Modify alarms description of 30RB and 30XA</li> </ul>						
Α	Revision A	08/30/05					
	<ul> <li>Add Jbus memory mapping – System Manager NTC Default Configuration.</li> <li>Modify the number of Jbus registers</li> <li>Add Jbus connections</li> <li>Add Jbus memory mapping – 30XA &amp; 30XQ Default Configuration.</li> </ul>						
	Original Release	06/29/05					

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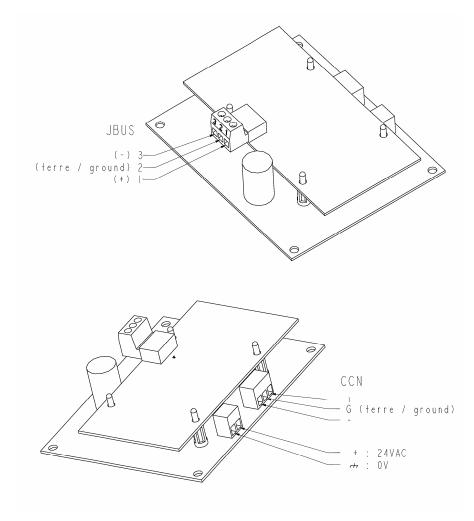
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# 1 - JBUS Connections

Figure 2 CCN/JBUS Gateway Connections



On this plan, the LEI board is plugged to its base board that provides supply and CCN connections.

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## 2 - JBUS Functions

#### **COMMUNICATION PARAMETERS**

The JBUS communication bus, which uses RS-485 signalling, operates at 300, 600, 1200, 2400, 4800 or 9600 bits per second. It typically operates at 9600 bauds. The Gateway JBUS slave address can take any value between 1 and 255. The default JBUS Gateway address is 1. The JBUS operating rate and the JBUS address can be modified through the JBUS network.

To modify the JBUS communication parameters through the JBUS port:

Operate a write command on register 133[h88] for modifying the JBUS baud rate.

300 bauds [h12C]
600 bauds [h258]
1200 bauds [h4B0]
2400 bauds [h960]
4800 bauds [h12C0]

9600 bauds [h2580] (default value)

Operate a write command on register 134 [h8C] for modifying the JBUS address

• Value between 1 [h1] and 255 [hFF] (default value = 1)

Note: if an incorrect address or an incorrect baud rate are entered, they will be rejected and the Gateway will use the default values.

Maximum response time to complete a JBUS transaction: 700 ms (time out).

#### **JBUS FRAME**

#### General

All communications on the JBUS port are done in the Remote Terminal Unit (RTU) mode.

Data have the following frame (binary):

- 8 data bits
- 1 stop bit
- no parity

### Reading

Format of data received by the JBUS off-network from the Gateway depends on the CCN Point Type.

- An integer point will be received as 2 bytes unsigned by the JBUS off-network.
- A float point will be received as 2 bytes signed by the JBUS off-network. This data must be divided by 10 when received by the off-network. If negative, it must be two's complemented.

Note: all values received by the JBUS off-network are in metric units.

#### Writing

Format of data sent (writing JBUS command) by the JBUS off-network to the Gateway depends on the Point Type.

- Integer point must be sent as 2 bytes unsigned by the JBUS off-network.
- Float point must be sent as 2 bytes signed by the JBUS off-network. This data must be multiplied by 10 before being sent to the Gateway. If negative, it must be two's complemented.

Note: all values sent by the JBUS off-network to the Gateway must be in metric units.

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#### **JBUS COMMANDS**

The following JBUS commands are available:

Function 1 or 2
Reading of 1 to 1024 bits in the range 0 to 1824
Function 3 or 4
Reading of 1 to 114 registers in the range 0 to 7771

Function 5 : Writing of 1 bit in the range 1392 to 1824
Function 6 : Writing of 1 register in the range 91 to 135
Function 15 : Writing of 1 to 432 bits in the range 1392 to 1824
Function 16 : Writing of 1 to 27 registers in the range 91 to 137.

#### **JBUS AUTO CONFIGURATION**

The auto configuration sequence is launched automatically when the board is not configured. By default the board try to read the configuration parameters of the device attached at CCN address (0,1). The board will reboot as long as it as not been able to communicate with the device (0,1).

The CCN address of the device to attach can be changed by writing Jbus registers 136 and 137 (device bus nb and element nb). When theses registers have been written, the auto configuration sequence is launched again.

**Warning**: writing the jbus register may require many tries if the board tries to attach to an unexisting device at address (0,1). Actually the board will reboot trying to communicate with device (0,1).

#### **JBUS MEMORY MAPPING**

The Gateway uses 7772 registers of 2 bytes each for its exchange of data with a JBUS off-network. Since all address references in a JBUS message are numbered relative to 0, register are numbered from 0 to 7771.

Table below provides the registers allocation.

[] : numbers in brackets provide hexadecimal value

: doesn't apply to this register type

\*\* : 2 bytes

\*\*\* : Unit must be under CCN operating type control otherwise writing command will be ignored



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# 3 - JBus Memory Mapping - General

This allocation table provides the JBUS address of all registers accessible through JBUS commands.

R : Read W : Write

\* : doesn't apply to this register type

: numbers in brackets provide hexadecimal value

Point/Table: Gateway point and table where configuration must be done for this register to be active

REGISTER NUMBER/ADDRESS	REGISTER LSB ADDRESS	JBUS ACCESS	POINT/TABLE	DESCRIPTION	REMARKS
0 [h00]	8 [h8]	R	rp r 0 / RPOINT1	Collect Point #1	These registers provide the
1 [h01]	24 [h18]	R	Rp_r_1 / RPOINT1	Collect Point #2	value of points that have
2 [h02]	40 [h28]	R	rp r 2 / RPOINT1	Collect Point #3	been configured (tables
3 [h03]	56 [h38]	R	rp r 3 / RPOINT1	Collect Point #4	RPOINT1, RPOINT2,
4 [h04]	72 [h48]	R	rp r 4 / RPOINT1	Collect Point #5	RPOINT3 and RPOINT4) to
• • •		R	rp r 5 / RPOINT1	Collect Point #6	be collected from the
5 [h05]	88 [h58]	R			interfaced controller.
6 [h06]	104 [h68]	R	rp_r_6 / RPOINT1	Collect Point #7 Collect Point #8	
7 [h07]	120 [h78]		rp_r_7 / RPOINT1		Registers are set to 0 when
8 [h08]	136 [h88]	R	rp_r_8 / RPOINT1	Collect Point #9	unused.
9 [h09]	152 [h98]	R	rp_r_9 / RPOINT1	Collect Point #10	
10 [h0A]	168 [hA8]	R	rp_r_10 / RPOINT2	Collect Point #11	
11 [h0B]	184 [hB8]	R	rp_r_11 / RPOINT2	Collect Point #12	
12 [h0C]	200 [hC8]	R	rp_r_12 / RPOINT2	Collect Point #13	
13 [h0D]	216 [hD8]	R	rp_r_13 / RPOINT2	Collect Point #14	
14 [h0E]	232 [hE8]	R	rp_r_14 / RPOINT2	Collect Point #15	
15 [h0F]	248 [hF8]	R	rp_r_15 / RPOINT2	Collect Point #16	
16 [h10]	264 [h108]	R	rp_r_16 / RPOINT2	Collect Point #17	
17 [h11]	280 [h118]	R	rp_r_17 / RPOINT2	Collect Point #18	
18 [h12]	296 [h128]	R	rp_r_18 / RPOINT2	Collect Point #19	
19 [h13]	312 [h138]	R	rp_r_19 / RPOINT2	Collect Point #20	
20 [h14]	328 [h148]	R	rp_r_20 / RPOINT3	Collect Point #21	
21 [h15]	344 [h158]	R	rp_r_21 / RPOINT3	Collect Point #22	
22 [h16]	360 [h168]	R	rp_r_22 / RPOINT3	Collect Point #23	
23 [h17]	376 [h178]	R	rp_r_23 / RPOINT3	Collect Point #24	
24 [h18]	392 [h188]	R	rp_r_24 / RPOINT3	Collect Point #25	
25 [h19]	408 [h198]	R	rp_r_25 / RPOINT3	Collect Point #26	
26 [h1A]	424 [h1A8]	R	rp_r_26 / RPOINT3	Collect Point #27	
27 [h1B]	440 [h1B8]	R	rp_r_27 / RPOINT3	Collect Point #28	
28 [h1C]	456 [h1C8]	R	rp r 28 / RPOINT3	Collect Point #29	
29 [h1D]	472 [h1D8]	R	rp r 29 / RPOINT3	Collect Point #30	
30 [h1E]	488 [h1E8]	R	rp r 30 / RPOINT4	Collect Point #31	
31 [h1F]	504 [h1F8]	R	rp_r_31 / RPOINT4	Collect Point #32	
32 [h20]	520 [h208]	R	rp r 32 / RPOINT4	Collect Point #33	
33 [h21]	536 [h218]	R	rp_r_33 / RPOINT4	Collect Point #34	
34 [h22]	552 [h228]	R	rp r 34 / RPOINT4	Collect Point #35	
35 [h23]	568 [h238]	R	rp_r_35 / RPOINT4	Collect Point #36	
36 [h24]	584 [h248]	R	rp_r_36 / RPOINT4	Collect Point #37	1
37 [h25]	600 [h258]	R	rp_r_37 / RPOINT4	Collect Point #38	1
38 [h26]	616 [h268]	R	rp_r_38 / RPOINT4	Collect Point #39	1
39 [h27]	632 [h278]	R	rp r 39 / RPOINT4	Collect Point #40	
40 [h28]	*	R	1μ_1_00 / NFOIN14	Controller Active alarms	Total nb of active alarms.
	*				Provide the code of up to 5
41 [h29]		R		Current Alarm 1	



