CONTENTS

JTL CABINET CONTROLLER ITEM NUMBERS					SDPN	
ITEM	**DESCRIPTION**	**CODE**	**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
1. Jnet NETWORK IDENTIFICATION						
0	Unit type	SdPn	Unit type			
19	Software version number					
1	Unit number				0.1 - 899.8	
2. TEMPERATURES Note: Temperatures can be displayed on the maintenance unit in degrees Celsius or Fahrenheit. The choice is made on item 122. All setpoint ranges in this document are shown in celsius.						
20	Estimated cabinet temperature (calculated from Air on and Air off temperatures)					
33	Cabinet temperature ratio (Item 20 calculated as value between Air off and Air on using this ratio)			0 (CC) 1 (CO) 2 (OC) 3 (OO)	20 - 80 20 - 80 0 - 80 0 - 80	50 50 40 60
21	Air on temperature					
36	Air on sensor selection	OFF AO.En	Disabled Enabled		0 - 1	AO.En
22 (405)	Air off temperature Note: The data shown here is calculated depending on the setting on item 408 and on the selection on item 37.					
37 (409)	Air off sensor selection	0 none 1 S 1 - - 2 S - 2 - 3 S - - 3 4 S 1 2 - 5 S 1 - 3 6 S - 2 3 7 S 1 2 3	none selected Sensor 1 Sensor 2 Sensor 3 Sensor 1 & 2 Sensor 1 & 3 Sensor 2 & 3 Sensor 1, 2 & 3		0 - 7	up to v0.007 S 1 2 3 from v0.00.8 S1- -
401	Air off 1 temperature					
402	Air off 2 temperature					
403	Air off 3 temperature					
408	Overall air off calculation method	0 none 1 Lo.rd 2 Nd.rd 3 Hi.rd 4 A.All 5 A.Lo 6 A.Hi	Lowest air off reading Middle air off reading Highest air off rdng Average air off Average of lowest 2 Average of highest 2		1 - 6	Nd.rd
23	Evaporator temperature (v0.00.1 on)					
38	Evaporator sensor selection (v0.00.1 on) Note, requires item 37 set to none or 1 only	OFF EP.En	Disabled Enabled		0 - 1	OFF
24	Suction line temperature (v0.00.1 on)					
39	Suction line sensor selection (v0.00.1 on) Note, requires item 37 set to none or 1 only	OFF SP.En	Disabled Enabled		0 - 1	OFF
141	Termination sensor temperature					

JTL CABINET CONTROLLER ITEM NUMBERS						SDPN	
ITEM	**DESCRIPTION**	**CODE**		**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
102	Temperature sensor type (v0.00.4 on)	0 1 2 3	5000 2000 2200 5000	JTL sensor (5 K) Elm sensor (2 K) CDK sensor (2 K2) JTL sensor (5 K)		0 - 3	5000
147	Termination sensor selection	OFF tS.En				0 - 1	OFF
247	Site temperature (from broadcast)						
248	Site humidity (from broadcast)						
246	Site absolute humidity (from broadcast) (from v0.00.6)						
122	Temperature display unit choice	CELS FAhr		Celsius Fahrenheit		0 - 1	CELS
3. TEMPERATURE ALARMS							
26	Average cabinet temperature error						
32	Cabinet overtemperature alarm tolerance	0.0		Disable Ht alarm	0 (CC) 1 (CO) 2 (OC) 3 (OO)	0 - 20 0 - 20 0 - 20 0 - 20	10 10 5 10
27	Average Air off temperature error						
34	Air off over temperature tolerance	0.0		Disable Ht alarm	0, 1 (CX) 2, 3 (OX)	0 - 30 0 - 30	15 10
431	Average air off temperature 1 error (v0.00.3 on)						
432	Average air off temperature 2 error (v0.00.3 on)						
433	Average air off temperature 3 error (v0.00.3 on)						
47	Period over which averages are taken				0, 1 (Cx) 2, 3 (Ox)	00:30 - 03:00	01:30 01:00

