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JTL TQ LEAK DETECTOR INTERFACE ITEM NUMBERS				RL260	
ITEM	DESCRIPTION	CODE	CODE MEANING	RANGE	ITEM 9 VALUE
1. Jnet NETWORK IDENTIFICATION					
0	Unit type	rL26	Unit type		
19	Software Version number				
1.1 UNIT NUMBERS					
31	No of channels Note: TQ4300 operation does NOT support 24 channels	0 1 2	8.Ch 16.Ch 24.Ch 8 channels 16 channels 24 channels	upto v0.00.3 0 - 1 from v0.00.4 0 - 2	16.Ch
211	Channel 1			0.1 - 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				

JTL TQ LEAK DETECTOR INTERFACE ITEM NUMBERS					RL260		
ITEM	DESCRIPTION	CODE	CODE MEANING		RANGE	ITEM 9 VALUE	
1.2 GLOBAL FAULT DATA							
32	Global data displays on all channels	Up to v0.00.2					
		0	Gd.En	Disabled		0 - 1	Gd.di
		1	Gd.di	Enabled			
		From v0.00.3					
		0	Gd.En	Enable		0 - 1	Gd.En
		1	Gd.di	Disable			
33	TQ system type (from v0.00.2)	0	4200	TQ4200		0 - 1	4200
		1	4300	TQ4300			
40 (up to v0.00.1)	TQ Alarm status The data shown is the sum of the values shown e.g. 3=1+2	1	Alarm 1				
		2	Alarm 2				
		4	Alarm 3				
		8	Fault				
40 (from v0.00.2)	TQ Alarm status bits 0 - 7 (graphical see display data)			TQ4200 (from v0.00.4)	TQ4300		
		1					
		2					
		4					
		8					
		16					
		32					
		64					
		128					
41 (from v0.00.2)	TQ Alarm status bits 8 - 15 (graphical see display data)			TQ4200	TQ4300		
		1					
		2					
		4					
		8					
		16					
		32					
		64					
		128					
2. GAS CONCENTRATIONS (ppm)							
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						

JTL TQ LEAK DETECTOR INTERFACE ITEM NUMBERS				RL260	
ITEM	DESCRIPTION	CODE	CODE MEANING	RANGE	ITEM 9 VALUE
110	Channel 10				
111	Channel 11				
112	Channel 12				
113	Channel 13				
114	Channel 14				
115	Channel 15				
116	Channel 16				
Channels 17 to 24 supported by TQ4200 only from v0.00.4					
117	Channel 17				
118	Channel 18				
119	Channel 19				
120	Channel 20				
121	Channel 21				
122	Channel 22				
123	Channel 23				
124	Channel 24				
3. CHANNEL GAS 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 and 600 - 699. For channels 10 - 19 the item nos are 300 - 396 and 700 - 799.					
For channels 20 -24 the item nos are 400 - 499 & 800 -849. Channels 17 to 24 are supported for TQ4200 from v0.00.4					
2x0 3x0 4x0	Channel Selection	OFF on		0 - 1	on
2x7 3x7 4x7	Mode	0 rdy t.E.FL sh.dn t.C.FL	Unknown Ready TQ equipment fault Shutdown TQ communications fault		
2x2 3x2 4x2	Gas Concentration (ppm)		(up to v0.00.1) Modbus registers 1 - 16 (from v0.00.2) selected gas on items 6x4 & 7x4		
2x4 3x4 4x4	Average Gas Concentration (ppm)				
2x5 3x5 4x5	Period over which averages taken			00:02 - 04:00	00:10
2x9 3x9 4x9	Network command status	run sh.dn	Run Shutdown		
6x4 7x4 8x4	TQ Sensor gas type (from v0.00.2)			1 - 4	1

JTL TQ LEAK DETECTOR INTERFACE ITEM NUMBERS				RL260	
ITEM	DESCRIPTION	CODE	CODE MEANING	RANGE	ITEM 9 VALUE
6x5 7x5 8x5	Gas concentration (gas 1) (ppm) (from v0.00.2)		Modbus Registers 1 - 24 (TQ4200) Modbus Registers 1 - 16 (TQ4300)		
6x6 7x6	Gas concentration (gas 2) (ppm) (from v0.00.2)		Modbus Registers 17 - 32 (TQ4300)		
6x7 7x7	Gas concentration (gas 3) (ppm) (from v0.00.2)		Modbus Registers 33 - 48 (TQ4300)		
6x8 7x8	Gas concentration (gas 4) (ppm) (from v0.00.2)		Modbus Registers 49 - 64 (TQ4300)		
4. MODBUS COMMUNICATIONS					
909	Interface baud rate	0 1 2 3 4 5	600 Baud 1200 Baud 2400 Baud 4800 Baud 9600 Baud 19200 Baud	0 - 5	19.2
30	TQ unit address			1 - 247	1
34	Delay between modbus requests (secs) (from v0.00.3)			0 - 5	0
35	Delay before modbus retry requests (secs) (from v0.00.3)			2 - 5	2
5. Jnet COMMAND FUNCTIONS					
62	Network controlled Shutdown selection	oFF sh.dn	Disabled Enabled	0-1	oFF
6. CLOCK CALENDAR					
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 etc		
4	Date			01:01 - 31:12	
5	Year			2015 - 2042	
18	Daylight saving enable	Stnd dAY.S	Standard time Daylight saving time	0 - 1	Stnd
7. RESTORE FACTORY DEFAULT DATA					
9	Set default values	1234 1066	Set default values Write to NVRAM without delay		