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REGISTER NUMBER/ADDRESS	REGISTER LSB ADDRESS	JBUS ACCESS	POINT/TABLE	DESCRIPTION	REMARKS
42 [h2A]	*	R		Current Alarm 2	active alarms collected from the controller
43 [h2B]	*	R		Current Alarm 3	interfaced by the Gateway.
44 [h2C]	*	R		Current Alarm 4	These are stored in arrival order. Used when alarm
45 [h2D]	*	R		Current Alarm 5	collection has been configured.
46 [h2E]	744 [h2E8]	R	ra_r_46 / R_ALARM	Alarm #1	Configured Alarms. The
47 [h2F]	760 [h2F8]	R	ra_r_47 / R_ALARM	Alarm #2	register is set to 1 when its
48 [h30]	776 [h308]	R	ra_r_48 / R_ALARM	Alarm #3	corresponding alarm is
49 [h31]	792 [h318]	R	ra_r_49 / R_ALARM	Alarm #4	active. If not, the register is
50 [h32]	808 [h328]	R	ra_r_50 / R_ALARM	Alarm #5	set to 0.
51 [h33]	824 [h338]	R	ra_r_51 / R_ALARM	Alarm #6	Linuage (not configured)
52 [h34]	840 [h348]	R	ra_r_52 / R_ALARM	Alarm #7	Unused (not configured)
53 [h35]	856 [h358]	R	ra_r_53 / R_ALARM	Alarm #8	registers are set to 0.
54 [h36]	872 [h368]	R	ra_r_54 / R_ALARM	Alarm #9	Used when alarm collection
55 [h37]	888 [h378]	R	ra_r_55 / R_ALARM	Alarm #10	has been configured.
56 [h38]	904 [h388]	R	ra_r_56 / R_ALARM	Alarm #11	nas been configured.
57 [h39]	920 [h398]	R	ra_r_57 / R_ALARM	Alarm #12	
58 [h3A]	936 [h3A8]	R	ra_r_58 / R_ALARM	Alarm #13	
59 [h3B]	952 [h3B8]	R	ra_r_59 / R_ALARM	Alarm #14	
60 [h3C]	968 [h3C8]	R	ra_r_60 / R_ALARM	Alarm #15	
61 [h3D]	*	R		Gateway Alarm Code	Gateway current alm code.
62 [h3E]	-	-		-	Unused
63 [h3F]	-	-		-	
64 [h40]	-	-		-	
65 [h41]	*	R	alm_tr_p/CCNCONF	Trigger Point Value	Value of alarm trigger.
66 [h42]	*	R		JBUS Alarm Number	Incorrect JBUS command.
67 [h43]	1080 [h438]	R		Setpoint #1 Update flag	This value is set to 1 when
68 [h44]	1096 [h448]	R		Setpoint #2 Update flag	a writing setpoint operation
69 [h45]	1112 [h458]	R		Setpoint #3 Update flag	is required by JBUS. When
70 [h46]	1128 [h468]	R		Setpoint #4 Update flag	the writing operation is
71 [h47]	1144 [h478]	R		Setpoint #5 Update flag	achieved this flag returns to
72 [h48]	1160 [h488]	R		Setpoint #6 Update flag	0.□
73 [h49]	1176 [h498]	R		Setpoint #7 Update flag	
74 [h4A]	1192 [h4B8]	R		Setpoint #8 Update flag	
75 [h4B]	1208 [h4B8]	R		Setpoint #9 Update flag	
76 [h4C]	1224 [h4A8]	R		Setpoint #10 Update flg	
77 [h4D]	1240 [h4B8]	R		Setpoint #11 Update flg	
78 [h4E]	1256 [h4C8]	R		Setpoint #12 Update flg	
79 [h4F]	*	R		Write setpoint #1 -Status	0 : Operation achieved
80 [h50]	*	R		Write setpoint #2 -Status	1 :Access denied
81 [h51]	*	R		Write setpoint #3 -Status	2 :CCN communication
82 [h52]	*	R		Write setpoint #4 -Status	failure
83 [h53]	*	R		Write setpoint #5 -Status	3 :Operation in progress
84 [h54]	*	R		Write setpoint #6 -Status	-1 :Illegal format
85 [h55]	*	R		Write setpoint #7 -Status	
86 [h56]	*	R		Write setpoint #8 -Status	
87 [h57]	*	R		Write setpoint #9 -Status	
88 [h58]	*	R		Write setpoint #10Status	
89 [h59]	*	R		Write setpoint #11Status	
90 [h5A]	*	R		Write setpoint #12Status	



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REGISTER NUMBER/ADDRESS	REGISTER LSB ADDRESS	JBUS ACCESS	POINT/TABLE	DESCRIPTION	REMARKS
91 [h5B]	*	R/W		Forcing Flag #1	This value is set to 1 when
92 [h5C]	*	R/W	Forcing Flag #2		a forcing operation is
93 [h5D]	*	R/W		Forcing Flag #3	required by JBUS. When
94 [h5E]	*	R/W		Forcing Flag #4	the forcing operation is
95 [h5F]	*	R/W		Forcing Flag #5	achieved this flag returns to
96 [h60]	*	R/W		Forcing Flag #6	0.
97 [h61]	*	R/W		Forcing Flag #7	This value must be set to 2
98 [h62]	*	R/W		Forcing Flag #8	when auto is required.
99 [h63]	*	R/W		Forcing Flag #9	
100 [h64]	*	R/W		Forcing Flag #10	
101 [h65]	*	R		Forcing/Auto #1 - Status	0: Operation achieved
102 [h66]	*	R		Forcing/Auto #2 - Status	1: Access denied
103 [h67]	*	R		Forcing/Auto #3 - Status	2: CCN communication
104 [h68]	*	R		Forcing/Auto #4 - Status	failure
105 [h69]	*	R		Forcing/Auto #5 - Status	3: Operation in progress
106 [h6A]	*	R		Forcing/Auto #6 - Status	-1: Illegal format
107 [h6B]	*	R		Forcing/Auto #7 - Status	
108 [h6C]	*	R		Forcing/Auto #8 - Status	
109 [h6D]	*	R		Forcing/Auto #9 - Status	
110 [h6E]	*	R		Forcing/Auto #10-Status	
TTO [HOL]		11		Torcing/Auto #10-Otatus	
111 [h6F]	*	R/W	wd_r_111	Setpoint value #1	Setpoints to be written into
112 [h70]	*	R/W	wd_r_112	Setpoint value #2	the CCN controller by the
113 [h71]	*	R/W	wd_r_113	Setpoint value #3	JBUS off-network.
114 [h72]	*	R/W	wd r 114	Setpoint value #4	
115 [h73]	*	R/W	wd_r_115	Setpoint value #5	Registers 79 to 90 provide
116 [h74]	*	R/W	wd r 116	Setpoint value #6	the status of the writing
117 [h75]	*	R/W	wd r 117	Setpoint value #7	operation.
118 [h76]	*	R/W	wd_r_118	Setpoint value #8	
119 [h77]	*	R/W	wd_r_119	Setpoint value #9	
120 [h78]	*	R/W	wd r 120	Setpoint value #10	
121 [h79]	*	R/W	wd_r_121	Setpoint value #11	
122 [h7A]	*	R/W	wd r 122	Setpoint value #12	
[]		1 7 7 7 7			
123 [h7B]	1720 [h6B8]	R/W	fv_r_123	Forced Value #1	Values to be forced into the
124 [h7C]	1736 [h6C8]	R/W	fv_r_124	Forced Value #2	CCN controller that must be
125 [h7D]	1752 [h6D8]	R/W	fv_r_125	Forced Value #3	written by the JBUS off-
126 [h7E]	1768 [h6E8]	R/W	fv_r_126	Forced Value #4	network.
127 [h7F]	1784 [h6F8]	R/W	fv_r_127	Forced Value #5	Registers 101 to 110
128 [h80]	1800 [h708]	R/W	fv_r_128	Forced Value #6	provide the status of
129 [h81]	1816 [h718]	R/W	fv_r_129	Forced Value #7	operation on forcing.
130 [h82]	1832 [h728]	R/W	fv_r_130	Forced Value #8	
131 [h83]	1848 [h738]	R/W	fv_r_131	Forced Value #9	
132 [h84]	1864 [h748]	R/W	fv_r_132	Forced Value #10	
	•	1			
133 [h85]	*	R/W	jbus_add/JBUSCONF	JBUS baud rate	Accessible from JBUS and
134 [h86]	*	R/W	jbus_bau/JBUSCONF	JBUS Address	CCN.
135 [h87]	*	R/W	jbus_par/JBUSCONF	JBUS parity and stop bit	
136 [h88]	*	R/W	dev_bus/CCNCONF	CCN device bus number	Modifying those registers
137 [h89]	*	R/W	dev_elem/CCNCONF	CCN device element nb	through JBUS, launch the
					auto configuration sequence

