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JTL ITEM NUMBERS WATER - HEAT RECLAIM					FL330	
ITEM	DESCRIPTION	CODE	CODE MEANING	FACTORY DEFAULTS	RANGE	ITEM 9 VALUE
1. Jnet NETWORK IDENTIFICATION						
0	Unit type	FL33	Unit type			
19	Software version number					
41	Heat harvester function	0 1	S.Flo H.H.En	Flow monitor Heat harvester	0 - 1	H.H.En
1	Unit number				0.1 - 899.7	
2. TEMPERATURES						
Note: Temperatures can be displayed on the maintenance unit in degrees Celsius or Fahrenheit. The choice is made on item 9392. All setpoint ranges are shown in Celsius.						
21	Water out temperature					
22	Water in temperature					
44	Water temperature difference					
23	Refrigerant Gas In temperature					
24	Refrigerant Gas Out temperature					
25	Tank temperature					
27	Tank temperature alarm tolerance (from v0.00.2)	0	Alarm disabled		0 - 20	10
28	Alarm averaging period (mins) (from v0.00.2)				15 - 240	60
29	Average tank temperature error (from v0.00.2)					
9392	Temperature display unit choice	CELS FAhr	Celsius Fahrenheit		0 - 1	CELS
3. SENSOR SELECTION						
51	Water out sensor selection	OFF hot	Disabled Enabled		0 - 1	hot
52	Water in sensor selection	OFF SPy	Disabled Enabled		0 - 1	SPy
53	Refrigerant Gas In sensor section	OFF G.I.1.E	Disabled Enabled		0 - 1	G.I.1.E
54	Refrigerant Gas Out sensor selection	OFF G.O.1.E	Disabled Enabled		0 - 1	G.O.1.E
55	Tank sensor selection	OFF t1.En	Disabled Enabled		0 - 1	t1.En
4. SITE TEMPERATURES & HUMIDITY						
897	Site temperature (from broadcast)					
898	Site relative humidity (from broadcast)					
896	Site absolute humidity (from broadcast)					
899	Outside temperature (from broadcast)					

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5. FLOW DATA						
31	Average flow rate over the last 15 minutes (litres/hour)					
32	Average flow rate over the last hour (litres/hour)					
33	Average flow rate over the last 24 hours (litres/hour)					
34	Total flow over the last 24 hours (litres)					
35	Flow in last minute (litres)					
40	Volume measured per pulse on IP2 (litres)				1 - 250	100.0
6. WATER HEATING						
20	Operating mode	oFF Auto	Manual Automatic			
45	Heat delivered (kW)					
46	Average heat delivered (kW) over the last 15 mins					
43	Pump flow at full speed (litres/hr)				100 - 2500	1000
150	Start pump temperature				50 - 65	60
151	Stop pump differential temperature				2 - 10	5
152	Pump speed filter time				0 - 5	3
153	Select water temperature for control	in.t out.t	Water in Water out		0 - 1	in.t
147	Pump flow (litres/hr)					
148	Average pump flow (litres/hr)					
140	Pump speed (%)					
141	Pump running	1.oFF 1.run	Stopped Running			
42	Force pump speed				0 - 100.0	
7. INPUTS & OUTPUTS						
70	Inputs (from v0.00.2)	Graphical	See display data			
71	Auto/Manual (IP)	OFF Auto	Manual Auto			
72	Pump healthy (IP2)	Pu.Ft Hty	Pump fault Healthy			
73	Activate heat reclaim (IP3)	oFF Ac.H.r	OFF Activate heat reclaim			
74	Flow pulse input (IP4)	OFF FLIP	Contacts open Contacts closed			
60	Outputs (from v0.00.2)	Graphical	See display data			
61	Run pump (LN/DQ1)	oFF run.P	OFF Run Pump			

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ITEM	DESCRIPTION	CODE	CODE MEANING	FACTORY DEFAULTS	RANGE	ITEM 9 VALUE
62	Energise heat reclaim valve (LNDQ2)	oFF En.H	OFF Energise valve			
63	Watchdog output (LN/DQ3)	OFF On	Watchdog fail Watchdog healthy			
8. DISPLAY FUNCTIONS						
9392	Temperature display unit choice	CELS FAhr	Celsius Fahrenheit		0 - 1	CELS
189	Backlight control	0 B.oFF 1 BL.on 2 BL.F.F 3 B.L.n.F	Backlight off Backlight on Backlight off, flashes for alarm Backlight on, flashes for alarm		0 - 3	
9. CLOCK CALENDER						
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				2019 - 2099	
18	Daylight saving enable				0 - 1	Stnd
10. RESTORE FACTORY DEFAULTS						
966	Virtual bitswitch setting	0				
9	Set default values selected by virtual bitswitch	1234	Set default values			
		1066	Write to NVRAM without delay			
11. RESTORE PARAMETERS FROM NETWORK						
To restore the data from the network first set 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 the parameter 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	Request restore			
963	Parameter restore progress	rdy dnl.r din.p dnl.c FAIL	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 ITEM NUMBERS WATER - HEAT RECLAIM

