CONTENTS

JTL CABINET MONITOR ITEM NUMBERS						DC120
ITEM	**DESCRIPTION**	**CODE**	**CODE MEANING**	**BIT** **4321**	**RANGE**	**ITEM 9 VALUE**
1. Jnet NETWORK IDENTIFICATION						
0	Unit type	dc12	Unit type			
19	Software Version number					
101	Unit number channel 1				0.1 - 899.9	
201	Unit number channel 2				0.1 - 899.9	
2. CHANNEL SELECTION						
105	Channel selection	OFF C1.En	off Channel 1 enabled		0 - 1	Enabled
205	Channel selection	OFF C2.En	off Channel 2 enabled		0 - 1	Enabled
3. TEMPERATURE						
3.1 CHANNEL 1						
120	Estimated cabinet temperature (calculated from Air on and Air off temperatures)					
121 (21)	Air on temperature					
136	Air on sensor selection	oFF AO.En	Disabled Enabled		0 - 1	AO.En
122 (22)	Air off temperature					
137	Air off sensor selection	oFF AF.En	Disabled Enabled		0 - 1	AF.En
133	Cabinet temperature ratio (Item 120 calculated as value between Air off and Air on using this ratio)				20 - 80	50
3.2 CHANNEL 2						
220	Estimated cabinet temperature (calculated from Air on and Air off temperatures)					
221 (23)	Air on temperature					
236	Air on sensor selection	oFF AO.En	Disabled Enabled		0 - 1	AO.En
222 (24)	Air off temperature					
237	Air off sensor selection	oFF AF.En	Disabled Enabled		0 - 1	AF.En
233	Cabinet temperature ratio (Item 220 calculated as value between Air off and Air on using this ratio)				20 - 80	50

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4. TEMPERATURE ALARMS						
4.1 CHANNEL 1						
126	Average cabinet temperature error					
130	Cabinet temperature setpoint (target for item 120)				-35.0 to +10.0	-20
132	Overtemperature alarm tolerance				0 - 25	10
47	Period over which average temperatures are taken				00:30 - 03:00	01:00
4.2 CHANNEL 2						
226	Average cabinet temperature error					
230	Cabinet temperature setpoint (target for item 220)				-35.0 to +10.0	-20
232	Overtemperature alarm tolerance				0 - 25	10
47	Period over which average temperatures are taken				00:30 - 03:00	01:00

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			5. INPUTS			
71	Input status NOTE: If more than one input is present the numbers shown in brackets are added together and displayed instead of the text	d.in.1 (1) d.in.2 (2) iP.3 (4) iP.4 (8) P.in.1 (16) P.in.2 (32) iP.7 (64) iP.8 (128)	Defrost input 1 Defrost input 2 Spare input 3 Spare input 4 Plant input 1 Plant input 2 Spare input 7 Spare input 8			
55	Invert plant inputs (v0.00.0 only)	no YES	Input present = alarm Input absent = alarm		0 - 1	no
66	Invert plant inputs (v0.00.1 on)	no YES	Input present = alarm Input absent = alarm		0 - 1	no
			5.1 CHANNEL 1			
170	Operating mode	rEFr dEFr dF.rc Sh.dn	Refrig. Defrost Defrost recovery Shutdown			
171	Defrost input	OFF dF.iP	No defrost Defrost contacts closed			
172	Alarm input	OFF AL.iP	No alarm Alarm present			
			5.2 CHANNEL 2			
270	Operating mode	rEFr dEFr dF.rc Sh.dn	Refrig. Defrost Defrost recovery Shutdown			
271	Defrost input	OFF dF.iP	No defrost Defrost contacts closed			
272	Alarm input	OFF AL.iP	No alarm Alarm present			

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6. DEFROST						
6.1 DEFROST DATA & STRATEGY						
107	Defrost strategy selection	v0.00.2				
		0 nc.in iP.in	None Network initiated Input initiated		0 - 2	iP.in
		v0.00.3 on				
		0 nc.in nc.in iP.in iP.in AF.in AF.in	None Network initiated Input initiated Air Off initiated		0 - 6	iP.in
69	Number of defrosts expected per day	0 1 - 6	Disable alarm 94 Alarm enabled		0 - 6	3
6.1.1 CHANNEL 1 DATA						
140	Duration of last defrost					
141	Time since end of last defrost					
142	Duration of current defrost					
6.1.2 CHANNEL 2 DATA						
240	Duration of last defrost					
241	Time since end of last defrost					
242	Duration of current defrost					
6.2 AIR TEMPERATURE INITIATED DEFROST						
158	Defrost initiation temperature (air off) Channel 1 (v0.00.3)				0.0 - 30.0	15.0
258	Defrost initiation temperature (air off) Channel 2 (v0.00.3)				0.0 - 30.0	15.0
6.3 CONTACT INITIATED DEFROST						
65	Invert defrost inputs	no YES	Input present = defrost Input absent = defrost		0 - 1	no

