

JTL COLDSTORE CONTROLLER ITEM NUMBERS					ECCS ECCR	
ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
0	Unit type	ECCS04 on (v0.00.4 on)				
		ECCS Eccr	Unit type Unit type			
1	Unit number	ECCS00 (v0.00.0)				
					0.0 - 199.9	
		ECCS01 on (v0.00.1 on)				
					0.0 - 899.9	
6	Communications speed	ECCS03 on (v0.00.3 on)				
		4800 600	Baud rate Baud rate			
8	Bitswitch Setting	ECCS04 on (v0.00.4 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 -12	-26
				xxCO	-30 to -12	-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	Door open alarm delay time	ECCS02 on (v0.00.2 on)				
					00:00 - 00:30	00:15
34	Time door presently open	ECCS02 on (v0.00.2 on)				
35	Total time door has been open in last 24 hours	ECCS02 on (v0.00.2 on)				
PROBE SELECTION (ECCS01 on - v0.00.1 on)						
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

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DEFROST INFORMATION						
40	Duration of last defrost					
41	Time since end of last defrost					
42	Duration of current defrost					
45	Suction line or Comms initiated defrost selection	ECCS05-ECCS07 (v0.00.5 - 0.00.7)				
		CU.In	Comms unit initiated		0 - 1	CU.In
		SL.In	Suction line temp initiated			
		ECCS08 on (v0.00.8 on)				
		CU.In	Comms unit initiated		0 - 1	SL.In
		SL.In	Suction line temp initiated			
46	Comms unit initiated defrost command status	ECCS05 on (v0.00.5 on)				
		0 P.dEF F.dEF	No comms defrost Defrost command Forced defrost			
MISCELLANEOUS SETTINGS						
47	Period over which averages are taken	ECCS04 on (v0.00.4 on)				
					00:30 - 03:00	02:00
49	Liquid hold-off time	ECCS08 on (v0.00.8 on)				
					00:00 - 00:10	00:00

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DEFROST SETPOINTS						
50	Defrost termination temperature (evaporator probe)			xxCC xxCO xxOC xxOO	0 - 30 0 - 30 0 - 30 0 - 30	15 15 15 20
57	Defrost termination time limit			xxCC xxCO xxOC xxOO	00:10 - 00:30 00:10 - 00:30 00:10 - 01:00 00:10 - 01:00	00:20 00:20 00:20 00:40
58	Defrost initiation temperature (suction line probe)	ECCS00-ECCS03 (v0.00.0 - 0.00.3)				
				xxCC xxCO xxOC xxOO	-10 to +20 -10 to +20 +5 to +30 +5 to +30	10 10 15 15
		ECCS04 on (v0.00.4 on)				
				xxCC xxCO xxOC xxOO	-10 to +30 -10 to +30 +5 to +30 +5 to +30	10 10 15 15
		ECCS09 on (v0.00.9 on)				
		n.o n.c	normally open valve normally closed valve		0 - 1	n.c
69	Number of defrosts expected per day	ECCS08 on (v0.00.8 on)				
		0 1 - 6	Disable alarm 94 Alarm enabled	xxCC xxCO xxOC xxOO	0 - 6 0 - 6 0 - 6 0 - 6	3 3 3 0

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MODES, INPUTS AND OUTPUTS						
70	Operating mode	rEFr dEFr dr.dn Li.Ho dF.rc	Refrig. Defrost Drain down Liquid hold off Defrost recovery			
71	Door switch input	ECCS02 on (v0.00.2 on)				
		OFF dr.OP	Door closed Door switch contacts open			
72	Defrost relay	up to ECCS08 (up to v0.00.8)				
		OFF dO.on	Contacts open Contacts closed			
		ECCS09 on (v0.00.9 on)				
		0 dt.on dc.on	OFF Termination valve on Control output on			
73	Liquid solenoid relay	OFF LS.on	Off Demanding refig.			
74	Defrost input	ECCS04 on (v0.00.4 on)				
		OFF dF.IP	Defrost contacts open Defrost contacts closed			
75	Defrost relay mode selection	ECCS04-ECCS05 (v0.00.4 - 0.00.5)				
		GAS.d ELEC	Gas defrost Electric defrost		0 - 1	GAS.d
		ECCS06 on (v0.00.6 on)				
		d.tEr d.con	Defrost termination Defrost control		0 - 1	d.tEr
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 on		0 - 1	
78	Forced refrigeration	OFF no.dF	Off No defrosts		0 - 1	
79	Forced refrigeration	ECCS09 on (v0.00.9 on)				
		OFF Fr.on	Off Forced refrigeration		0 - 1	

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SYSTEM ALARMS						
80	Group alarm 81 - 88	0 1-255	No alarms Check 81 - 88			
81	Coldstore (Air on) overtemperature	Clr AO.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	ECCS02 on (v0.00.2 on)				
		Clr dr.OP	No fault Fault			
87	Unit number corrupted/not set	up to ECCS08 (up to v0.00.8 on)				
		Clr Un.CF	No fault Fault			
88	All probes faulty, deselected or disconnected	ECCS03 on (v0.00.3 on)				
		Clr t.SEn	No fault Fault			
MISCELLANEOUS DATA						
89	Thermistor excitation value (Factory set)	ECCS03 on (v0.00.3 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			
94	Expected defrosts have not been detected	ECCS08 on (v0.00.8 on)				
		Clr dEF.F	No fault Fault			
UTILITY						
99	Test digital display	Clr SEt	Not active Test active		0 - 1	

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COMPRESSOR PACK DATA						
100	Associated compressor pack number	ECCS00 (v0.00.0)				
					0 - 8	1
		ECCS01-ECCS04 (v0.00.1 - 0.00.4)				
					0 - 899.9	0
101	Air off setpoint for compressor pack					
PROBE SELECTION						
102	ECCS probe type selection	ECCS04 on (v0.00.4 on)				
		5000 2000	Tempkey Elm		0 - 1	5000
103	ECCR probe type selection	ECCR04 on (v0.00.4 on)				
		5000 2200	Tempkey CDK		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		ECCS ECCR
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	
SEtP	Coldstore setpoint data follows this text	
A.On	Air on temperature follows this text	
A.oFF	Air off temperature follows this text	
EVAP	Evaporator temperature follows this text	
Suct	Suction line temperature follows this text	
t.diF	Temperature difference (Superheat) follows this text	
L.dEF	Time since end of last defrost follows this text	