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ITEM	DESCRIPTION	CODE	CODE MEANING	FACTORY DEFAULTS	RANGE	ITEM 9 VALUE
12. SYSTEM ALARMS						
80	Group alarm 81 - 88	Graphical	See display data			
87	Plant failed	CLr P.FLd	No fault Fault			
90	Group alarms 91-98	Graphical	See display data			
91	Water out sensor fault	CLr hot.P	No fault Fault			
92	Water in sensor fault	CLr SPy.P	No fault Fault			
93	Refrigerant Gas in sensor fault (from v0.00.2)	CLr r.I.S.F	No fault Fault			
94	Refrigerant Gas out sensor fault (from v0.00.2)	CLr r.O.S.F	No fault Fault			
95	Pump fault (v0.00.4 on)	CLr Pu.Ft	No fault Fault			
96	Tank sensor fault (from v0.00.2)	CLr t.S.FL	No fault Fault			
97	Low tank temperature (from v0.00.2)	CLr Lo.t.t	No fault Fault			
98	Thermistor power supply fault	CLr PS.Ft	No fault Fault			
110	Group alarm 111 -118 (up to v0.00.1)	Graphical	See display data			
111	All sensors faulty, deselected or disconnected (up to v0.00.1)	CLr t.SEn	No fault Fault			
190	Group alarms 191-198 (up to v0.00.1)	Graphical	See display data			
191	Refrigerant Gas in sensor fault (up to v0.00.1)	CLr G.I.1.F	No fault Fault			
192	Refrigerant Gas out sensor fault (up to v0.00.1)	CLr G.O.1.F	No fault Fault			
196	Tank sensor fault (up to v0.00.1)	CLr t1.FL	No fault Fault			

JTL ITEM NUMBERS WATER - HEAT RECLAIM




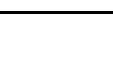
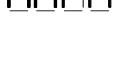



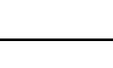
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ITEM	DESCRIPTION	CODE	CODE MEANING	FACTORY DEFAULTS	RANGE	ITEM 9 VALUE
13. DIAGNOSTIC & TEST FUNCTIONS						
6	JTL Network communications speed	4.8	Kilo Baud			
7	Communications method	HALF	2 wire			
954	Current Jnet zone number					
967	Latest unit no polled on zone					
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				
8	Bitswitch Setting					
89	Sensor excitation value (Factory test)		Not used			
99	Test digital displays	CLr SEt	Not active Test active		0 - 1	
100	Test inputs	Graphical	See display data			
199	Test output relays	CLr SEt	Not active Test active		0 - 1	
875	Phoenix CPU supply voltage (mV)					
876	Phoenix battery voltage (mV)					
877	Phoenix CPU temperature					
878	PIC identification number					
879	PIC firmware variation					
501	Temperature sensor 1 reading					
502	Temperature sensor 2 reading					
503	Temperature sensor 3 reading					
504	Temperature sensor 4 reading					
505	Temperature sensor 5 reading					
518	Temperature sensor open circuit indication	Graphical	See display data			
519	Temperature sensor short circuit indication					
10	Processor alarms (11 - 17)	Graphical	See display data			
16	Non volatile memory fault	CLr n.FLT	No fault Fault			

DISPLAY DATA		FL330
NORMAL DISPLAY		
99.9	Tank water temperature (from v0.00.2)	
-	Not selected	
ALARM TEXT (in descending priority order)		
P.FLd	Pump failed	
t.SEn	All sensors faulty	
hot	Water out sensor fault	
SPy	Water in sensor fault	
t.S.FL	Tank sensor fault	
OTHER TEXT		
JTL	Start-up text	

Graphical Display of Bit Data

Graphical display of bit data used on items where the data was shown previously as a decimal value.

Bit	Graphic	Value	Note
None		0	Where the data is shown as a decimal value the meaning is the sum of the associated value. e.g. Bits 2 and 5 set would be displayed as 18 (16+2)
1		1	
2		2	
3		4	
4		8	
5		16	
6		32	
7		64	
8		128	