

JTL TEKTRONIKS TEMPERATURE INTERFACE ITEM NUMBERS

RL25X

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JTL TEKTRONIKS TEMPERATURE INTERFACE ITEM NUMBERS				RL25X	
ITEM	DESCRIPTION	CODE	CODE MEANING	RANGE	ITEM 9 VALUE
1. Jnet NETWORK IDENTIFICATION					
0	Unit type	r250 r255	Unit type		
19	Software Version number				
1.1 UNIT NUMBERS					
211	Channel 1			0 - 899.7	
221	Channel 2				
231	Channel 3				
241	Channel 4				
251	Channel 5				
261	Channel 6				
271	Channel 7				
281	Channel 8				
291	Channel 9				
301	Channel 10				
311	Channel 11				
321	Channel 12				
331	Channel 13				
341	Channel 14				
351	Channel 15				
361	Channel 16				
371	Channel 17				
381	Channel 18				
391	Channel 19				
401	Channel 20				
411	Channel 21				
421	Channel 22				
431	Channel 23				
441	Channel 24				
451	Channel 25				
461	Channel 26				
471	Channel 27				
481	Channel 28				
491	Channel 29				
501	Channel 30				
511	Channel 31				

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ITEM	DESCRIPTION	CODE	CODE MEANING	RANGE	ITEM 9 VALUE
2. TEMPERATURES AFTER OFFSET ADJUSTMENT The temperature shown on the channels are adjusted from the temperatures recorded by the wireless monitors.					
101	Channel 1				
102	Channel 2				
103	Channel 3				
104	Channel 4				
105	Channel 5				
106	Channel 6				
107	Channel 7				
108	Channel 8				
109	Channel 9				
110	Channel 10				
111	Channel 11				
112	Channel 12				
113	Channel 13				
114	Channel 14				
115	Channel 15				
116	Channel 16				
117	Channel 17				
118	Channel 18				
119	Channel 19				
120	Channel 20				
121	Channel 21				
122	Channel 22				
123	Channel 23				
124	Channel 24				
125	Channel 25				
126	Channel 26				
127	Channel 27				
128	Channel 28				
129	Channel 29				
130	Channel 30				
131	Channel 31				

JTL TEKTRONIKS TEMPERATURE INTERFACE ITEM NUMBERS					RL25X	
ITEM	DESCRIPTION	CODE		CODE MEANING	RANGE	ITEM 9 VALUE
3. CHANNEL TEMPERATURE DATA & ALARMS A general form of item numbers is shown below. The "x" shown in each item number should be replaced by the channel number (1 - 9). This sequence covers item numbers 210-299. For channels 10 - 19 the item nos are 300 - 399. For channels 20 - 29 the item nos are 400 - 499. For channels 30 & 31 item nos are 500 - 519.						
2x0 3x0 4x0 5x0	Channel Selection Sensor selection added from v0.00.4	0 1 3 5	OFF on A.O ff A.O n	Channel off Channer on Channel Air off Channel Air on	up to v0.00.3 0 - 1 from v0.00.4 0 - 5	oFF
2x7 3x7 4x7 5x7	Mode	0 rdy t.C.FL		Unknown Ready Communication fault		
2x3 3x3 4x3 5x3	Setpoint				-50.0 to 50.0	-10.0
2x2 3x2 4x2 5x2	Temperature					
14x 15x 16x 17x	Temperature offset (from v0.00.4)				-5 to +5	0.0
2x4 3x4 4x4 5x4	Average temperature					
2x5 3x5 4x5 5x5	Period over which averages taken				00:02 - 04:00	01:00
2x8 3x8 4x8 5x8	Over temperature tolerance				0.0 to 99.9	10.0
2x9 3x9 4x9 5x9	Under temperature tolerance				0.0 to -99.9	-10.0
2x6 3x6 4x6 5x6	Alarm state	nonE t.C.FL t.AL Ht Lt S.O.C S.S.C S.FLt		No fault Sensors comms fault Sensor alarm High temperature Low temperature Sensor open current Sensor short current Sensor fault current		

