

JTL COLDSTORE CONTROLLER ITEM NUMBERS					ECCT ECCK	
ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
0	Unit type	ECCT03 on (v0.00.3 on)				
		Ecct	Unit type			
1	Unit number				0.0 - 899.9	
2	Time of day				00:00 - 23:59	
3	Day of week	Upto ECCT03 (v0.00.3)				
					0 - 6 (0 = Sun)	
6	Communications speed	ECCT01 on (v0.00.1 on)				
		4800 600	Baud rate Baud rate			
8	Bitswitch Setting	ECCT03 on (v0.00.3 on)				
9	Set default values selected by Bitswitch				0 - 1	
PROCESSOR ALARMS						
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			
MISCELLANEOUS DATA						
19	Software Version number					
TEMPERATURES						
21	Air on temperature (Coldstore temperature)					
22	Air off temperature					
23	Evaporator temperature					
24	Suction line temperature					
25	Superheat (Evaporator temp - suction line temp)					

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AVERAGE ERRORS						
26	Average coldstore temperature error					
AUTOMATICALLY ADJUSTED SETPOINTS						
28	Current Air off temperature setpoint (calculated by controller)					
29	Current Evaporator temperature setpoint (calculated by controller)					
PRIMARY TEMPERATURE SETPOINTS						
30	Coldstore temperature (Air on) setpoint (target for item 21)			xxCC	-30 to -15	-26
				xxCO	-30 to -15	-20
				xxOC	-5 to +10	0
				xxOO	-5 to +10	+4
32	Overtemperature alarm tolerance			xxCC	0 - 20	10
				xxCO	0 - 20	10
				xxOC	0 - 20	5
				xxOO	0 - 20	10
DOOR INFORMATION						
33	Time door presently open	ECCT01 on (v0.00.1 on)				
34	Door open alarm delay time				00:00 - 00:30	00:15
35	Total time door has been open in last 24 hours	ECCT01 on (v0.00.1 on)				
PROBE SELECTION						
36	Air on probe selection	OFF A.O.En	Disabled Enabled		0 - 1	A.O.En
37	Air off probe selection	OFF A.F.En	Disabled Enabled		0 - 1	A.F.En
38	Evaporator probe selection	OFF E.P.En	Disabled Enabled		0 - 1	E.P.En
39	Suction line probe selection	OFF S.P.En	Disabled Enabled		0 - 1	S.P.En
DEFROST INFORMATION						
40	Duration of last defrost					
41	Time since end of last defrost					
42	Duration of current defrost					
43	Time next defrost is due					
44	Duration of last power down					

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MISCELLANEOUS SETTINGS						
47	Period over which averages are taken	ECCT04 on (v0.00.4 on)				
48	Max starts/per hour (Anti-shortcycling timer when using liquid valve relay to control a condensing unit)	ECCT04 on (v0.00.4 on)				
		0 10.PH 15.PH 20.PH	No limit 10 starts per hour 15 starts per hour 20 starts per hour	0 - 3	0	
DEFROST SETPOINTS						
50	Defrost termination temperature (evaporator probe)			xxCC xxCO xxOC xxOO	0 - 20 0 - 20 0 - 20 0 - 20	15 15 12 20
51	Defrost time 1	00:00 00:01-23:59	Defrost disabled Defrost enabled	xxCC xxCO xxOC xxOO	00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59	01:00 02:00 03:00 04:00
52	Defrost time 2	00:00 00:01-23:59	Defrost disabled Defrost enabled	xxCC xxCO xxOC xxOO	00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59	07:00 08:00 09:00 10:00
53	Defrost time 3	00:00 00:01-23:59	Defrost disabled Defrost enabled	xxCC xxCO xxOC xxOO	00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59	13:00 14:00 15:00 16:00
54	Defrost time 4	00:00 00:01-23:59	Defrost disabled Defrost enabled	xxCC xxCO xxOC xxOO	00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59	19:00 20:00 21:00 22:00
55	Defrost time 5	00:00 00:01-23:59	Defrost disabled Defrost enabled	xxCC xxCO xxOC xxOO	00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59	00:00 00:00 00:00 00:00
56	Defrost time 6	00:00 00:01-23:59	Defrost disabled Defrost enabled	xxCC xxCO xxOC xxOO	00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59	00:00 00:00 00:00 00:00
57	Defrost termination time limit			xxCC xxCO xxOC xxOO	00:10 - 00:40 00:10 - 00:40 00:10 - 01:00 00:10 - 01:00	00:20 00:20 00:20 00:40
59	Drain down time	ECCT04 on (v0.00.4 on)				
MISCELLANEOUS SETTINGS						
67	Isolate coldroom	ECCT04 on (v0.00.4 on)				
		run ISOL	Normal operation Isolated		0 - 1	run

