



















**CONTENTS**

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JTL PLANT INTERFACE ITEM NUMBERS					IF31	
ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
<b>1. NETWORK IDENTIFICATION</b>						
*JTL plant protocol only (Item 37 = J.PL.1 or J.PL.2)						
0	Unit type	IF31	Unit type			
19	Firmware version number					
31	Primary interface type * NOTE: Interface type must be configured according to intended function; (see user guide)	3	Compressor control (step)		0 - 15	
		4	Condenser and defrost control			
		5	Condenser cascade			
30	Primary interface number * (See User Guide)	0	Condenser control ( item 31=4)		0 - 254	
		1 - 9	Compressor/defrost boards			
	Modbus Device Address	1 - 254	Modbus Device Address			
41	Secondary interface type * Not used for modbus	3	Compressor			
		5	Condenser			
40	Secondary interface number * Not used for modbus	0 2	Condenser Compressor			
<b>2. INTERFACE PARAMETERS</b>						
*JTL plant protocol only (Item 37 = J.PL.1 or J.PL.2)						
37	Communication Protocol/configuration	0	b.ASC	Modbus ASCII protocol	uptoV1.00.2	0
		1	J.PL.1	JTL plant protocol standard operation	0 - 2	
		2	J.PL.2	JTL plant protocol auxiliary relay 8 enable	v1.00.3 on	
		3	b.rtu	Modbus RTU protocol	0 - 3	
34	Operating mode *	0	v1.00.2 on	Basic Single multi staged compressor (non xPLT) Multiple single staged compressors (xPLT)	0 - 2	0
		1	LEG			
		2	CP:n			
36	Communication speed	1	v1.00.2 on	1200 baud 2400 baud 4800 baud 9600 baud 19200 baud	1 - 5	1
		2	1.2			
		3	2.4			
		4	4.8			
		5	9.6			

JTL PLANT INTERFACE ITEM NUMBERS					IF31		
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<b>3. INPUTS &amp; OUTPUTS</b>							
Note: If more than one input is present, the numbers shown are added together and displayed instead.							
32	Backup for outputs 1 - 7 (JTL Plant Protocol)	0 1 2 4 8	All outputs off Output 1 Output 2 Output 3 Output 4 Output 5 Output 6 Output 7 Output 8		0 - 255	0	
	Backup for outputs 1 - 8 (Modbus Protocol)	16 32 64 128					
33	Backup for output 8 Secondary interface for output 8 only (JTL Plant Protocol)	0 1	Output 8 off Output 8 on		0 - 1	0	
61	Outputs		V1.00.2 on				
		0					No relays energised
		1					Relays 1 - 8 energised
		2					
		4					
		8					
		16					
		32					
		64					
		128					
62	Inputs		V1.00.2 on				
		0					No inputs energised
		1					Inputs 1 - 8 energised
		2					
		4					
		8					
		16					
		32					
		64					
		128					

JTL PLANT INTERFACE ITEM NUMBERS					IF31	
ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
<b>4. RESTORE FACTORY DEFAULTS</b>						
9	Set default values	1234	Load default settings			
<b>5. DIAGNOSTIC &amp; TEST FUNCTIONS</b>						
Physical and 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 and 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.						
Forced functions remain forced whilst the Maintenance Units plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged.						
*JTL plant protocol only (Item 37 = J.PL.1 or J.PL.2)						
100	Input status (Physical)	1 2 4 8	Input 1 Input 2 Input 3 Input 4			
71	Input status (Logical)	16 32 64 128	Input 5 Input 6 Input 7 Input 8			
73	Output status (physical)	1 2 4 8	Output 1 Output 2 Output 3 Output 4			
72	Output status (Logical)	16 32 64	Output 5 Output 6 Output 7			
101	Test outputs	0 1	Normal operation Test in progress		0 - 1	
81	Channel 1 command * (received from plant controller)	0 - 127				
82	Channel 1 relay * (sent to plant controller)	0 - 255				
83	Channel 2 command * (received from plant controller)	0 - 127				
84	Channel 2 relay * (sent to plant controller)	0 - 255				
78	Force inputs (See item 100)	0 1 - 255	Not forced Force inputs to read value		0 - 255	
79	Force outputs (See item 73)	0 1 - 255	Not forced Force outputs to read value		0 - 255	
10	Processor Alarms	0 32	No Alarms NVRAM fault			