JTL TEKTRONIKS TEMPERATURE INTERFACE ITEM NUMBERS				RL25X	
ITEM	DESCRIPTION	CODE	CODE MEANING	RANGE	ITEM 9 VALUE
4. SENSOR DATA & ALARMS A general form of item numbers is shown below. The "x" shown in each item number should be replaced by the channel number (1 - 9). This sequence covers item numbers 610-699. For channels 10 - 19 the item nos are 700 - 799. For channels 20 - 29 the item nos are 800 - 899. For channels 30 & 31 item nos are 900 - 919.					
6x2 7x2 8x2 9x2	Sensor no (i.e. 99xxxxxxx) Most significant digits				
6x3 7x3 8x3 9x3	Sensor no (i.e. xx9999xxx) Mid significant digits				
6x4 7x4 8x4 9x4	Sensor no (i.e. xxxxxx9999) Least significant digits				
6x5 7x5 8x5 9x5	Battery status	b.Hty b.Lo b.Crt	Healthy Warning level Critical level		
6x6 7x6 8x6 9x6	Battery used				
6x9 7x9 8x9 9x9	Sensor status	strt rdy t.C.FL t.AL	Warm up Ready (ok) Comms fault Sensor alarm		
6x0 7x0 8x0 9x0	Device No			1 - 99	
5. MODBUS COMMUNICATIONS (RL255 ONLY)					
38	Modbus hardware type (V0.00.6 on)	232	RS232		
39	Interface baud rate	115.2	115200 Baud		
34	Delay between modbus requests (secs)			0 - 5	0
35	Delay before modbus retry requests (secs)			2 - 5	2
6. DISPLAY FUNCTIONS					
178	Temperature display unit choice	CELS FAhr	Celsius Fahrenheit		
189	Backlight control	0 1 23	B.O FF BL. on BL.F .F BL. n.F	Backlight off Backlight on Backlight off, flashes for alarm Backlight on, flashes for alarm	B.off

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ITEM	DESCRIPTION	CODE	CODE MEANING	RANGE	ITEM 9 VALUE
7. 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		
4	Date			0.1:01- 31:12	
5	Year			2017 - 2048	
18	Daylight saving enable	Stnd dAY.S	Standard time Daylight saving time	0 - 1	Stnd
8. RESTORE FACTORY DEFAULT DATA					
966	Virtual bitswitch setting				
9	Set default values To set the factory defaults into the memory of the controller, 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.	1234 1066	Set default values Write to NVRAM without delay		
9. RESTORE PARAMETERS FROM NETWORK 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	
10. SYSTEM ALARMS Note: for channel alarms see channel data (section 3) items 2x6, 3x6, 4x6, 5x6, 6x9, 7x9, 8x9 & 9x9 where x is the channel number.					
80	Group alarm 81-88	Graphical	See display data		
83	Communications failure	clr t.C.FL	No Fault Fault		
87	Unit number corrupted/not set	CLr Un.CF	No fault Fault		

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11. DIAGNOSTIC & TEST FUNCTIONS					
6	JTL Network communications speed	4.8	kilo baud rate		
7	Communications method	HALF	2 wire		
8	Bitswitch setting				
954	Current zone no				
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			
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)		
99	Test digital displays	CLr SEt	Not active Test active	0 - 1	
100	Test inputs	- - - - 1 - - - - 2 - - - - 3 - - - - 4	No inputs Input 1 on Input 2 on Input 3 on Input 4 on		
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		

DISPLAY MESSAGES		RL25X
NORMAL DISPLAY		
RL25	Unit type	
ALARM TEXT (in descending priority order)		
C-xx	Channel alarm present	
FAIL	JTL network communications failure	
OTHER TEXT		
JTL	Start-up message	

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
	None	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	