JTL TQ LEAK DETECTOR INTERFACE ITEM NUMBERS				RL260	
ITEM	DESCRIPTION	CODE	CODE MEANING	RANGE	ITEM 9 VALUE
8. RESTORE PARAMETERS FROM NETWORK					
<p>To restore the data from the network first set 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 the parameter restore progress. When all parameters are downloaded item 964 is cleared to 0.</p>					
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 (see display data)				
81	TQ equipment fault	CLr t.E.FL	No Fault Fault		
85	TQ communications failure	CLr t.C.FL	No Fault Fault		
88	Unit number corrupted/not set	CLr Un.CF	No fault Fault		
90	Group alarm 91-98 (see display data)				
91	Level 1 alarm	CLr Lo. AL	No fault Low level alarm		
92	Level 2 alarm (Not TQ4300)	CLr Zn. AL	No fault Leak alarm		
93	Level 3 alarm	CLr SP. AL	No fault Severe alarm		
94	Flow failure alarm (TQ4300 only from v0.00.2)	CLr FLo.F	No fault Flow failure		

JTL TQ LEAK DETECTOR INTERFACE ITEM NUMBERS				RL260	
ITEM	DESCRIPTION	CODE	CODE MEANING	RANGE	ITEM 9 VALUE
9.1 ALARMS FOR TQ4300 ONLY (V0.00.2 on)					
180	Group alarms 181 - 188 (see display data)				
181	Low level sensor 1	CLr S.LL.1	No fault Low level leak alarm sensor 1		
182	Low level sensor 2	CLr S.LL.2	No fault Low level leak alarm sensor 2		
183	Low level sensor 3	CLr S.LL.3	No fault Low level leak alarm sensor 3		
184	Low level sensor 4	CLr S.LL.4	No fault Low level leak alarm sensor 4		
185	Severe level sensor 1	CLr S.AL.1	No fault Severe level leak alarm sensor 1		
186	Severe level sensor 2	CLr S.AL.2	No fault Severe level leak alarm sensor 2		
187	Severe level sensor 3	CLr S.AL.3	No fault Severe level leak alarm sensor 3		
188	Severe level sensor 4	CLr S.AL.4	No fault Severe level leak alarm sensor 4		
190 (910)	Group alarms 191 - 195 (see display data)				
191	Leak sensor 1 fault	CLr S.SF.1	No fault Leak sensor 1 fault		
192	Leak sensor 2 fault	CLr S.SF.2	No fault Leak sensor 2 fault		
193	Leak sensor 3 fault	CLr S.SF.3	No fault Leak sensor 3 fault		
194	Leak sensor 4 fault	CLr S.SF.4	No fault Leak sensor 4 fault		
195	TQ4300 comms fault	CLr C.Err	No fault TQ4300 communications fault		

JTL TQ LEAK DETECTOR INTERFACE ITEM NUMBERS				RL260	
ITEM	DESCRIPTION	CODE	CODE MEANING	RANGE	ITEM 9 VALUE
10. DIAGNOSTIC & TEST FUNCTIONS					
6	Jnet communications speed	4.8	kilo baud rate		
7	2 wire communications	HALF	2 wire		
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)		
977	Transmit control line status for the operation of the Jnet network communications.	Hi Lo	Transmit Receive		
8	Bitswitch setting		Not used		
99	Test digital display	CLr SEt	Not active Test active	0 - 1	
10	Processor alarms (11-17) (see display data)	0 1-255	No alarms Check 11-17		
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		RL260
NORMAL DISPLAY		
RL26	Unit type	
ALARM TEXT (in descending priority order)		
Lo. AL	Low level alarm	
Zn.AL	Intermediate level alarm (zone)	
SP-AL	High level alarm spill	
t.E.FL	TQ equipment fault	
t.C.FL	TQ communications fault	
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	□□□□ □□□□