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REGISTER NUMBER/ADDRESS	REGISTER LSB ADDRESS	JBUS ACCESS	POINT/TABLE	DESCRIPTION	REMARKS
200 [C8h]	*	R	**	Instance collected point	
,	,	,	,		
,	1	,	1		
,	1	,	1		
4679 [1247h]	*	R	**	Instance collected point	
4680 [1248h]		R		Unused point	
4699 [125Bh]		R		Unused point	
4700 [125Ch]	*	R/W	lp_w_0 instance 1	Instance write value	
4701 [125Dh]	*	R/W	lp_w_0 instance 2	Instance write value	
•			•		
5722 [165Ah]	*	R/W	lp_w_7 instance 127	Instance write value	
5723 [165Bh]	*	R/W	lp_w_7 instance 128	Instance write value	
5724 [165Ch]	*	R	*	Instance writing flag	For ip_w_0 instance 1
	*		*		
	*		*		
6747 [1A5Bh]	*	R	*	Instance writing flag	For ip_w_7 instance 128
6748 [1A5Ch]	*	R	*	Instance writing status	For ip_w_0 instance 1
7771 [1E5Bh]	*	R	*	Instance writing status	For ip_w_7 instance 128

Note: At GW initialisation all registers are set to 0. During GW operations all unused registers are set to 0.

 $<sup>^{\</sup>star\star}$ : The points of registers 200 to 4679 are not fixed. The user can configure any the JBus address.

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# 4 - JBus Memory Mapping - 30RB & 30RQ Default Configuration

	JBUS N	MEMORY MAPPING – 30RB	&30RQ D	efault cor	nfiguration
REGISTER ADDRESS	JBUS ACCESS	CONTENT	TY	/PE	REMARK
712211200	7.00200		INT	FLOAT	
0 [h00]	R	Entering fluid temperature		Х	Read value must be divided by 10
1 [h01]	R	Leaving Fluid Temperature		X	Read value must be divided by 10
2 [h02]	R	Circuit A discharge Pressure		Х	Read value must be divided by 10
3 [h03]	R	Circuit B discharge Pressure		Х	Read value must be divided by 10
4 [h04]	R	Control Point		Х	Read value must be divided by 10
5 [h05]	R	Unit percent active capacity	Х		
6 [h06]	R	Demand limit	X		
7 [h07]	R	Chiller state	X		
8 [h08]	R	Alarm state	X		
9 [h09]	R	Heat cool select	X		0 = Cool, 1 = Heat 2 = Auto
10 [h0A]	R	Cooler pump 1 Status	X		
11 [h0B]	R R	Cooler pump 2 Status	X		
12 [h0C]	R	Machine operating hours	X	-	
13 [h0D] 14 [h0E]	R	Compressor A1 Hours Compressor A2 Hours	X		
14 [NOE] 15 [h0F]	R	Compressor A2 Hours  Compressor A3 Hours	X	1	
15 [NOF] 16 [h10]	R	Compressor A3 Hours  Compressor A4 Hours	X	1	
17 [h10]	R	Compressor B1 Hours	X		
18 [h10]	R	Compressor B2 Hours	X		
19 [h10]	R	Compressor B3 Hours	X		
20 [h10]	R	Compressor B4 Hours	X	<b>†</b>	
21 [h10]	R	Compressor C1 Hours	X		
22 [h10]	R	Compressor C2 Hours	X		
23 [h10]	R	Compressor C3 Hours	X		
24 [h10]	R	Compressor C4 Hours	X		
25 [h10]	R	Circuit C discharge Pressure	Х		
40 [h28]	R	Number of active alarm	Х		Provide the code of up to 5 active
41 [h29]	R	Active alarm 1	Х		alarms. These are stored in arrival
42 [h2A]	R	Active alarm 2	Х		order. Alarms read from
43 [h2B]	R	Active alarm 3	Х		CCN/JBUS are alarm index bur not
44 [h2C]	R	Active alarm 4	Х		alarms codes.
45 [h2D]	R	Active alarm 5	Х		
46 [h2E]	R	Status of alarm code P-01	X		1=this alarm is active, 0=inactive
47 [h2F]	R	Status of alarm code P-14	Х		1=this alarm is active, 0=inactive
48 [h30]	R	Status of alarm code P-28	Х		1=this alarm is active, 0=inactive
49 [h31]	R	Status of alarm code A1-03	Х		1=this alarm is active, 0=inactive
50 [h32]	R	Status of alarm code A2-03	X		1=this alarm is active, 0=inactive
51 [h33]	R	Status of alarm code A3-03	X		1=this alarm is active, 0=inactive
52 [h34]	R	Status of alarm code A4-03	X		1=this alarm is active, 0=inactive
53 [h35]	R	Status of alarm code B1-03	X		1=this alarm is active, 0=inactive
54 [h36]	R	Status of alarm code B2-03	X	1	1=this alarm is active, 0=inactive
55 [h37]	R	Status of alarm code B3-03	X		1=this alarm is active, 0=inactive
56 [h38]	R	Status of alarm code B4-03	X		1=this alarm is active, 0=inactive
57 [h39]	R R	Status of alarm code C1-03 Status of alarm code C2-03	X		1=this alarm is active, 0=inactive 1=this alarm is active, 0=inactive
58 [h3A] 59 [h3B]	R	Status of alarm code C2-03 Status of alarm code C3-03	X		1=this alarm is active, 0=inactive
60 [h3C]	R	Status of alarm code C3-03  Status of alarm code C4-03	X		1=this alarm is active, 0=inactive
00 [113C]	п	Status of alaim code C4-03	^		T=tills alaitii is active, 0=illactive
66 [h42]	R	JBUS alarm code	Х		
المحادث	- 11	5255 didiii 5500			
111 [h6F]	R/W	Cooling Setpoint 1		Х	Write value must be multiplied by 10
112 [h70]	R/W	Cooling Setpoint 2		Х	Write value must be multiplied by 10
113 [h71]	R/W	Heating Setpoint 1		Х	Write value must be multiplied by 10
114 [h72]	R/W	Heating Setpoint 2		Х	Write value must be multiplied by 10
100[670]	DAM	Chiller start/step	Х		0 - Off 1 - On
123[h7B]	R/W	Chiller start/stop	, A		0 = Off  1 = On

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	JBUS MEMORY MAPPING – 30RB&30RQ Default configuration								
REGISTER		CONTENT	Т	YPE	REMARK				
ADDRESS	ACCESS		INT	FLOAT					
124[h7C]	R/W	Control point		Х	Write value must be multiplied by 10				
125[h7D]	R/W	Demand Limit value	Х						
126[h7E]	R/W	Heat/Cool Select	Х		0=Cool 1=Heat 2=Auto				
133 [h85]	R/W	Jbus baud rate	Х		Default = 9600				
134 [h86]	R/W	Jbus address	Х		Default = 1				
135 [h87]	R/W	Jbus parity and stop bit	Х		Default = 0, no parity and 1 stop bit				
136 [h88]	R/W	CCN device bus number	Х		Default = 0 range = [0:230]				
137 [h88]	R/W	CCN device element number	Х		Default = 1 range = [1:239]				