JTL CABINET CONTROLLER ITEM NUMBERS						SDPN	
ITEM	**DESCRIPTION**	**CODE**		**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
4. TEMPERATURE CONTROL							
275	Control temperature (from v0.00.8 on) Note: upto v0.00.7 control is on air off	1 2	A.oFF CAb.t	Air off Cabinet		0 - 1	Cab.t
30	Current cabinet temperature setpoint (target for item 20) (See items 123 & 127)						
123	Enable 2nd setpoint	oFF E.2SP		Disabled Enabled		0 - 1	oFF
124	Cabinet temperature setpoint - primary (target for item 20)				0 (CC) 1 (CO) 2 (OC) 3 (OO)	-30 to -15 -30 to -15 -5 to +10 -5 to +10	-20 -26 +1 +4
125	Alternative cabinet temperature setpoint - secondary Note: Always use this setpoint as the higher of the 2 setpoints.				0 (CC) 1 (CO) 2 (OC) 3 (OO)	-30 to -15 -30 to -15 0 to 10 0 to 10	-20 -26 5 10
126	Selected setpoint in operation	Lo Hi		Main setpoint (item 124) Alternative setpoint (item 125)		0 - 1	Lo
31 (407)	Air off setpoint (starting point and lower limit for item 28)				0 (CC) 1 (CO) 2 (OC) 3 (OO)	- 39 to -20 - 39 to -20 - 10 to +5 - 10 to +5	- 27 - 33 - 6 - 4
140	Temperature deadband					0.4 - 3.0	0.4
48	Max starts/hour (Anti-shortcycling timer when using liquid valve relay to control a condensing unit)	0 1 2 3	unLm 10.PH 15.PH 20.PH	Unlimited 10 starts per hour 15 starts per hour 20 starts per hour		0 - 3	unLm
28 (406)	Current Air off temperature setpoint (calculated by controller)						
240	Liquid line valve open percentage for last sample period (v0.00.1 on)						
241	Average liquid line valve open percentage over data logging interval period (v0.00.1 on)						

JTL CABINET CONTROLLER ITEM NUMBERS					SDPN	
ITEM	**DESCRIPTION**	**CODE**	**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
5. INPUTS & OUTPUTS						
70	Operating mode	rEFr dEFr dF.rc dr.dn Li.Ho Pu.dn Sh.dn	Refrigeration Defrost Defrost recovery Drain down Liquid hold off Pump down Shutdown			
71	Defrost input	oFF dF.iP	Input off Input on			
65	Invert defrost input	no YES	Input=defrost No input=defrost		0 - 1	no
72	Defrost relay	oFF dc.on	Relay deenergised Defrost control on			
68	Defrost relay type (v0.00.4 on)	n.o n.c	normally open normally closed		0 - 1	n.o
73	Liquid solenoid relay	OFF LS.on	Off Demanding refrig.			
75	Defrost relay mode selection	d.tEr d.Con	Defrost termination Defrost control		0 - 1	d.Con
118	Lighting contactor type selection (shown for lights-on state)	n.o n.c	normally open normally closed		0 - 1	n.c
6. SUCTION PRESSURE OPTIMISATION						
200	up to v0.00.4 Disable suction pressure optimisation for this unit when both air sensors are faulty from V0.00.5 Disable suction pressure optimisation for this unit . Note: Suction pressure optimisation is disabled when both air sensors are faulty regardless of this setting.	En.SO di.SO	Enable Disable		0 - 1	En.SO
201	Exclude evaporator from suction pressure optimisation (Data to network)	OFF in.SO	Off Inhibit from suction optimisation			
203	Related suction line from plant controls (Data from network)	0 or nonE Lt Ht SAt	Not selected Low temperature High temperature Satellite			
202	Raw network data for optimiser from plant (Binary data interpreted on item 203)					
211	Evaporator suction group - Required by Mark 2 optimisers (Data to network)	0 nonE 1 Lt 2 Ht 3 SAt	Not selected Low temperature High temperature Satellite		0 - 3	nonE
212	Operating mode	rEFr dEFr dF.rc dr.dn Li.Ho Pu.dn Sh.dn	Refrigeration Defrost Defrost recovery Drain down Liquid hold off Pump down Shutdown			

