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JTL REFRIGERATION TEMPERATURE MONITOR ITEM NUMBERS					CR110 TANT		
ITEM	DESCRIPTION		CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
					4321		
<b>1. Jnet NETWORK IDENTIFICATION</b>							
0	Unit type		(v0.00.0)				
			tAnt	Unit type			
			(v0.00.1 on)				
			CR11	Unit type			
19	Software version number						
110	Channel 1	selection	OFF Px.En	Disabled Enabled		0 - 1	Px.En
120	Channel 2						
130	Channel 3						
140	Channel 4						
111	Channel 1	unit no				0.0 - 899.9	
121	Channel 2						
131	Channel 3						
141	Channel 4						
<b>2. TEMPERATURE ALARM DATA</b>							
50	Period over which averages are taken					00:15 - 04:00	01:00
112	Channel 1	temperature					
122	Channel 2						
132	Channel 3						
142	Channel 4						
113	Channel 1	setpoint				-35 to +10	- 20
123	Channel 2						
133	Channel 3						
143	Channel 4						
114	Channel 1	over temperature alarm tolerance				0 to 25	10
124	Channel 2						
134	Channel 3						
144	Channel 4						
116	Channel 1	Average temperature error					
126	Channel 2						
136	Channel 3						
146	Channel 4						

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<b>3 MODES</b>								
117	Channel 1	Operating Mode	rEFr dEFr dF.rc Sh.dn	Refrigeration Defrost Defrost recovery Shutdown				
127	Channel 2							
137	Channel 3							
147	Channel 4							
<b>4 DEFROST DATA (V0.00.1)</b>								
65	Invert defrost inputs		no YES	Input=defrost No input=defrost		0 - 1	no	
45	Network initiated defrost		(Up to v0.00.2)					
			n.l.dF OFF	Enabled Disabled		0 - 1	OFF	
107	Defrost strategy selection		(v0.00.3)					
			0 1 2	0 nc.in iP.in	None Network initiated Input initiated		0 - 2	iP.in
			v0.00.4 on					
			0, 1 2, 3 4, 5 6	0 nc.in iP.in t.in	None Network initiated Input initiated Temperature initiated		0 - 6	iP.in
69	Number of defrosts expected per day		0 1 - 6	Disable alarm Alarm enabled		0 - 6	3	
210	Channel 1	Defrost time limit				00:15 - 01:00	00:30	
220	Channel 2							
230	Channel 3							
240	Channel 4							
211	Channel 1	Network defrost command status	P.deF F.deF 0	Pack on defrost Pack on forced defrost Pack not on defrost				
221	Channel 2							
231	Channel 3							
241	Channel 4							
217	Channel 1	Defrost initiation temperature (v0.00.4 on)				0.0 - 30.0	15.0	
227	Channel 2							
237	Channel 3							
247	Channel 4							

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ITEM NUMBERS**

**CR110  
TANT**

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213	Channel 1	Defrost input state	OFF on	Deenergised Emergised			
223	Channel 2						
233	Channel 3						
243	Channel 4						
216	Channel 1	duration of this defrost					
226	Channel 2						
236	Channel 3						
246	Channel 4						
214	Channel 1	duration of last defrost					
224	Channel 2						
234	Channel 3						
244	Channel 4						
215	Channel 1	Time since end of last defrost					
225	Channel 2						
235	Channel 3						
245	Channel 4						

JTL REFRIGERATION TEMPERATURE MONITOR ITEM NUMBERS					CR110 TANT	
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<b>5 INPUTS</b>						
65	Invert defrost inputs	no YES	Input=defrost No input=defrost		0 - 1	no
55	Invert plant inputs (v0.00.1 - v0.00.2)	no YES	Input=alarm No input=alarm		0 - 1	no
66	Invert plant inputs (v0.00.3 on)					
71	Input status (v0.00.2 on) 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) d.in.3 (4) d.in.4 (8) P.in.1 (16) P.in.2 (32) P.in.3 (64) P.in.4 (128)	Defrost input 1  Defrost input 2  Defrost input 3  Defrost input 4  Plant input 1  Plant input 2  Plant input 3  Plant input 4			
218	Channel 1	Plant alarm input (v0.00.1 on)	OFF on			
228	Channel 2					
238	Channel 3					
248	Channel 4					

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ITEM	DESCRIPTION		CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
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<b>6 Jnet COMMAND FUNCTIONS</b>							
62	Network controlled Shutdown selection		(v0.00.2 on)				
			OFF Sh.dn	Disabled Enabled		0 - 1	OFF
118	Channel 1	Network command for shutdown	run Sh.dn	Run Shutdown			
128	Channel 2						
138	Channel 3						
148	Channel 4						
<b>7 CLOCK CALENDAR</b>							
Note, from version 0.00.6. This product supports a pseudo clock which indicates the time on the JTL network. 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 (v0.00.6 on)		Stnd dAY.S	Standard time Daylight saving time		0 - 1	Stnd
<b>8 RESTORE FACTORY DEFAULTS</b>							
9	Set default values selected by Bitswitch		1234	Set default values			
			1066	(from version 0.00.6) Write to NVRAM without delay			

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<b>9 SYSTEM ALARMS</b>						
<b>9.1 COMMON ALARMS</b>						
80	Group alarm 81 - 88	0 1 - 255	No alarms Check 81 - 88			
85	Thermistor power supply fault	CLr PS.Ft	No fault Fault			
87	Unit number corrupted/not set	CLr Un.CF	No fault Fault			
88	All probes faulty, deselected or disconnected	CLr t.SEN	No fault Fault			
<b>9.2 CHANNEL ALARMS</b>						
119	Channel 1	Alarm status	0 Ht Lt P.Flt Sh.dn	No alarm High temperature Low temperature Probe fault Unit shutdown		
129	Channel 2					
139	Channel 3					
149	Channel 4					
219	Channel 1	Plant alarm (v0.00.1 on)	CLr P.AL	Clear Plant alarm		
229	Channel 2					
239	Channel 3					
249	Channel 4					
212	Channel 1	Expected defrosts have not been detected	CLr dEF.F	No fault Fault		
222	Channel 2					
232	Channel 3					
242	Channel 4					

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<b>10 DIAGNOSTIC &amp; TEST FUNCTIONS</b>						
6	Communications speed	(Up to v0.00.2)				
		4800 600	Baud rate Baud rate			
		(v0.00.3 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 set)		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.	(v0.00.2 on)				
		d.in.1 (1)	Defrost input 1			
		d.in.2 (2)	Defrost input 2			
		d.in.3 (4)	Defrost input 3			
		d.in.4 (8)	Defrost input 4			
		P.in.1 (16)	Plant input 1			
		P.in.2 (32)	Plant input 2			
		P.in.3 (64)	Plant input 3			
		P.in.4 (128)	Plant input 4			
		<b>PROCESSOR ALARMS</b>				
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			