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MODES, INPUTS AND OUTPUTS						
70	Operating mode	rEFr dEFr dr.dn dF.rc Pu.dn ISOL	Refrigeration Defrost Drain down Defrost recovery Pump down Isolated			
71	Door switch input	ECCT03 on (v0.00.3 on)				
		OFF dr.OP	Door closed Door switch contacts open			
72	Defrost relay	OFF dF.on	Contacts open Contacts closed			
73	Liquid solenoid relay	OFF LS.on	Off Demanding refrig.			
FORCING FUNCTIONS						
Forced functions remain forced if the Maintenance unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance unit is unplugged.						
77	Forced defrost	OFF Fd.on	Off Forced defrost		0 - 1	
78	Forced refrigeration	OFF Fr.on	Off Forced refrigeration		0 - 1	
79	External alarm input	ECCT04 on (v0.00.4 on)				
		AL.IP OFF	No alarm (contacts closed) Alarm present (contacts open)			
SYSTEM ALARMS						
80	Group alarm 81 - 88	0 1 - 255	No alarms Check 81 - 88			
81	Coldstore (Air on) overtemperature	Clr Ht	No fault Fault			
83	Air on probe fault	Clr AO.Pr	No fault Fault			
84	Air off probe fault	Clr AF.Pr	No fault Fault			
85	Thermistor power supply fault	Clr PS.Ft	No fault Fault			
86	Door open alarm	Clr dr.OP	No fault Fault			
87	Unit number corrupted/not set	Clr Un.CF	No fault Fault			
88	External alarm input	Clr AL.IP	No fault Fault			

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MISCELLANEOUS DATA						
89	Thermistor excitation value (Factory set)	ECCT02 on (v0.00.2 on)				
			Not used			
SYSTEM ALARMS						
90	Group alarm 91 - 98	0 1 - 255	No alarms Check 91 - 98			
92	Evaporator probe fault	CLr EP.Pr	No fault Fault			
93	Suction line probe fault	CLr SL.Pr	No fault Fault			
98	All probes faulty, deselected or disconnected	ECCT02 on (v0.00.2 on)				
		CLr t.SEn	No fault Fault			
UTILITY						
99	Test digital display	CLr SEt	Not active Test active		0 - 1	
PROBE SELECTION						
102	Probe type selection	ECCT03 on (v0.00.3 on)				
		5000 2000	Tempkey Elm		0 - 1	5000

BITSWITCH SETTINGS

4321
 xxCC Ice cream
 xxCO Frozen food
 xxOC Chillers
 xxOO Provisions

where C = CLOSED or ON
 O = OPEN or OFF
 x = Don't care

Note 1: For unmarked switches
 C = dot visible
 O = dot not visible

Note 2: Setting the bitswitches alone has no effect.
 Use ITEM 9 to set the default values after the switches are set.

DISPLAY DATA		ECCT ECCK
NORMAL DISPLAY		
-99°	Coldstore (Air on) temperature (item 21 rounded)	
dEF	Defrost	
dEFr	Defrost recovery	
--	Display data error	
ALARM TEXT (in descending priority order)		
t.SEn	All probes faulty, deselected or disconnected	
Ht	High coldstore (Air on) temperature	
door	Door open alarm	
OTHER TEXT		
JTL	Start-up text	