ITEM	DESCRIPTION	CODE		CODE MEANING	FACTORY DEFAULT	RANGE	ITEM 9 VALUE
217	Plant data to network (binary value interpreted on item 211)						
	7. DEFROST CONTROL						
	7.1 DATA & STRATEGIES						
40	Duration of last defrost						
41	Time since end of last defrost						
42	Duration of current defrost						
45	Legacy defrost strategy selection (v0.00.8 on)	0 1	l.107 SL.in	Use item 107 Suction initiated		0 - 1	l.107
107 (411)	Defrost strategy (Note, suction initiated added v0.00.4 on) Note from v0.00.8 this item is only available when item 107 is set to 0.	0 1 2 3 4 5 6 7 8 9	nonE SL.in n.i.L.b rt.in iP.in - - n.i.F.b c.d.L.b c.d.F.b	None Suction initiated Network initiated (learned backup) Internal clock initiated External clock initiated Not used Not used Network initiated (fixed schedule backup) Coordinated defrost (learned backup) Coordinated defrost (fixed schedule backup)		v0.00.0 0 - 7 v0.00.1 on 0 - 9	 nonE nonE
412	Current defrost initiation strategy in operation (v0.00.1 on)	nonE SL.in JnEt rt.in iP.in		None Suction initiated Jnet network initiated Internal clock initiated External clock initiated			
68	Defrost relay type (v0.00.4 on)	n.o n.c		normally open normally closed		0 - 1	n.o
69	No of defrosts required per day (Note, When the defrost strategy is set to coordinated defrost this item sets the number of defrosts a day that are required.)	0 1 - 12		Function disabled No of defrosts		0 - 12	3
61	Pump down duration					00:00 - 00:10	00:00

JTL CABINET CONTROLLER ITEM NUMBERS					SDPN	
ITEM	**DESCRIPTION**	**CODE**	**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
7.2 REAL TIME INITIATED DEFROST TIMES When a 12 hour schedule is selected (item 60) the defrosts repeat on a 12 hour cycle ie., if 08:00 is selected then a 2nd defrost occurs at 20:00 (and vice versa) Daylight saving operation. Time and defrost schedule can be automatically displayed as standard time or daylight saving (summer) time if desired. When daylight saving is operational the displayed schedule is automatically adjusted so that defrost still occur at the same "standard time".						
51	Defrost time 1	00:00 00:01 - 23:59	Defrost disabled Defrost enabled	0 (CC) 1 (CO) 2 (OC) 3 (OO)	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	0 (CC) 1 (CO) 2 (OC) 3 (OO)	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	0 (CC) 1 (CO) 2 (OC) 3 (OO)	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	0 (CC) 1 (CO) 2 (OC) 3 (OO)	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		00:00 - 23:59	00:00
56	Defrost time 6	00:00 00:01 - 23:59	Defrost disabled Defrost enabled		00:00 - 23:59	00:00
60	Defrost schedule selection	24 hr 12 hr	24 hour schedule 12 hour schedule		0 - 1	24 hr
43	Time next defrost is due					
7.3 SUCTION INITIATED DEFROST (v0.00.4 on)						
58	Defrost initiation temperature (suction line sensor)			0 (CC) 1 (CO) 2 (OC) 3 (OO)	-5 to +20 -5 to +20 0 - 20 0 - 20	0 0 +15 +10
7.4 CONTACT INITIATED DEFROST						
65	Invert defrost input	no YES	Input=defrost No input=defrost		0 - 1	no
7.5 Jnet NETWORK INITIATED DEFROST						
46	Jnet Network initiated defrost command status	P.dEF F.dEF nonE	Defrost Forced defrost No command			
261 to 272	Defrost schedule (12 times starting at item 261 through to 272)					