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# 5 - JBus Memory Mapping - 30GX & 30HX Default Configuration

JBU	S MEMORY	/ MAPPING – 30GX&HX (up	1		_
REGISTER ADDRESS	JBUS ACCESS	CONTENT	TY	PE**	REMARK**
ADDRESS	ACCESS		INT	FLOAT	
0 [h00]	R	Entering fluid temperature		Х	Read value must be divided by 10
1 [h01]	R	Leaving Fluid Temperature		Х	Read value must be divided by 10
2 [h02]	R	Circuit A discharge Pressure		Х	Read value must be divided by 10
3 [h03]	R	Circuit B discharge Pressure		Х	Read value must be divided by 10
4 [h04]	R	Control Point		Х	Read value must be divided by 10
5 [h05]	R	Unit percent active capacity	Х		,
6 [h06]	R	Demand limit	Х		
7 [h07]	R	Chiller state	X		0=Off, 29=Stopping, 6=Delay, 24=running
8 [h08]	R	Alarm state	Х		0=Normal, 16=Partial, 25=Shutdown
9 [h09]	R	Heat cool select	Х		0 = Cool, 1 = Heat
10 [h0A]	R	Cooler pump 1 Status	X		, , , , , , , , , , , , , , , , , , , ,
11 [h0B]	R	Condenser pump Status	X		
12 [h0C]	R	Machine operating hours	X		
13 [h0D]	R	Compressor A1 Hours	X		
14 [h0E]	R	Compressor A2 Hours	X	1	
15 [h0F]	R	Compressor B1 Hours	X		
16 [h10]	R	Compressor B2 Hours	X		
10 [1110]	11	Compressor Bz riours	_ ^		
40 [h28]	R	Total number of active alarm	Х		Provide the code of up to 5 active
40 [h28]	R	Active alarm 1	X		alarms. These are stored in arriva
41 [1129] 42 [h2A]	R	Active alarm 2	X		order. Alarms read from
					CCN/JBUS are alarm index bur
43 [h2B]	R	Active alarm 3	X		not alarms codes as follows
44 [h2C] 45 [h2D]	R R	Active alarm 4 Active alarm 5	X		From iom, alarm codes 101 to
40 [HED]	.,	rotive diam's	,		117, index =88 (code101) to 104(code117)  from iomalarm codes 401 to 417 index=139(code401) to 155 (cod 417)
 66 [h42]	R	JBUS alarm code	Х		
111 [h6F]	R/W	Cooling Setpoint 1		X	Write value must be multiplied by 10
112 [h70]	R/W	Cooling Setpoint 2		Х	Write value must be multiplied by 10
113 [h71]	R/W	Heating Setpoint		Х	Write value must be multiplied by 10
 123[h7B]	R/W	Chiller start/stop	Х		0 = Off 1 = On
124[h7C]	R/W	Control point		Х	Write value must be multiplied by 10
125[h7D]	R/W	Demand Limit value	Х		
133 [h85]	R/W	Jbus baud rate	Х		Default = 9600
134 [h86]	R/W	Jbus address	X		Default = 1
135 [h87]	R/W	Jbus parity and stop bit	X		Default =0, no parity and 1 stop b
136 [h88]	R/W	CCN device bus number	X		Default = 0 range = [0:230]
137 [h88]	R/W	CCN device element number	X		Default = 1 range = [0:239]

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# 6 - JBus Memory Mapping - 30GK & 30HZ Default Configuration

REGISTER JBUS		CONTENT	TY	PE**	REMARK**	
ADDRESS	ACCESS		INT	FLOAT		
0 [h00]	R	Entering fluid temperature		Х	Read value must be divided by 1	
1 [h01]	R	Leaving Fluid Temperature		X	Read value must be divided by 1	
2 [h02]	R	Circuit A discharge Pressure		Х	Read value must be divided by 1	
3 [h03]	R	Circuit B discharge Pressure		X	Read value must be divided by 1	
4 [h04]	R	Control Point		Х	Read value must be divided by 1	
5 [h05]	R	Unit percent active capacity	Х			
6 [h06]	R	Demand limit	Х			
7 [h07]	R	Chiller state	Х		0=Off, 29=Stopping, 6=Delay, 24=running	
8 [h08]	R	Alarm state	Х		0=Normal, 16=Partial, 25=Shutdown	
9 [h09]	R	Heat cool select	X		0 = Cool, 1 = Heat 2 = Auto	
10 [h0A]	R	Cooler pump 1 Status	Х			
11 [h0B]	R	Condenser pump Status	Х			
12 [h0C]	R	Machine operating hours	Х			
13 [h0D]	R	Compressor A1 Hours	Х			
14 [h0E]	R	Compressor A2 Hours	Х			
15 [h0F]	R	Compressor B1 Hours	Х			
16 [h10]	R	Compressor B2 Hours	Х			
17 [h10]	R	Compressor A3 Hours	Х			
18 [h10]	R	Compressor A4 Hours	Х			
19 [h10]	R	Compressor B3 Hours	Х			
20 [h10] 	R	Compressor B4 Hours	Х			
40 [h28]	R	Number of active alarm	Х		Provide the code of up to 5 active	
41 [h29]	R	Active alarm 1	X		alarms. These are stored in arriv	
42 [h2A]	R	Active alarm 2	Х		order. Alarms read from	
43 [h2B]	R	Active alarm 3	Х		CCN/JBUS are alarm index bur	
44 [h2C]	R	Active alarm 4	Х		not alarms codes as follows From iom, alarm codes 101 to	
45 [h2D]	R	Active alarm 5	X		117, index =84 (code101) to 100(code117)  from iom alarm codes 801 to 81 index=203(code801) to 219 (cod 817)	
46 [h2E]	R	Status of alarm code 59	Х		1=this alarm is active, 0=inactive	
47 [h2F]	R	Status of alarm code 60	X		1=this alarm is active, 0=inactive	
48 [h30]	R	Status of alarm code 42	X		1=this alarm is active, 0=inactive	
49 [h31]	R	Status of alarm code 43	X		1=this alarm is active, 0=inactive	
50 [h32]	R	Status of alarm code 50	X		1=this alarm is active, 0=inactive	
51 [h32]	R	Status of alarm code 51	X		1=this alarm is active, 0=inactive	
52 [h32]	R	Status of alarm code 81	X		1=this alarm is active, 0=inactive	
53 [h32]	R	Status of alarm code 82	X		1=this alarm is active, 0=inactive	
54 [h32]	R	Status of alarm code 58	X		1=this alarm is active, 0=inactive	
55 [h32]	R	Status of alarm code 103	X		1=this alarm is active, 0=inactive	
56 [h32]	R	Status of alarm code 503	X		1=this alarm is active, 0=inactive	
66 [h42]	R	JBUS alarm code	Х			
111 [h6F]	R/W	Cooling Setpoint 1		Х	Write value must be multiplied b	
112 [h70]	R/W	Cooling Setpoint 2		Х	Write value must be multiplied b	
113 [h71]	R/W	Heating Setpoint 1		Х	Write value must be multiplied b	
 123[h7B]	R/W	Chiller start/stop	X		0 = Off 1 = On	
124[h7C]	R/W	Control point		Х	Write value must be multiplied b	

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JBU	JBUS MEMORY MAPPING – 30GK&HZ (up to version 2.x) Default configuration							
REGISTER	JBUS	CONTENT	CONTENT TYPE**					
ADDRESS	ACCESS		INT	FLOAT				
133 [h85]	R/W	Jbus baud rate	Х		Default = 9600			
134 [h86]	R/W	Jbus address	Х		Default = 1			
135 [h87]	R/W	Jbus parity and stop bit	Х		Default =0, no parity and 1 stop bit			
136 [h88]	R/W	CCN device bus number	Х		Default = 0 range = [0:230]			
137 [h88]	R/W	CCN device element number	Х		Default = 1 range = [1:239]			

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# 7 - JBus Memory Mapping - 30RA & 30RH & 30RY & 30RYH Default Configuration

