

# JTL DRY AIR COOLER ITEM NUMBERS

# DA110

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
<b>1. Jnet NETWORK IDENTIFICATION</b>						
0	Unit type	DA11	Unit type			
19	Software version number					
1	Unit number				0.1 - 899.8	
<b>2. TEMPERATURES</b>						
21	Coolant supply temperature					
36	Supply temperature sensor selection	OFF t1.En	Not selected Selected		0 - 1	t1.En
22	Coolant return temperature					
37	Return temperature sensor selection	OFF t2.En	Not selected Selected		0 - 1	t2.En
23	Cooler air on temperature					
38	Air on temperature sensor selection	OFF t3.En	Not selected Selected		0 - 1	t3.En
24	Cooler air off temperature					
39	Air off temperature sensor selection	OFF t4.En	Not selected Selected		0 - 1	t4.En
122	Temperature display unit choice	CELS FAhr	Celsius Fahrenheit		0 - 1	CELS
<b>3. TEMPERATURE ALARMS</b>						
31	High supply temperature alarm level				30 - 50	40
32	Low supply temperature alarm level				-20 to +20	0
33	High return temperature alarm level				40 - 50	45
34	Low return temperature alarm level				-20 to +20	0
35	Temperature alarm delay				0 - 60	15

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<b>4. TEMPERATURE CONTROL</b>						
Forced functions remain forced if the Maintenance Unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged.						
40	Coolant supply temperature setpoint				20 - 45	30
41	Analogue/stepped cooling control selection	StEP A.LOG	Step control Analogue control		0 - 1	StEP
42	Analogue fan speed gain				1 - 25	10
43	Cooler temperature deadband				1 - 5	2
44	Cooler control time constant				1 - 250	30
45	Integrated temperature error					
46	Delay time between stages (secs)				15 - 120	30
50	Number of cooling steps (step control)				0 - 7	7
51	Number of cooling steps running					
52	Forced number of cooling steps		Step  Analogue		0 - no. of steps (item 390) 0 - 99	
53	Cooling input status Note: If more than one input is present, the numbers shown in brackets are added together and displayed instead.	1 2 4 8 16 32 64	Cooling input 1 Cooling input 2 Cooling input 3 Cooling input 4 Cooling input 5 Cooling input 6 Cooling input 7			
54	Cooling output status Note: If more than one output is present, the numbers shown in brackets are added together and displayed instead.	1 2 4 8 16 32 64	Cooling output 1 Cooling output 2 Cooling output 3 Cooling output 4 Cooling output 5 Cooling output 6 Cooling output 7			
<b>5. INPUT/OUTPUT</b>						
20	Operating mode (v0.00.1 on)	oFF Auto	Not in auto mode Auto mode			
70	Input states	iP - - iP 1 - iP - 2	No input Input 1 Input 2			
71	Auto/manual input (IP-1)	OFF  Auto	Manual (pack controller dormant) Auto mode			
72	Plant failed input (IP-2)	CLr P.FLd	No input Input present			
61	Watchdog status (LN/LD-2)	OFF On	Watchdog fail Watchdog healthy			

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<b>6. CLOCK CALENDAR</b>						
Note: The time and date can be displayed as standard or daylight saving (summer) time. This choice is made on item 18. When daylight saving is chosen and the controller is connected to a JTL Network Controller supporting daylight saving operation, the change is made automatically to the current EU directive.						
2	Time of day				00:00 - 23:59	
3	Day of week	Sun - Sat	0 = Sunday 1 = Monday etc			
4	Date				01:01 - 31:12	
5	Year				1992 - 2022	
18	Daylight saving enable	Stnd dAY.S	Standard time Daylight saving time		0 - 1	Stnd
<b>7. SYSTEM ALARMS</b>						
80	Group alarm 81 - 88	0 1 - 255	No alarms Check 81 - 88			
81	High coolant supply temperature	CLr Hi.CS	No fault Fault			
82	Low coolant supply temperature	CLr Lo.CS	No fault Fault			
83	High coolant return temperature	CLr Hi.Cr	No fault Fault			
84	Low coolant return temperature	CLr Lo.Cr	No fault Fault			
85	Coolant supply sensor fault	CLr C.S.S.F	No fault Fault			
86	Coolant return sensor fault	CLr C.r.S.F	No fault Fault			
87	Cooler fan fault	CLr Fn.Ft	No fault Fault			
88	Plant failed	CLr P.Fld	No fault Fault			
90	Group alarm 91 -98	0 1 - 255	No alarms Check 91 - 98			
91	Cooler interface fault	CLr CL.iF	No fault Fault			
92	Temperature interface fault	CLr tS.iF	No fault Fault			
93	Air on sensor fault	CLr A.on	No fault Fault			
94	Air off sensor fault	CLr A.oFF	No fault Fault			

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<b>8. RESTORE FACTORY DEFAULTS</b>						
9	Set default values To set the factory defaults into the memory of the controller, set item 9 to the set default value of "1234". This should be done on initial commissioning of the unit or when the unit is being installed as a replacement part.	1234 1066	Load default settings Write to NVRAM immediately			
<b>9. DIAGNOSTICS &amp; TEST FUNCTIONS</b>						
6	JTL Network communications speed	4.8	Kilo Baud			
7	Communications method	HALF	2 wire			
8	Bitswitch Setting		Not used			
99	Test digital displays	CLr SEt	Not active Test active		0 - 1	
100	Test inputs	- - - - 1 - - - - 2 - -	No inputs Input 1 on Input 2 on			
101	Test relay outputs	clr SEt	Not active Test active		0 - 1	
10	Processor alarms (11 - 17)	0 1 - 255	No alarms Check 11 - 17			
11	Static RAM fault	CLr rA.Ft	No fault Fault			
12	Program/counter fault	CLr PC.Ft	No fault Fault			
13	Stack pointer fault	CLr SP.Ft	No fault Fault			
14	Background loop fault	CLr bL.Ft	No fault Fault			
15	PROM checksum fault	CLr Pr.Ft	No fault Fault			
16	NVRAM fault	CLr n.Ft	No fault Fault			
17	Instruction TRAP fault	CLr tP.Ft	No fault Fault			

<b>DISPLAY DATA</b>		<b>DA110</b>
<b>NORMAL DISPLAY</b>		
99.9	Coolant supply temperature (Celsius)	
--	No data	
<b>ALARM TEXT (in descending priority order)</b>		
P.Fld	Plant failed	
Hi.Cr	High coolant return temperature	
Lo.Cr	Low coolant return temperature	
FAn	Cooling fan problem	
FAIL	Jnet communications failure	
C.S.S.F	Coolant supply sensor fault	
C.r.S.F	Coolant return sensor fault	
C.L.iF	Cooler interface fault	
t.S.iF	Temperature sensor fault	
<b>OTHER TEXT</b>		
JTL	Start-up text	