JTL CABINET CONTROLLER ITEM NUMBERS						SDPN	
ITEM	**DESCRIPTION**	**CODE**		**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
7.6 COORDINATED DEFROST INITIATION (v0.00.1 on)							
69	No of defrosts required per day (Note, When the defrost strategy is set to coordinated defrost this item sets the number of defrosts a day that are required.)	0 1 - 12		Function disabled No of defrosts		0 - 12	3
224	Time since the start of last defrost (v0.04.1 on)						
216	Defrost requirement to defrost coordinator						
223	Defrost requirement priority					1 - 8	1
211	Evaporator suction group	0 1 2 3	nonE Lt Ht SAt	Not selected Low temperature High temperature Satellite		0 - 3	nonE
214 (414)	Defrost heater choice	0 1 2 3 4 5 6	brn or rEd blac or YELL GrEY or bluE 3 - Ph GAS.2 GAS.3 oFF.C	Electric brown phase Electric black phase Electric Grey phase Electric 3 phase 2 pipe gas 3 pipe gas Off cycle		v0.00.0 0 - 3 v0.00.1 on 0 - 6	rEd or brn
213	Electric circuit choice (depends on item 214)	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	cct1 cct2 cct3 cct4 cct5 cct6 cct7 cct8 cct9 cc10 cc11 cc12 cc13 cc14 cc15	Circuit 1 Circuit 2 Circuit 3 Circuit 4 Circuit 5 Circuit 6 Circuit 7 Circuit 8 Circuit 9 Circuit 10 Circuit 11 Circuit 12 Circuit 13 Circuit 14 Circuit 15		v0.00.0 0 - 7 0 v0.00.1 to v0.00.7 1 - 7 cct1 v0.00.8 on 1 - 15 cct1	
210	Electrical distribution Panel No. (from v0.00.8)					0 - 15	0
215 (46)	Jnet network initiated defrost command status (repeats item 46)	P.dEF F.dEF nonE		Defrost Forced defrost No command			
217	Evaporator data to plant						
219	Jnet network defrost arrangement	nonE cord dEF.S PrEd		None Defrost co-ordinator present on network Timed defrost scheduler present on network Predict co-ordinator present on network			
220	Defrost coordinator status	oFF cord		No defrost coordinator Defrost coordinator present on network			

JTL CABINET CONTROLLER ITEM NUMBERS							SDPN
ITEM	**DESCRIPTION**	**CODE**		**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
7.7 DEFROST TERMINATION							
144 (413)	Termination method Selection	2 3 4	A.OFF tEr tot	Air off sensor Termination sensor Time only	0, 1 (Cx) 2 (OC)	2 - 4	EuAP
					3 (OO)	2 - 4	tot
141	Termination sensor temperature						
147	Termination sensor selection	OFF tS.En				0 - 1	OFF
50	Defrost termination temperature (the sensor used is selected on item 144)				0 (CC) 1 (CO) 2 (OC) 3 (OO)	0 - 20 0 - 20 0 - 20 0 - 20	15 15 12 20
145	Minimum defrost duration (Defrost heater cycles on termination temperature (item 50) as required during this time)					00:00 - 00:30	00:10
57	Maximum defrost duration				0 (CC) 1 (CO) 2 (OC) 3 (OO)	00:05 - 00:40 00:05 - 00:40 00:05 - 00:59 00:05 - 00:59	00:20 00:20 00:20 00:40
59	Drain down duration					00:00 - 00:10	00:05
49	Liquid hold off duration (starts when drain down completed)					00:00 - 00:10	00:00
7.8 DEFROST 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 (When item 107 is indicating Jnet network initiated defrost then forced defrost sends the command to the plant for action. It is NOT actioned locally)	OFF Fd.on		Off Forced defrost on		0 - 1	
78	Inhibit defrost	OFF no.dF		Off No defrosts		0 - 1	
79	Forced refrigeration	OFF Fr.on		Off Forced refrigeration		0 - 1	
222	Enable forced defrost requirement to defrost coordinator (v0.00.1 on)	oFF F.r.En		Disabled Enabled		0 - 1	0
221	Forced defrost requirement to defrost coordinator (requires item 222 set to 1) (v0.00.1 on)	0 - 63		Forced value			

