JTL PREDICT DEFROST CO-ORDINATOR ITEM NUMBERS	DP100 series DP200 series

CONTENTS

ITEM	DESCRIPTION	CODE		CODE MEANING	BIT 4321	RANGE	ITEM 9 VALUE
1. Jnet NETWORK IDENTIFICATION							
0	Unit type		Dp11 DP12 Dp14 Dp17 Dp21 Dp22 Dp24 Dp27	Unit type			
19	Software version number						
1	Unit number					0.1 - 899.8	
2 DEFROST CONTROL							
2.1 OVERALL SETUP							
70	Mode		None cord Pred	Disabled non-Predict Predict			
20	Strategy	0 1 2	None cord Pred	Disabled non-Predict Predict		0 - 2	Pred
30	Current number of evaporators on defrost						
32	Current predicted unit number						
21	Maximum no of evaporators allowed on defrost simultaneously					0 - 12	8
2.2 GAS DEFROST CONTROL							
31	Current number of evaporators on gas defrost						
22	Maximum no of evaporators on gas defrost allowed simultaneously					0 - 8	6
25	Maximum gas defrost duration (mins)					20 - 60	30
2.3 OFF CYCLE DEFROST CONTROL							
27	Maximum off cycle defrost duration (mins)					30 - 60	60

ITEM	DESCRIPTION	CODE	CODE MEANING	BIT 4321	RANGE	ITEM 9 VALUE
2.4 ELECTRIC DEFROST CONTROL
24	Maximum no of evaporators per circuit allowed on defrost simultaneously				0 - 4	4
23	Maximum no of evaporators per phase allowed to defrost simultaneously				0 - 4	4
26	Maximum electric defrost duration (mins)				20 - 60	40
2.4.1 RED PHASE INFORMATION
40	Current no of evaporators on red phase defrosting					
41	Current no of evaporators on red phase circuit 1 defrosting					
42	Current no of evaporators on red phase circuit 2 defrosting					
43	Current no of evaporators on red phase circuit 3 defrosting					
44	Current no of evaporators on red phase circuit 4 defrosting					
45	Current no of evaporators on red phase circuit 5 defrosting					
46	Current no of evaporators on red phase circuit 6 defrosting					
47	Current no of evaporators on red phase circuit 7 defrosting					

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2.4.2 YELLOW PHASE INFORMATION						
50	Current no of evaporators on yellow phase defrosting					
51	Current no of evaporators on yellow phase circuit 1 defrosting					
52	Current no of evaporators on yellow phase circuit 2 defrosting					
53	Current no of evaporators on yellow phase circuit 3 defrosting					
54	Current no of evaporators on yellow phase circuit 4 defrosting					
55	Current no of evaporators on yellow phase circuit 5 defrosting					
56	Current no of evaporators on yellow phase circuit 6 defrosting					
57	Current no of evaporators on yellow phase circuit 7 defrosting					
2.4.3 BLUE PHASE INFORMATION						
60	Current no of evaporators on blue phase defrosting					
61	Current no of evaporators on blue phase circuit 1 defrosting					
62	Current no of evaporators on blue phase circuit 2 defrosting					
63	Current no of evaporators on blue phase circuit 3 defrosting					
64	Current no of evaporators on blue phase circuit 4 defrosting					
65	Current no of evaporators on blue phase circuit 5 defrosting					
66	Current no of evaporators on blue phase circuit 6 defrosting					
67	Current no of evaporators on blue phase circuit 7 defrosting					

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colspan 7: **3. EVAPORATORS REQUIRING DEFROST (SORTED LIST)** The data from the evaporators appears in this sorted list. This comprises the top 10 of the list requiring a defrost. The data is in blocks of 10 items starting with item 100 - 106. The next evaporator is item 110 - 116 up to items 190 - 196.						
1x0	Evaporator unit number					
1x1	Evaporator suction group	nonE Lt Ht SAt	None LT HT Satellite			
1x2	Evaporator mode	nonE rEFr dEFr drdn Li.Ho dF.rc Pu.dn Sh.dn	None Refrigerating Defrost Drain down Liquid hold off Defrost recovery Pump down Shutdown			
1x3	Evaporator electrical circuit number	nonE cct1 cct2 cct3 cct4 cct4 cct6 cct7	None Circuit 1 Circuit 2 Circuit 3 Circuit 4 Circuit 5 Circuit 6 Circuit 7			
1x4	Defrost heater choice	rEd YELL bLuE 3-Ph GAS.2 GAS.3 oFF.C	Electric red phase Electric yellow phase Electric blue phase Electric 3 phase 2 pipe gas 3 pipe gas Off cycle			
1x6	Defrost requirement number					
**4. EVAPORATOR COMMON INFORMATION**						
200	Highest system number in use					
201	No of evaporators in use					
202	Current no of LT evaporators potentially requiring a defrost					
203	Current no of HT evaporators potentially requiring a defrost					
204	Current no of satellite evaporators potentially requiring a defrost					