REGISTER JBUS				PE**	REMARK**	
ADDRESS ACCESS		INT	FLOAT			
0 [h00]	R	Entering fluid temperature		Х	Read value must be divided by	
1 [h01]	R	Leaving Fluid Temperature		Х	Read value must be divided by	
2 [h02]	R	Circuit A discharge Pressure		Х	Read value must be divided by	
3 [h03]	R	Circuit B discharge Pressure		Х	Read value must be divided by	
4 [h04]	R	Control Point		Х	Read value must be divided by	
5 [h05]	R	Unit percent active capacity	Х			
6 [h06]	R	Demand limit	Х			
7 [h07]	R	Chiller state	Х		0=Off, 29=Stopping, 6=Delay, 24=running, 32 tripout, 15=override, 30=test, 37=defro	
8 [h08]	R	Alarm state	Х		0=Normal, 16=Partial, 25=Shutdown	
9 [h09]	R	Heat cool select	Х		0 = Cool, 1 = Heat 2 = Auto	
10 [h0A]	R	Pump # 1 Status	Х			
11 [h0B]	R	Interlock	Х			
12 [h0C]	R	Machine operating hours	Х			
13 [h0D]	R	Compressor A1 Hours	Х			
14 [h0E]	R	Compressor A2 Hours	Х			
15 [h0F]	R	Compressor B1 Hours	Х			
16 [h10]	R	Compressor B2 Hours	Х			
40 [h28]	R	Number of active alarm	Х		Provide the code of up to 5 acti	
41 [h29]	R	Active alarm 1	Х		alarms. These are stored in arr	
42 [h2A]	R	Active alarm 2	Х		order. Alarms read from	
43 [h2B]	R	Active alarm 3	Х		CCN/JBUS are alarm index but	
44 [h2C]	R	Active alarm 4	Х		not alarms codes as follows	
45 [h2D]	R	Active alarm 5	Х		Cooler freeze index=27, code= Service maintenance failure, index=46, code=55	
46 [h2E]	R	Status of alarm code 1	Х		1=this alarm is active, 0=inactive	
47 [h2F]	R	Status of alarm code 2	Х		1=this alarm is active, 0=inactive	
48 [h30]	R	Status of alarm code 5	Х	İ	1=this alarm is active, 0=inactive	
49 [h31]	R	Status of alarm code 6	Х		1=this alarm is active, 0=inactive	
50 [h32]	R	Status of alarm code 36	Х		1=this alarm is active, 0=inactive	
51 [h33]	R	Status of alarm code 37	Х		1=this alarm is active, 0=inactive	
52 [h34]	R	Status of alarm code 38	Х		1=this alarm is active, 0=inactive	
53 [h35]	R	Status of alarm code 46	Х		1=this alarm is active, 0=inactive	
54 [h36]	R	Status of alarm code 47	X		1=this alarm is active, 0=inactive	
55 [h37]	R	Status of alarm code 49	Х		1=this alarm is active, 0=inactiv	
56 [h38]	R	Status of alarm code 9	Х		1=this alarm is active, 0=inactiv	
57 [h39]	R	Status of alarm code 10	X		1=this alarm is active, 0=inactive	
58 [h3A]	R	Status of alarm code 14	Х		1=this alarm is active, 0=inactiv	
59 [h3B]	R	Status of alarm code 22	X		1=this alarm is active, 0=inactive	
60 [h3C]	R	Status of alarm code 55	X		1=this alarm is active, 0=inactiv	
61 [h3D]	R	Gateway current alarm code	X		2 = CCN communication failure	
66 [h42]	R	JBUS alarm code	Х			
111 [h6F]	R/W	Cooling Setpoint 1		Х	Write value must be multiplied 10	
112 [h70]	R/W	Cooling Setpoint 2		Х	Write value must be multiplied 10	
113 [h71]	R/W	Heating Setpoint 1		Х	Write value must be multiplied 10	
114 [h72]	R/W	Heating Setpoint 2		Х	Write value must be multiplied 10	
115 [h73]	R/W	Heating Setpoint 3		Х	Write value must be multiplied 10	
	D					
123[h7B] 124[h7C]	R/W R/W	Chiller start/stop Control point	Х	X	0 = Off 1 = On  Write value must be multiplied	

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JBUS	JBUS MEMORY MAPPING – 30RA&30RH (up to version 4.x) Default configuration						
REGISTER	JBUS	CONTENT	TY	PE**	REMARK**		
ADDRESS	ACCESS		INT	FLOAT			
					10		
125[h7D]	R/W	Demand Limit value	Х				
133 [h85]	R/W	Jbus baud rate	Х		Default = 9600		
134 [h86]	R/W	Jbus address	Х		Default = 1		
135 [h87]	R/W	Jbus parity and stop bit	Х		Default =0, no parity and 1 stop bit		
136 [h88]	R/W	CCN device bus number	Х		Default = 0 range = [0:230]		
137 [h88]	R/W	CCN device element number	Х		Default = 1 range = [1:239]		

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# 8 - JBus Memory Mapping - 30RW & 30RWA Default Configuration