JTL CABINET CONTROLLER ITEM NUMBERS					SDPN	
ITEM	**DESCRIPTION**	**CODE**	**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
8. Jnet NETWORK LIGHTING CONTROL Forced functions remain forced if the Maintenance Unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged.						
110	Select Jnet network lighting control	OFF LC.on	off Lighting control function selected		0 - 1	LC.on
113	Lights and blinds	on L.OFF	Lights on and blinds up Lights off and blinds down			
111	Jnet network lighting unit network command	LU.Co nonE	Lighting off command No command			
118	Lighting contactor type selection (shown for lights-on state)	n.o n.c	normally open normally closed		0 - 1	n.c
119	Lights off during shutdown selection	OFF En.L.S	Off Lights off during shutdown		0 - 1	Off
114	Force lights on	OFF L.on	Off Lights on		0 - 1	
115	Force lights off	OFF L.OFF	Off Lights off		0 - 1	
9. Jnet COMMAND FUNCTIONS						
62	Jnet network controlled Shutdown selection	oFF Sh.dn	Disabled Enabled		0 - 1	oFF
63	Jnet network command for shutdown	nonE Sh.dn	No command Shutdown			
134	Enable Jnet network command to cut off refrigeration in event of plant fault	Off	Disabled		0 - 1	Off
135	Display Jnet network commands	nonE O.S.df PL.Ft P.C.Ft	No command Other associated systems on defrost Plant fault Plant comms fault			
10. DISPLAY FUNCTIONS						
129	Display type selection (v0.00.4 on)	2 3 Lcd.1 Lcd.8	LCD1-7, 10, 12 types LCD8-9 type		up to v0.00.7 2 - 3 Lcd.8 from v0.00.8 2 - 3 lcd.1	
122	Temperature display unit choice	CELS FAhr	Celsius Fahrenheit		0 - 1	CELS
138	Enable Shutdown from display switches	OFF E.d.Sd	disable Enable		0 - 1	Off
121	Display switch status	Si - - Si1 - Si- 2 Si12	OFF Position 1 Position 2 Both			

JTL CABINET CONTROLLER ITEM NUMBERS						SDPN
ITEM	**DESCRIPTION**	**CODE**	**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
11. CLOCK CALENDAR 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
12. 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.						
966	Virtual bitswitch setting From version 0.01.3 the physical bitswitches have been replaced by virtual bitswitches. Set this item in place of using the bitswitches which are redundant.	0 1 2 3	Frozen food (C02) Frozen food Chiller Produce (off cycle)	0 1 2 3		
9	Set default values selected by Bitswitch Note: Setting the bitswitches alone has no effect.	1234	Set default values	0 (CC) 1 (CO) 2 (OC) 3 (OO)	Frozen food Ice cream Chiller Produce (off cycle) where C = CLOSED or ON O = OPEN or OFF x = Don't care For unmarked switches C = dot visible O = dot not visible	
		1066	Write to NVRAM without delay			
13. RESTORE PARAMETERS FROM NETWORK (from v0.00.8) To restore the data from the network first set the virtual bitswitch on item 966 and the appropriate unit number on item 1. Then check item 965 to see if this facility is available on the network. The information on item 965 is received from a network broadcast every few minutes. If the restore parameter facility is available and operational then item 965 will be set to a non zero number e.g. 2. To request restore parameters set item 964 to 1234. Item 963 displays parameters restore progress. When all parameters are downloaded item 964 is cleared to 0.						
965	Master database port	0 1 - 4	Not in use Nc port no			
964	Set restore parameters from network	1234				
963	Parameters restore progress	rdy dnl.r din.P dnl.c FA.IL	Restore function possible Restore requested Restore in progress Restore complete Restore fault			
959	Requested template	0 1-9999	As commissioned Template number		0 - 9999	

