## **JTL PLANT INTERFACE ITEM NUMBERS**

**IF67** 

## **CONTENTS**

1.	NETWORK IDENTIFICATION	1
	1.1 LEGACY NETWORK IDENTIFICATION	1
2.	INTERFACE PARAMETERS	1
3.	INPUTS & OUTPUTS	2
	3.1 LEGACY OUTPUT DATA	2
4.	RESTORE FACTORY DEFAULTS	3
5.	DIAGNOSTIC & TEST FUNCTIONS	3
	5.1 LEGACY DIAGNOSTIC & TEST FUNCTIONS	4

JTL PLANT INTERFACE ITEM NUMBERS									
ITEM	DESCRIPTION	СС	DE	CODE MEANING	віт	RANGE	ITEM		
					4321		9 VALUE		
1. NETWORK IDENTIFICATION									
0	Unit type	IF6	7	Unit type					
19	Firmware version number								
30	Modbus device address (see user guide)	1-2	254	Modbus address (0=invalid)		0 - 254			
	1. 1 Note: These item numbers are only relevant for			RK IDENTIFICATION Dus) with older JTL Controllers (Item 37	J.PL 1 or J.Pl	2) see userg	uide.		
31	Channel 1 interface type NOTE: Interface type must be configured according to intended function; (see user guide)	4 7		Condenser and defrost control Compressor control with analogue output		0 - 15			
30	Channel 1 interface number (see user guide)	0		Condenser control (item 31=4) Compressor boards		0 - 254			
41	Channel 2 secondary interface type (see user guide)	4 7		Condenser and defrost control Compressor control with analogue output		0 - 15			
40	Channel 2 secondary interface number (see user guide)	0		Condenser control (item 41=4) Compressor boards		0 - 9			
		2.	INTERFACE	PARAMETERS					
37	Communication protocol		b.ASC J.PL.1 J.PL.2 b.rtu	Modbus ASCII JTL plant zone - channel 1 only JTL plant zone - channel 1 & 2 Modbus RTU		0 - 3	3		
36	Communication speed	1 2 3 4 5	1.2 2.4 4.8 9.6 19.2	1200 baud 2400 baud 4800 baud 9600 baud 19200 baud		1 - 5	4		

JTL PLANT INTERFACE ITEM NUMBERS IF67									
ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM			
				4321		9 VALUE			
Where	3. INPUTS & OUTPUTS  Where segment patterns are shown, the vertical segments of the LCD display are used to represent visually the states of the inputs or outputs.  Input/Output 1 is always on the right. Low segments mean denergised high segments mean energised.								
32	Channel 1 analogue output backup	0 - 100	%		0 - 100	0			
33	Channel 2 analogue output backup	0 - 100	%		0 - 100	0			
35	Relay state during backup Binary sum of energised. Example: To energise relays 1 & 4 during backup set value of 9.	0 - 15	Relay 1=1 Relay 2=2 Relay 3=4 Relay 4=8		0 - 15	0			
61	Outputs	0							
444	Channal 4 tamparatura	2	Tomporeture in degrees C						
111 121	Channel 1 temperature  Channel 2 temperature	-45.0 to +150.0 -45.0 to +150.0	Temperature in degrees C Temperature in degrees C	<del> </del>					
131	Channel 3 temperature	-45.0 to +150.0	Temperature in degrees C						
141	Channel 4 temperature	-45.0 to +150.0	Temperature in degrees C						
151	Channel 5 temperature	-45.0 to +150.0	Temperature in degrees C						
161	Channel 6 temperature	-45.0 to +150.0	Temperature in degrees C						
171	Channel 7 temperature	-45.0 to +150.0	Temperature in degrees C						
	'	3.1 LEGACY O		1	1				
34	Number of steps for analogue output to be 100%	99 - 127	Number of steps for 100% of output		99 - 127	99			
38	Channel 1 secondary relay switch off threshold	0 - 100	% of full analogue output		0 - 100	0			
39	Channel 1 secondary relay switch on threshold	0 - 100	% of full analogue output		0 - 100	80			
48	Channel 2 secondary relay switch off threshold	0 - 100	% of full analogue output		0 - 100	0			

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM			
				4321		9 VALUE			
49	Channel 2 secondary relay switch on threshold	0 - 100	% of full analogue output		0 - 100	80			
4. RESTORE FACTORY DEFAULTS									
9	Set default values	1234	Load default settings						

## **5. 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.

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.

Note: If more than one input or output is present the numbers in brackets are added and displayed instead.

	Treater in Tribite and it enterin pare of each		1		
100	Input status (Physical)		Segment pattern as Item 62		
71	Input status (Logical)				
73	Relay output status (Physical)		Segment pattern as		
72	Relay output status (Logical)		Item 61		
101	Test relay outputs	0 1	Normal operation Test in progress	0 - 1	
78	Force inputs (See item 100)	0 1 - 15	Not forced Force inputs to read value	0 - 15	
79	Force relay outputs (See item 73)	0 1 - 15 128	Not forced Force outputs to read value All outputs off	0 - 128	
10	Processor Alarms	0 32	No alarms NVRAM fault		
51	Channel 1 DAC data	0 - 4095	DAC raw value		
52	Channel 2 DAC data	0 - 4095	DAC raw value		
53	Channel 1 Analogue output	0 - 100.0	% of full analogue output	0 -100.0	
54	Channel 1 Analogue output	0 - 100.0	% of full analogue output	0 -100.0	
21	Channel 1 Raw ADC Value	0 - 4095			
22	Channel 2 Raw ADC Value	0 - 4095			
23	Channel 3 Raw ADC Value	0 - 4095			
24	Channel 4 Raw ADC Value	0 - 4095			
25	Channel 5 Raw ADC Value	0 - 4095			
26	Channel 6 Raw ADC Value	0 - 4095			
27	Channel 7 Raw ADC Value	0 - 4095			

	IF67					
ITEM	DESCRIPTION	CODE	CODE MEANING	ВІТ	RANGE	ITEM
				4321		9 VALUE
	5. LEGACY	NETWORK DIAG	NOSTIC & TEST FUNCTIONS			
81	Channel 1 command JTL Plant Zone Protocol (received from plant controller)	0 - 127				
82	Channel 1 relay JTL Plant Zone Protocol (sent to plant controller)	0 - 255				
83	Channel 2 command JTL Plant Zone Protocol (received from plant controller)	0 - 127				
84	Channel 2 relay JTL Plant Zone Protocol (sent to plant controller)	0 - 255				