1	0 [h00]  1 [h01]  2 [h02] 3 [h03]				1	
1	1 [h01] 2 [h02] 3 [h03]	R		INT	FLOAT	
Se-delay, 24-running, 32-tripon   15-override, 30-test	1 [h01] 2 [h02] 3 [h03]		Chiller state	Х		0=Off, 29=stopping, 19=Ready,
1 [h01]   R   Alarm State   X   Denormal, 36-alaert, 25-shutdown   2 [h02]   R   Heat cool select   X   Decool, 1-sheat   3 [h03]   R   Entering fluid temperature   X   Read value must be divided by 4 [h04]   R   Leaving fluid temperature   X   Read value must be divided by 5 [h05]   R   Control point   X   Read value must be divided by 6 [h06]   R   Unit percent active capacity   X   Read value must be divided by 1 [h07]   R   Demand limit   X   Read value must be divided by 1 [h07]   R   Demand limit   X   Read value must be divided by 1 [h07]   R   Demand limit   X   Read value must be divided by 1 [h06]   R   Circuit A active capacity   X   Read value must be divided by 1 [h06]   R   Circuit A suction pressure   X   Read value must be divided by 1 [h06]   R   Circuit A suction pressure   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Circuit B active capacity   X   Read value must be divided by 1 [h07]   R   Read value must be divided by 1 [h07]   R   Read value must be divided by 1 [h07]   R   Read value must be divided by 1 [h07]   R	2 [h02] 3 [h03]					6=delay, 24=running, 32=tripou
25-shutdown	2 [h02] 3 [h03]	R	Alarm State	Х		
Sh03  R   Entering fluid temperature   X   Read value must be divided by 5   h05  R   Control point   X   Read value must be divided by 5   h05  R   Control point   X   Read value must be divided by 5   h05  R   Control point   X   Read value must be divided by 6   h06  R   Unit percent active capacity   X   Read value must be divided by 1   h06  R   Circuit A active capacity   X   Read value must be divided by 1   h06  R   Circuit A citive capacity   X   Read value must be divided by 1   h06  R   Circuit A citive capacity   X   Read value must be divided by 1   h06  R   Circuit A citive capacity   X   Read value must be divided by 1   h06  R   Circuit A saturated condensing   X   Read value must be divided by 1   h06  R   Circuit A saturated condensing   X   Read value must be divided by 1   h06  R   Circuit B active capacity   X   Read value must be divided by 1   h06  R   Circuit B citive capacity   X   Read value must be divided by 1   h07  R   Circuit B citive capacity   X   Read value must be divided by 1   h16  R   Circuit B citive capacity   X   Read value must be divided by 1   h16  R   Circuit B citive capacity   X   Read value must be divided by 1   h16  R   Circuit B citive capacity   X   Read value must be divided by 1   h16  R   Circuit B citive pressure   X   Read value must be divided by 1   h16  R   Circuit B citive pressure   X   Read value must be divided by 1   h16  R   Circuit B citive pressure   X   Read value must be divided by 1   h16  R   Circuit B citive pressure   X   Read value must be divided by 1   h16  R   Circuit B citive pressure   X   Read value must be divided by 1   h16  R   Circuit B citive pressure   X   Read value must be divided by 1   h16  R   R   Circuit B citive pressure   X   Read value must be divided by 1   h16  R   R   Circuit B citive pressure   X   Read value must be divided by 1   h16  R   R   Circuit B citive pressure   X   Read value must be divided by 1   h16  R   R   Circuit B citive pressure   X   Read value must be divided by 1   h16  R   R   Circuit B c	3 [h03]		, marin state			
A				Х		
Sino5  R   Control point   X   Read value must be divided by						
Section   R						
Thor]   R   Demand limit   X				V	Х	Read value must be divided by
10   InOA  R   Circuit A active capacity   X   11   InOB  R   Circuit A discharge pressure   X   Read value must be divided by 12   InOC  R   Circuit A suction pressure   X   Read value must be divided by 13   InOD  R   Circuit A saturated condensing   X   Read value must be divided by 14   InOE  R   Circuit A saturated condensing   X   Read value must be divided by 15   InOF  R   Circuit B active capacity   X   Read value must be divided by 16   InOF  R   Circuit B discharge pressure   X   Read value must be divided by 17   In11   R   Circuit B suction pressure   X   Read value must be divided by 17   In11   R   Circuit B suction pressure   X   Read value must be divided by 18   In112   R   Circuit B Saturated condensing   X   Read value must be divided by 18   In112   R   Circuit B Saturated suction   X   Read value must be divided by 19   In113   R   Circuit B Saturated suction   X   Read value must be divided by 19   In113   R   Circuit B Saturated suction   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Cooler Pump #1 status   X   Read value must be divided by 19   In113   R   Read value must be divided by 19   In113   R   Read value must be divided by 19   In113   R   Read value must be divided by 19   In133   R   R   Read value must be divided by 19   In133   R						
11	/ [nu/]	R	Demand limit	X		
11	 10 [b0Δ]	R	Circuit A active canacity	Y		
12   InOC  R   Circuit A sutrion pressure   X   Read value must be divided by temp				_^	X	Read value must be divided by
13 [h0D]   R   Circuit A saturated condensing temp   X   Read value must be divided by temp   15 [h0F]   R   Circuit B active capacity   X   Read value must be divided by temp   16 [h10]   R   Circuit B discharge pressure   X   Read value must be divided by 17 [h11]   R   Circuit B Saturated condensing temperature   X   Read value must be divided by 18 [h12]   R   Circuit B Saturated condensing temperature   X   Read value must be divided by 19 [h13]   R   Circuit B Saturated condensing   X   Read value must be divided by 19 [h13]   R   Circuit B Saturated condensing   X   Read value must be divided by 19 [h13]   R   Circuit B Saturated suction   X   Read value must be divided by 19 [h13]   R   Circuit B Saturated suction   X   Read value must be divided by 19 [h14]   R   Cooler Pump #1 status   X   Read value must be divided by 19 [h14]   R   Cooler Pump #1 status   X   Read value must be divided by 19 [h14]   R   Cooler Pump #1 status   X   Read value must be divided by 19 [h14]   R   Cooler Pump #1 status   X   Read value must be divided by 19 [h14]   R   Cooler Pump #1 status   X   Read value must be divided by 19 [h14]   R   Cooler Pump #1 status   X   Read value must be divided by 19 [h14]   R   Cooler Pump #1 status   X   Read value must be divided by 19 [h14]   Read value must				1		
temp  14 [N0E] R Circuit A saturated condensing temp  15 [N0F] R Circuit B active capacity X Read value must be divided by temp  16 [N10] R Circuit B discharge pressure X Read value must be divided by 17 [N11] R Circuit B discharge pressure X Read value must be divided by 18 [N12] R Circuit B suction pressure X Read value must be divided by 18 [N12] R Circuit B Saturated condensing temperature  19 [N13] R Circuit B Saturated suction temperature X Read value must be divided by 19 [N13] R Coler Pump #1 status X Read value must be divided by 19 [N14] R Cooler Pump #1 status X Read value must be divided by 19 [N15] R Interlock X Read value must be divided by 19 [N16] Read value must be divided						
14   h0E   R   Circuit A saturated condensing temp   X   Read value must be divided by temp   15   h0F   R   Circuit B active capacity   X   Read value must be divided by 16   h10   R   Circuit B discharge pressure   X   Read value must be divided by 18   h12   R   Circuit B suction pressure   X   Read value must be divided by 18   h12   R   Circuit B Saturated condensing temperature   X   Read value must be divided by 19   h13   R   Circuit B Saturated suction temperature   X   Read value must be divided by 19   h13   R   Circuit B Saturated suction temperature   X   Read value must be divided by 19   h13   R   Cooler Pump #1 status   X   Read value must be divided by 19   h14   R   Cooler Pump #1 status   X   Read value must be divided by 19   h14   R   Cooler Pump #1 status   X   Read value must be divided by 19   h14   R   Cooler Pump #1 status   X   Read value must be divided by 19   h14   R   Cooler Pump #1 status   X   Read value must be divided by 19   h14   R   Cooler Pump #1 status   X   Read value must be divided by 19   h14   Read v	- []					
temp    Circuit B active capacity   X	14 [h0E]	R			Х	Read value must be divided by
16   h10						_
17 [h11]			Circuit B active capacity	Х		
18						
19   13   R   Circuit B Saturated suction temperature						
19   113   R   Circuit B Saturated suction temperature   Cooler Pump #1 status   X	18 [n12]	R			X	Read value must be divided by
Lemperature	10 [h13]	D			Y	Road value must be divided by
20   [h14]	19 [1113]	11			^	Tread value must be divided by
21     115   R	20 [h14]	R		Х		
22						
23 [h17]         R         Compressor A1 hours         X           24 [h18]         R         Compressor B2 hours         X           25 [h19]         R         Compressor B1 hours         X           26 [h1A]         R         Compressor B2 hours         X           26 [h1A]         R         Compressor B2 hours         X           40 [h28]         R         Number of active alarm         X           41 [h29]         R         Active alarm 1         X         alarms. These are stored in an order. Alarms read from           42 [h2A]         R         Active alarm 2         X         order. Alarms read from           43 [h2B]         R         Active alarm 3         X         CCN/JBUS are alarm index bunct alarms code as follows           45 [h2D]         R         Active alarm 4         X         not alarms codes as follows           45 [h2D]         R         Active alarm 5         X         Cooler freeze index=27, code-Service maintenance failure, index=46, code=55           46 [h2E]         R         Status of alarm code 1         X         1=this alarm is active, 0=inactifex           48 [h30]         R         Status of alarm code 5         X         1=this alarm is active, 0=inactifex           49 [h31]         R         Status				Х		
25   119	23 [h17]	R				
26   h1A   R   Compressor B2 hours   X						
40 [h28] R Number of active alarm X alarms. These are stored in ar order. Alarms read from 42 [h2A] R Active alarm 2 X order. Alarms read from 43 [h2B] R Active alarm 3 X OCCN/JBUS are alarm index but not alarms codes as follows 44 [h2C] R Active alarm 4 X not alarms codes as follows 45 [h2D] R Active alarm 5 X Cooler freeze index=27, codeservice maintenance failure, index=46, code=55  46 [h2E] R Status of alarm code 1 X 1=this alarm is active, 0=inactive foliation for the first alarm is active, 0=inactive foliation						
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41 [h29]       R       Active alarm 1       X       alarms. These are stored in arrorder. Alarms read from order. Alarms read from		R	Number of active alarm	Y		Provide the code of up to 5 acti
42 [h2A]       R       Active alarm 2       X       order. Alarms read from         43 [h2B]       R       Active alarm 3       X       CCN/JBUS are alarm index but not alarms codes as follows         44 [h2C]       R       Active alarm 4       X       not alarms codes as follows         45 [h2D]       R       Active alarm 5       X       Cooler freeze index=27, code-Service maintenance failure, index=46, code=55         46 [h2E]       R       Status of alarm code 1       X       1=this alarm is active, 0=inacti active						
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53 [h35]RStatus of alarm code 34X1=this alarm is active, 0=inactive, 0=ina			Status of alarm code 30			1=this alarm is active, 0=inactive
54 [h36]RStatus of alarm code 31X1=this alarm is active, 0=inactive, 0=ina						1=this alarm is active, 0=inactive
55 [h37]RStatus of alarm code 33X1=this alarm is active, 0=inactive, 0=ina						1=this alarm is active, 0=inactive
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57 [h39]RStatus of alarm code 43X1=this alarm is active, 0=inactive, 0=ina			1			
58 [h3A]     R     Status of alarm code 50     X     1=this alarm is active, 0=inactive, 0=inacti						-
59 [h3B]     R     Status of alarm code 14     X     1=this alarm is active, 0=inacti       60 [h3C]     R     Status of alarm code 56     X     1=this alarm is active, 0=inacti						
60 [h3C] R Status of alarm code 56 X 1=this alarm is active, 0=inacti						
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	JBUS MEMORY MAPPING – 30RW (all versions) Default Configuration						
REGISTER	JBUS	CONTENT	TYPE		REMARK		
ADDRESS	ACCESS		INT	FLOAT			
111 [h6F]	R/W	Cooling Setpoint 1		Х	Write value must be multiplied by 10		
112 [h70]	R/W	Cooling Setpoint 2		Х	Write value must be multiplied by 10		
113 [h71]	R/W	Heating Setpoint 1		Х	Write value must be multiplied by 10		
114 [h72]	R/W	Heating Setpoint 2		Х	Write value must be multiplied by 10		
115 [h73]	R/W	Heating Setpoint 3		Х	Write value must be multiplied by 10		
 123 [h7B]	R/W	Chiller start/stop	х		0 = Off 1 = On		
124 [h7C]	.,,,,,	Chiller Occupancy mode	X		0=unoccupied 1=occupied		
125 [h7D]	R/W	Control point		Х	Write value must be multiplied by 10		
126 [h7E]	R/W	Demand Limit value	Х				
127 [f7F]	R/W	Heat cool select	Х		0 = Cool 1= Heat		
133 [h85]	R/W	Jbus baud rate	Х		Default = 9600		
134 [h86]	R/W	Jbus address	Х		Default = 1		
135 [h87]	R/W	Jbus parity and stop bit	Х		Default =0, no parity and 1 stop bit		
136 [h88]	R/W	CCN device bus number	Х		Default = 0 range = [0:230]		
137 [h88]	R/W	CCN device element number	Х		Default = 1 range = [1:239]		

