JTL KILOWATT HOUR MONITOR ITEM NUMBERS

PR210/PR211
PR220/PR221
PR222

CONTENTS

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT 4321	RANGE	ITEM 9 VALUE
1. Jnet NETWORK IDENTIFICATION						
0	Unit type	Pr21/Pr22	Unit type			
19	Software version Number					
1	Unit number (channel 1)				0.1 - 899.9	
20 (1)	Unit number (meter 1)				0.1 - 899.9	
30	Unit number (meter 2)				0.1 - 899.9	
2. ENERGY USAGE (kWh)						
2.1 METER 1						
28	kWh per meter output pulse	0.00	Meter disabled		0.00 - 25.00	0.1
25	kWh usage over last minute					
27	Total kWh (most significant 4 digits, 0000xxx.x - 9999xxx.x)					
26	Total kWh (least significant 4 digits, xxxx000.0 - xxxx999.9)					
24	Total kWh usage over the last 24 hours					
2.2 METER 2						
38	kWh meter output pulse	0.00	Meter disabled		0.00 - 25.00	
35	kWh usage over last minute					
37	Total kWh (most significant 4 digits, 0000xxx.x - 9999xxx.x)					
36	Total kWh (least significant 4 digits, xxxx000.0 - xxxx999.9)					
34	Total kWh usage over the last 24 hours					
3. POWER USAGE (kW)						
3.1 METER 1						
21	Average kW over the last 15 minutes					
22	Average kW over the last hour					
23	Average kW over the last 24 hours					
3.2 METER 2						
31	Average kW over the last 15 minutes					
32	Average kW over the last hour					
33	Average kW over the last 24 hours					
4. INPUTS						

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60	Meter 1 pulse input (IP1)	OFF IP1		Contacts open Contacts closed			
61	Meter 2 pulse input (IP2)	OFF IP2		Contacts open Contacts closed			
5. DISPLAY FUNCTIONS (from v0.007)							
79	Display backlight control	0 1	b.off bL.on	Backlight on		0 - 1	b.off
6. CLOCK/CALENDAR FUNCTIONS 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					2013 - 2034	
18	Daylight saving enable	Stnd dAY.S		Standard time Daylight saving time		0 - 1	Stnd
7. RESTORE FACTORY DEFAULTS To set the factory defaults into the memory of the controller, first set the virtual bitswitch as shown, then 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.							
966	Virtual bitswitch setting	0					
9	Set default values	1234 1066		Load default settings Write to Nvram immediately			

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8. RESTORE PARAMETERS FROM NETWORK (from v0.00.6) To restore the data from the network first set the virtual bitswitch on item 966 and the 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 parameters 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	
9. SYSTEM ALARMS						
80	Group alarm 81-88	Graphical	See display data			
81	Unit number corrupted/not set	CLr Un.CF	No fault Fault			
10. DIAGNOSTIC & TEST FUNCTIONS						
6	Communications speed	4.8	Kilo baud rate			
7	Communications	HALF	2 wire			
967	Latest unit no polled on zone (from v0.00.4)					
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)			

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977	Transmit control line status for the operation of the Jnet network communications.	Hi Lo	Transmit Receive			
99	Test digital display	Clr SEt	Not active Active			
71 (100)	Input status	IP1- IP-2	Input 1 Input 2			
72	Output status (not PR210 or PR221)	oP1- oP-2	Output 1 Output 2			
10	Processor alarms (11-17)	Graphical	See display data			
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			

Graphical Display of Bit Data (from v0.00.7)

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

Bit	Graphic	Value
None		0
1		1
2		2
3		4
4		8
5		16
6		32
7		64
8		128

Note
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)