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JTL STEP CONTROLLER ITEM NUMBERS (JTL Jnet PROTOCOL)					CF110	
ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
1. Jnet NETWORK IDENTIFICATION						
0	Unit type	CF11	Unit type			
19	Firmware version number					
1	Unit number				0.1 - 899.8	
2. CONTROL PARAMETERS						
31	Number of steps				0 - 5	0
32	Increase delay time (sec)				0 - 240	0
33	Decrease delay time (sec)				0 - 240	0
3. CONTROL INFORMATION						
41	Current delay until increase (sec)					
42	Current delay until decrease (sec)					
43	Number of steps running (outputs energised)					
44	Number of steps reported running (confirmation inputs present)					
4. MODE & APPLICATION ALARMS						
70	Operating mode	1 2 4 8	Manual (Auto off) In deadband Increase required Decrease required			
80	Pump alarms NOTE: If more than one present, the numbers shown are added together and the total displayed	0 1 2 4 8 16 32	No alarms Critical alarm present Step 1 fault Step 2 fault Step 3 fault Step 4 fault Step 5 fault			
90	Status alarms	0 1	No alarms Auto input not present			

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				4321		
5. INPUTS & OUTPUTS						
Physical & logical inputs are normally the same except when inputs are forced. In this case the physical inputs report inputs that are physically present, and the logical inputs report the forced input value.						
Physical & logical outputs are normally the same except when outputs are forced. In this case the physical outputs report the outputs forced value (ie, which relays are actually turned on) and the logical outputs reports the unforced command state.						
Note: If more than one input is present, the numbers shown in brackets are added together and displayed instead.						
100	Input status (Physical)	1 2 4 8 16 32	Input 1 - Step 1 run Input 2 - Step 2 run Input 3 - Step 3 run Input 4 - Step 4 run Input 5 - Step 5 run			
71	Input status (Logical)	64 128	Input 6 - Demand increase Input 7 - Demand decrease Input 8 - Auto			
73	Output status (Physical)	1 2 4 8 16 32	Output 1 - Run step 1 Output 2 - Run step 2 Output 3 - Run step 3 Output 4 - Run step 4 Output 5 - Run step 5			
72	Output status (Logical)	64	Output 6 - Cascade increase Output 7 - Cascade decrease			
6. RESTORE FACTORY DEFAULTS						
9	Set default values	1234	Load default settings			
7. DIAGNOSTIC & TEST FUNCTIONS						
Forced functions remain forced if the Maintenance Unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged.						
101	Test outputs	0 1	Normal operation Test in progress		0 - 1	
78	Force inputs (See item 71)	0 1 - 255	Not forced Force inputs to set value		0 - 255	
79	Force outputs (See item 73)	0 1 - 127 128	Not forced Force outputs to set value All outputs off		0 - 128	
10	Processor Alarms	0 32	No alarms NVRAM fault			