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# 9 - JBus Memory Mapping - System Manager NTC Default Configuration

	JBUS	CONTENT	TYPE		REMARK
ADDRESS	ACCESS		INT	FLOAT	
0 [h00]	R	Cooling mode threshold	Х		
1 [h01]	R	Heating mode threshold	X		
2 [h02]	R	SM time schedule Enabled	Х		
3 [h03]	R	TC number in database		X	Read value must be divided by 1
4 [h04]	R	TC number demanding cooling		X	Read value must be divided by 1
5 [h05]	R	TC number demanding heating		X	Read value must be divided by 1
6 [h06] 7 [h07]	R R	Current cooling demand % Current heating demand %	_	X	Read value must be divided by 1 Read value must be divided by 1
8 [h08]	П	4-pipe boiler control	Х	^	head value must be divided by 1
9 [h09]		TC alarm report	X		
10 [h0A]	R	Generic output	X		
11 [h0B]	R	System mode	X		See user guide appendix D *
12 [h0C]	R	Zone Loadsched start		Х	Read value must be divided by 1
13 [h0D]	R	Electric unloading	Х		See user guide appendix D *
14 [h0E]	R	SM control enabled	X		Goo door gardo appondix B
15 [h0F]	R	Chiller communication status	X		See user guide appendix D *
16 [h10]	R				
40 [h28]	R	Number of active alarm			Provide the code of up to 5 active
41 [h29]	R	Active alarm 1			alarms. These are stored in arriv
42 [h2A]	R	Active alarm 2			order. Alarms read from
43 [h2B]	R	Active alarm 3			CCN/JBUS are alarm index bur
44 [h2C]	R	Active alarm 4			not alarms codes as follows
45 [h2D]	R	Active alarm 5			Cooler freeze index=27, code=3 Service maintenance failure,
46 [h2E]	R	Status of alarm code 1			index=46, code=55 1=this alarm is active, 0=inactive
47 [h2F]	R	Status of alarm code 2			1=this alarm is active, 0=inactive
48 [h30]	R	Status of alarm code 2			1=this alarm is active, 0=inactive
49 [h31]	R	Status of alarm code 4			1=this alarm is active, 0=inactive
50 [h32]	R	Status of alarm code 5			1=this alarm is active, 0=inactive
51 [h33]	R	Status of alarm code 6			1=this alarm is active, 0=inactive
52 [h34]	R	Status of alarm code 7			1=this alarm is active, 0=inactive
53 [h35]	R	Status of alarm code 8			1=this alarm is active, 0=inactive
54 [h36]	R	Status of alarm code 9			1=this alarm is active, 0=inactive
55 [h37]	R				
56 [h38]	R				
57 [h39]	R				
58 [h3A]	R				
59 [h3B]	R				
60 [h3C] 61 [h3D]	R R	Gateway current alarm code			2 = CCN communication failure
					Z = GON COMMUNICATION TAILUTE
66 [h42]	R	JBUS alarm code			
111 [h6F]	R/W	Cooling mode threshold	Х		
112 [h70]	R/W	Heating mode threshold	X		
113 [h71]	R/W	SM time schedule Enabled	X		
114 [h72]	R/W				
123 [h7B]	R/W	4-pipe boiler control	Х		
124 [h7C]		SM time schedule Enabled	X		
125 [h7D]	R/W	Generic output	Х		
126 [h7E]	R/W				
127 [f7F]	R/W				
133 [h85]	R/W	Jbus baud rate			Default = 9600
134 [h86]	R/W	Jbus address	Х		Default = 1
	R/W	Jbus parity and stop bit	Х		Default =0, no parity and 1 stop I
135 [h87]	1 1/ V V	obus parity and stop bit	X		Default =0, no panty and 1 stop t

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REGISTER ADDRESS	JBUS	CONTENT	TYPE		REMARK
	ACCESS		INT	FLOAT	
	D	Zono actuaint act instance 1		V	Read value must be divided by 1
200[hC8] 201[hC9]	R R	Zone setpoint set instance 1 Zone unoccupied dead band inst 1		X	Read value must be divided by 1
202[hCA]	R	Zone occupied dead band inst 1		X	Read value must be divided by 1
203[hCB]	R	TC communication status inst 1	Х		See user guide appendix D *
204[hCC]	R	Cooling limit instance 1	X		See user guide appendix D *
205[hCD]	R	Heating limit instance 1	X		See user guide appendix D *
206[hCE]	R	TC number instance 1	Х		
207[hCF]	R	Space temperature inst 1		Х	Read value must be divided by
208[hD0]	R	Water temperature inst 1		X	Read value must be divided by
209[hD1]	R	Current cooling setpoint inst 1		X	Read value must be divided by
210[hD2]	R	Current heating setpoint inst 1		X	Read value must be divided by
211[hD3]	R	Terminal mode instance 1	X		See user guide appendix D *
212[hD4]	R R	TC caller type instance 1	X		See user guide appendix D *
213[hD5] 214[hD6]	R	Fan status instance 1 Cooling valve status inst 1	X		See user guide appendix D *
214[fiD6] 215[hD7]	R	Heating valve status inst 1	X		
216[hD8]	R	Pump status inst 1	X		
217[hD9]	R	Pump switch status inst 1	X		
218[hDA]	R	Window contact status	X		
219[hDB]	R	Presence detection status inst 1	Х		
220[hDC]	R	Electric heater status inst 1	Х		See user guide appendix D *
221[hDD]	R	Additional elec heater status inst 1	X		See user guide appendix D *
222[hDE]	R	Terminal alarm code inst 1	X		
223[hDF]	R	Setpoint offset resolution inst 1		X	Read value must be divided by
224[hE0]	R	Zone loadsched in progress inst 1	X		
225[hE1] 226[hE2]	R R	Zone number instance 1 Zone occ override in progress ins 1	X		
227[hE3]	R	Frost protection setpoint	^	Х	Read value must be divided by
228[hE4]	R	Op mode set for zone inst 1	Х		Tioda value maet be divided by
229[hE5]	R	TC zone configuration inst 1	Х		
230[hE6]	R	Fan speed set inst 1	Х		
231[hE7]	R	Louvre mode set inst 1	Χ		
232[hE8]	R	Unused			
233[hE9]	R	Unused			
234[hEA]	R	Zone setpoint set instance 2		X	Read value must be divided by
235[hEB]	R	Zone unoccupied dead band inst 2		Х	Read value must be divided by
•	•		•		•
266[h10A]	R	Fan speed set inst 2	Х	•	•
267[h10B]	R	Louvre mode set inst 2	X		
268[h10C]	R	Unused			
269[h10D]	R	Unused			
1700[h10E0]	R/W	Zone setpoint set instance 1		X	Write value must be multiplical to
1700[h125C]		·			Write value must be multiplied b
1701[h125D]	R/W	Zone unocc dead band set inst 1		Х	Write value must be multiplied b
1702[h125E]	R/W	Zone occ dead band set inst 1		X	Write value must be multiplied b
4703[h125F]	R/W	Occ mode override enable inst 1	Х		
4704[h1260]	R/W	Setpoint offset resolution inst 1		X	Write value must be multiplied b
4705[h1261]	R/W	TC zone configuration inst 1	Х		
4706[h1262]	R/W	Fan speed set instance 1	Χ		
4707[h1263]	R/W	Op mode set for the zone inst 1	Х		
4708[h1264]	R/W	Zone setpoint set instance 2		X	Write value must be multiplied b
4700[ -400[]	R/W	Zone unocc dead band set inst 2		Х	Write value must be multiplied b
4709[h1265]	1 1/ V V	Zone unocc dead band set mst z		^	10