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4.1 EVAPORATOR DATA The data from all the attached evaporators appears in the following data items. This data is unsorted and appears in the zone order of the network controller. The data is in blocks of 10 items starting at item 210 - 217 for the first associated evaporator the next evaporator is in items 220 - 227 up to the maximum of 72 evaporators on items 920 - 927						
xx0	Evaporator unit number					
xx6	Defrost requirement number					
xx1	Evaporator suction group (from evaporator)	Lt Ht SAt	LT HT Satellite			
xx2	Evaporator mode (current data from evaporator)	rEFr dEFr drdn Li.Ho Df.rc Pu.dn Sh.dn	Refrigerating Defrost Drain down Liquid hold off Defrost recovery Pump down Shut down			
xx3	Evaporator electricity circuit number	nonE cct1 cct2 cct3 cct4 cct4 cct6 cct7	None Circuit 1 Circuit 2 Circuit 3 Circuit 4 Circuit 5 Circuit 6 Circuit 7			
xx4	Evaporator electricity phase for defrost heaters	rEd YELL bLuE 3-Ph	Red Yellow Blue 3 phase			
xx5	Defrost command	rEFr dEF drdn F.dEF F.rEF d.inh FAIL	Refrigerating Defrost Drain down Forced defrost Forced refrigeration Defrost inhibit Interface fault			
xx7	Plant data (raw data as downloaded from network controller)					
5. DISPLAY FUNCTIONS						
33	Systems on defrost (repeats panel display)					
77	JTL numbering on systems on defrost display Note: Depends on unit no setting on item 1.	oFF J.no	System no. range 1- 48 System no. range x01 - x48		0 - 1	oFF

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colspan						

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6. 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
7. RESTORE FACTORY DEFAULTS						
9	Set default values To set the factory defaults into the memory of the controller, 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.	1234 1066	Load default settings Write to NVRAM immediately			
8. SYSTEM ALARMS						
80	Group alarm 81 - 88	0 1 - 255	No alarms Check 81 - 88			
82	Unit disabled	CLr P.dIS	No fault Disabled			
83	LT alarm	CLr Lt	No fault LT fault			
84	HT alarm	CLr Ht	No fault HT fault			
85	Satellite alarm	CLr St	No fault Satellite fault			
88	Unit number corrupted or not set	CLr Un.CF	Clear Fault			

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	9. DIAGNOSTIC & TEST FUNCTIONS					
6	JTL Network communications speed	4.8 38.4	Kilo Baud Kilo Baud			
7	Communications method	HALF	2 wire			
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		Unused			
99	Test digital displays	CLr SEt	Not active Test active		0 - 1	
72	Pushbutton inputs (Note more than 1 pushbutton can be shown simultaneously)	P1 - - P- 2 - P- - 3	Pbutton 1 pressed Pbutton 2 pressed Pbutton 3 pressed			
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	**DP100 series** **DP200 series**

NORMAL DISPLAY	
999.9	Next unit to go on defrost
–	Not selected
ALARM TEXT (in descending priority order)	
FAIL	JTL Network communications failure
oFF	Unit disabled
OTHER TEXT	
JTL	Start-up text
Func	Function mode
data	Data mode
Pr01	Highest priority unit requiring a defrost follows this text
Pr02	2nd highest priority unit requiring a defrost follows this text
Pr03	3rd highest priority unit requiring a defrost follows this text
Pr04	4th highest priority unit requiring a defrost follows this text
Pr05	5th highest priority unit requiring a defrost follows this text
Pr06	6th highest priority unit requiring a defrost follows this text
Pr07	7th highest priority unit requiring a defrost follows this text
Pr08	8th highest priority unit requiring a defrost follows this text
Pr09	9th highest priority unit requiring a defrost follows this text
Pr10	10th highest priority unit requiring a defrost follows this text