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6.4 NETWORK INITIATED DEFROST						
45	Network initiated defrost selection (see item 107) (up to v0.00.1)	n.I.dF oFF	Enabled Disable		0 - 1	oFF
146	Network initiated defrost command status. Channel 1	P.dEF F.dEF 0	Pack on defrost Pack on forced defrost Pack not on defrost			
246	Network initiated defrost command status. Channel 2	P.dEF F.dEF 0	Pack on defrost Pack on forced defrost Pack not on defrost			
6.5 DEFROST TERMINATION						
157	Defrost termination time limit Channel 1				00:15 - 01:00	00:30
257	Defrost termination time limit Channel 2				00:15 - 01:00	00:30
7. Jnet COMMAND FUNCTIONS						
62	Network controlled Shutdown selection	oFF Sh.dn	Disabled Enabled		0 - 1	oFF
163	Network command for shutdown Channel 1	run Sh.dn	Run Shutdown			
263	Network command for shutdown Channel 2	run Sh.dn	Run Shutdown			
8. RESTORE FACTORY DEFAULTS To set the factory defaults into the memory of the controller, first set the bitswitches as shown, then 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.						
9	Set default values selected by Bitswitch				0 - 1	
9. SYSTEM ALARMS						
80	Group alarm 81 - 88	0 1 - 255	No alarms Check 81 - 88			
85	Thermistor power supply fault	CLr PS.Ft	No fault Fault			
88	All sensors faulty, deselected or disconnected	CLr t.SEn	No fault Fault			

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9.1 CHANNEL 1						
180	Group alarm 81 - 88	0 1 - 255	No alarms Check 81 - 88			
181	Cabinet overtemperature	CLr C.Ht	No fault Fault			
182	Air off overtemperature	CLr A.Ht	No fault Fault			
183	Air on sensor fault	CLr AO.Pr	No fault Fault			
184	Air off sensor fault	CLr AF.Pr	No fault Fault			
186	Plant alarm	CLr P.AL	No fault Plant alarm			
187	Unit shutdown	CLr Sh.dn	Normal operation Shutdown			
190	Group alarm 191-198	0 1 - 255	No alarms Check 91 - 98			
194	Expected defrosts have not been detected	CLr dEF.F	No fault Fault			
9.2 CHANNEL 2						
280	Group alarm 81 - 88	0 1 - 255	No alarms Check 81 - 88			
281	Cabinet overtemperature	CLr C.Ht	No fault Fault			
282	Air off overtemperature	CLr A.Ht	No fault Fault			
283	Air on sensor fault	CLr AO.Pr	No fault Fault			
284	Air off sensor fault	CLr AF.Pr	No fault Fault			
286	Plant alarm	CLr P.AL	No fault Plant alarm			
287	Unit shutdown	CLr Sh.dn	Normal operation Shutdown			
290	Group alarm 291-298	0 1 - 255	No alarms Check 91 - 98			
294	Expected defrosts have not been detected	CLr dEF.F	No fault Fault			

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10. DIAGNOSTIC & TEST FUNCTION						
6	Communications speed	Up to v0.00.1				
		4800 600	Baud rate Baud rate			
		v0.00.2 on				
		38.4 4.8	Kilobaud rate Kilobaud rate			
7	2/4 wire Communications choice (Half / Full duplex)	HALF FuLL	2 wire 4 wire		0 - 1	HALF
89	Thermistor excitation value (Factory test)		Not used			
71	Input status NOTE: If more than one input is present the numbers shown in brackets are added together and displayed instead of the text	d.in.1 (1) d.in.2 (2) iP.3 (4) iP.4 (8) P.in.1 (16) P.in.2 (32) iP.7 (64) iP.8 (128)	Defrost input 1 Defrost input 2 Spare input 3 Spare input 4 Plant input 1 Plant input 2 Spare input 7 Spare input 8			
21	Air on temperature Channel 1					
22	Air off temperature Channel 1					
23	Air on temperature Channel 2					
24	Air off temperature Channel 2					
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			