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JBUS	JBUS MEMORY MAPPING – System Manager (NTC version) Default Configuration							
REGISTER	JBUS	CONTENT	TYPE		REMARK			
ADDRESS	ACCESS		INT	FLOAT				
5722[h165A]	R/W	Fan speed set instance 128	Х					
5723[h165B]	R/W	Op mode set for the zone inst 128	Х					
5724[h165C]	R	Zone setpoint set instance 1 flag	Х					
6747[h1A5B]	R	Op mode set for the zone inst 1 flag	Х					
6748[h1A5C]	R.	Zone setpoint set instance 1 status	Х					
7771[h1E5B]	R	Op mode set for the zone inst 128 status	Х					

<sup>\*:</sup> User'guide Appendix D describes the Ascii string tables. A string is associated to a value

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10 - JBus Memory Mapping - 30XA & 30XQ Default Configuration

REGISTER JBUS		S CONTENT		YPE	REMARK	
ADDRESS ACCESS	53.112.11	INT	FLOAT			
0 [h00]	R	Entering fluid temperature		Х	Read value must be divided by 10	
1 [h01]	R	Leaving Fluid Temperature		Х	Read value must be divided by 10	
2 [h02]	R	Circuit A discharge Pressure		Х	Read value must be divided by 10	
3 [h03]	R	Circuit B discharge Pressure		Х	Read value must be divided by 1	
4 [h04]	R	Control Point		Х	Read value must be divided by 10	
5 [h05]	R	Unit percent active capacity	X			
6 [h06]	R	Demand limit	Х			
7 [h07]	R	Chiller state	X			
8 [h08]	R	Alarm state	X			
9 [h09]	R	Heat cool select	X	-	0 = Cool, 1 = Heat 2 = Auto	
10 [h0A]	R	Cooler pump 1 Status	X			
11 [h0B]	R R	Cooler pump 2 Status	X			
12 [h0C]		Machine operating hours	X			
13 [h0D] 14 [h0E]	R R	Compressor A Hours Compressor A Starts	X			
15 [h0F]	R	Compressor B Hours	X	+		
16 [h10]	R	Compressor B Starts	X			
17 [h10]	R	Compressor C Hours	X			
18 [h10]	R	Compressor C Starts	X			
19 [h10]	R	Circuit C discharge Pressure	X			
40 [h28]	R	Number of active alarm	Х		Provide the code of up to 5 active	
41 [h29]	R	Active alarm 1	Х		alarms. These are stored in arriva	
42 [h2A]	R	Active alarm 2	Х		order. Alarms read from	
43 [h2B]	R	Active alarm 3	Х		CCN/JBUS are alarm index bur r	
44 [h2C]	R	Active alarm 4	Х		alarms codes.	
45 [h2D]	R	Active alarm 5	Х			
46 [h2E]	R	Status of alarm code P-01	Х		1=this alarm is active, 0=inactive	
47 [h2F]	R	Status of alarm code P-91	Х		1=this alarm is active, 0=inactive	
48 [h30]	R	Status of alarm code P-28	Х		1=this alarm is active, 0=inactive	
49 [h31]	R	Status of alarm code P-67	Х		1=this alarm is active, 0=inactive	
50 [h32]	R	Status of alarm code P-68	X		1=this alarm is active, 0=inactive	
51 [h33]	R	Status of alarm code P-69	Х		1=this alarm is active, 0=inactive	
52 [h34]	R	Status of alarm code P-32	Х		1=this alarm is active, 0=inactive	
53 [h35]	R	Status of alarm code P-33	X		1=this alarm is active, 0=inactive	
54 [h36]	R	Status of alarm code A1-03	Х		1=this alarm is active, 0=inactive	
55 [h37]	R	Status of alarm code B1-03	X		1=this alarm is active, 0=inactive	
56 [h38]	R	Status of alarm code C1-03	X		1=this alarm is active, 0=inactive	
66 [h42]	R	JBUS alarm code	Х			
111 [h6F]	R/W	Cooling Setpoint 1		Х	Write value must be multiplied by 10	
112 [h70]	R/W	Cooling Setpoint 2		Х	Write value must be multiplied by 10	
113 [h71]	R/W	Heating Setpoint 1		Х	Write value must be multiplied by 10	
114 [h72]	R/W	Heating Setpoint 2		Х	Write value must be multiplied by 10	
123[h7B]	R/W	Chiller start/stop	Х		0 = Off 1 = On	
124[h7C]	R/W	Control point		Х	Write value must be multiplied by 10	
125[h7D]	R/W	Demand Limit value	Х			
126[h7E]	R/W	Heat/Cool Select	Х		0=Cool 1=Heat 2=Auto	
	<b></b>	<u> </u>	1		D ( 1) 0000	
133 [h85]	R/W	Jbus baud rate	X		Default = 9600	
134 [h86]	R/W	Jbus address	X	-	Default = 1	
135 [h87]	R/W	Jbus parity and stop bit	X	-	Default = 0, no parity and 1 stop	
136 [h88] 137 [h88]	R/W R/W	CCN device bus number CCN device element number	X	+	Default = 0 range = [0:230] Default = 1 range = [1:239]	

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# 11 - JBus Memory Mapping - 50AZ & 50UZ Default Configuration

	JBUS	CONTENT	TYPE		REMARK
	ACCESS		INT	FLOAT	
0 [h00]	R	Space Air temperature sensor 1		Х	Read value must be divided by 10
1 [h01]	R	Supply Air Temperature		Х	Read value must be divided by 10
2 [h02]	R	Control point		Х	Read value must be divided by 10
3 [h03]	R	Discharge pressure circuit A		Х	Read value must be divided by 10
4 [h04]	R	Discharge pressure circuit B		Х	Read value must be divided by 10
5 [h05]	R	Suction pressure circuit A		Х	Read value must be divided by 1
6 [h06]	R	Suction pressure circuit B		Х	Read value must be divided by 1
7 [h07]	R	compressor total capacity %	Х		j
8 [h08]	R	Alarm state	Х		
9 [h09]	R	Unit Run State	Х		
10 [h0A]	R	Supply Fan Relay	X		
11 [h0B]	R	Air Flow	X		
12 [h0C]	R	Total operating hours	X		
13 [h0D]	R	Compressor A hours	X		
14 [h0E]	R	Compressor B hours	X		
	П	Compressor D nouis	^		+
46 [h2E]	R	Status of alarm number #1	Х		1=this alarm is active, 0=inactive
47 [h2F]	R	Status of alarm number #3	<u> </u>	-	1=this alarm is active, 0=inactive
		Status of alarm number #36	X		1=this alarm is active, 0=inactive
48 [h30]	R				
49 [h31]	R	Status of alarm number #37	X		1=this alarm is active, 0=inactive
50 [h32]	R	Status of alarm number #34	X		1=this alarm is active, 0=inactive
51 [h33]	R	Status of alarm number #35	X		1=this alarm is active, 0=inactive
52 [h34]	R	Status of alarm number #46	X		1=this alarm is active, 0=inactive
53 [h35]	R	Status of alarm number #44	X		1=this alarm is active, 0=inactive
54 [h36]	R	Status of alarm number #45	Χ		1=this alarm is active, 0=inactive
55 [h37]	R	Status of alarm number #49	Х		1=this alarm is active, 0=inactive
56 [h38]	R	Status of alarm number #5	Χ		1=this alarm is active, 0=inactive
57 [h39]	R	Status of alarm number #8	Χ		1=this alarm is active, 0=inactive
58 [h3A]	R	Status of alarm number #9	Х		1=this alarm is active, 0=inactive
59 [h3B]	R	Status of alarm number #53	X		1=this alarm is active, 0=inactive
60 [h3C]	R	Status of alarm number #22	Χ		1=this alarm is active, 0=inactive
66 [h42]	R	JBUS alarm code	Х		
111 [h6F]	R/W	Occupencied Space temp setpoint		Х	Write value must be multiplied by
112 [h70]	R/W	Occupied dead band		Х	Write value must be multiplied by
113 [h71]	R/W	Unccupencied Space temp setpoint		Х	Write value must be multiplied by
114 [h72]	R/W	Occupied dead band		Х	Write value must be multiplied by
115[h73]	R/W	Frost Protect Setpoint		Х	Write value must be multiplied by 10
 123[h7B]	R/W	RoofTop CCN Command	Х	1	0 = Disable 1 = Enable
124[h7C]	R/W	Control point		Х	Write value must be multiplied by 10
125[h7D]	R/W	Limit Signal Active	X	1	0 = No 1 = Yes
133 [h85]	R/W	Jbus baud rate	Х	+	Default = 9600
134 [h86]	R/W	Jbus address	X		Default = 1
135 [h87]	R/W	Jbus parity and stop bit	X		Default = 0, no parity and 1 stop
136 [h88]	R/W	CCN device bus number	X		Default = 0 range = [0:230]
137 [h88]	R/W	CCN device element number	X	1	Default = 1 range = [1:239]