JTL CABINET CONTROLLER ITEM NUMBERS					SDPN	
ITEM	**DESCRIPTION**	**CODE**	**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
14. SYSTEM ALARMS						
80	Group alarm 81 - 88	0 1 - 255	No alarms Check 81 - 88			
81	Cabinet overtemperature	CLr C.Ht	No fault Fault			
82	Air off 1 overtemperature	CLr A.Ht	No fault Fault			
83	Air on sensor fault	CLr AO.Pr	No fault Fault			
84	Air off sensor fault	CLr AF.Pr	No fault Fault			
85	Sensor power supply fault	CLr PS.Ft	No fault Fault			
87	Shutdown alarm	CLr Sh.dn	No fault Fault			
88	All sensors faulty, deselected or disconnected	CLr t.SEn	No fault Fault			
90	Group alarm 91 - 98	0 1 - 255	No alarms Check 91 - 98			
91	Termination sensor fault	CLr dt.Pr	No fault Fault			
92	Evaporator sensor fault (v0.00.1 on)	CLr EP.Pr	No fault Fault			
93	Suction line sensor fault (v0.00.1 on)	CLr SL.Pr	No fault Fault			
94	Expected defrosts have not been detected	CLr dEF.F	No fault Fault			
250	Group alarms 251 - 258	0 1 - 255	No alarms Check 251 - 258			
251	Forced defrost activated	CLr F.dEF	No fault Forced defrost			
252	Network communications failure	CLr FAIL	No fault Comms failure			
253	Air off 2 overtemperature	CLr A2.Ht				
254	Air off 3 overtemperature	CLr A3.Ht				
255	Air off 1 sensor fault	CLr A1.Sn				
256	Air off 2 sensor fault	CLr A2.Sn				
257	Air off 3 sensor fault	CLr A3.Sn				
258	Backup defrost strategy in operation	CLr d.bAc	No fault Backup defrost			

JTL CABINET CONTROLLER ITEM NUMBERS						SDPN	
ITEM	**DESCRIPTION**		**CODE**	**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
15. DIAGNOSTIC & TEST FUNCTIONS							
44	Power off duration						
6	Communications speed (baud rate)		600 4.8 38.4	Baud Kilo baud Kilo baud			
7	Communications (Half duplex)		HALF	2 wire			
967	Latest unit no polled on zone (from v0.00.8)						
973	Latest polling interval This time shows the polling interval between the last two successful network awake messages to this unit.		min:sec				
974	Time since last awake message		min:sec				
975	Network receive timer Each time a message is read correctly the timer is set to 10 it counts down. If the timer reaches 0 then the communications module is reset.		seconds	(counts down to 0)			
976	Network receive bad character counter The counter counts down from a preset number. When the counter reaches 0 the communications module is reset.			(counts down to 0)			
977	Transmit control line status for the operation of the Jnet network communications.		Hi Lo	Transmit Receive			
8	Bitswitch setting		Fr.Fd (0) IcE.C (1) Chil (2) OFF.C (3)	Frozen food Ice cream Chiller Produce (off cycle)	0 (CC) 1 (CO) 2 (OC) 3 (OO)		
89	Sensor excitation value (factory test)						
99	Test digital display		CLr SEt	Not active Test active		0 - 1	
100	Test input		iP - - iP1 -	No input Input on			
101	Test output relays		Clr SEt	Not active Test active		0 - 1	
121	Display switch status		Si - - Si1 - Si- 2 Si12	OFF Position 1 Position 2 Both			
421	(v0.00.1 on)	Temperature sensor 1 reading					
422		Temperature sensor 2 reading					
423		Temperature sensor 3 reading					
424		Temperature sensor 4 reading					
425		Temperature sensor 5 reading					
222	Enable forced defrost requirement to defrost coordinator (v0.00.1 on)		oFF F.r.En	Disabled Enabled		0 - 1	0
221	Forced defrost requirement to defrost coordinator (requires item 222 set to 1) (v0.00.1 on)		0 - 63	Forced value			

JTL CABINET CONTROLLER ITEM NUMBERS						SDPN
ITEM	**DESCRIPTION**	**CODE**	**CODE MEANING**	**FACTORY DEFAULT**	**RANGE**	**ITEM 9 VALUE**
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			

DISPLAY DATA	SDPN
GRAPHICS DISPLAY	
	Defrost recovery
	Defrost
	Fault condition
NORMAL DISPLAY	
- 99^{c}	Cabinet temperature (item 20 rounded)
dEF	Defrost & defrost recovery (see Graphics above)
Off	Unit Shutdown mode
--	Display data error
ALARM TEXT (in descending priority order)	
SEn	All sensors faulty, deselected or disconnected
Ht	High cabinet or air off temperature
ISOL	Unit shutdown
OTHER TEXT	
jtl	Start-up text
Lo	Switched to primary setpoint
Hi	Switched to secondary setpoint