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JTL MSA LEAK DETECTOR INTERFACE ITEM NUMBERS					RL110	
ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
1. Jnet NETWORK IDENTIFICATION						
0	Unit type	rL11	Unit type			
19	Software Version number					
1.1 UNIT NUMBERS						
210	Channel 1				0 - 899.9	
220	Channel 2					
230	Channel 3					
240	Channel 4					
250	Channel 5					
260	Channel 6					
270	Channel 7					
280	Channel 8					
2. GAS CONCENTRATIONS (ppm)						
201	Channel 1					
202	Channel 2					
203	Channel 3					
204	Channel 4					
205	Channel 5					
206	Channel 6					
207	Channel 7					
208	Channel 8					

JTL MSA LEAK DETECTOR INTERFACE ITEM NUMBERS					RL110	
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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 (1-8). This sequence covers item numbers 210-289 and 310 - 389 for channels 1-8.						
3x0	Channel Selection	OFF on			0 - 1	on
2x7	Mode	0 init rdy trbl CAL sh.dn C.FLt	Unknown Warm up Ready Trouble Calibration mode Shutdown MSA Communications fault			
2x5	Channel alarm status	0 GL SGL	No alarm Gas leak Severe gas leak			
2x6	MSA Alarm Indication	0 caut alr crit	No Alarm Caution Warning Critical alarm			
2x2	Gas Concentration (ppm)					
2x4	Average Gas Concentration (ppm)					
3x5	Period over which averages taken				00:02 - 04:00	00:10
3x6	Caution gas level (ppm)				5 - 999	100
3x7	Gas alarm level (ppm)				5 - 999	200
3x8	Severe gas alarm level (ppm)				5 - 999	500
2x8	Display command status	run sh.dn	Run Shutdown			
2x9	Network command status	run sh.dn	Run Shutdown			
4. OUTPUTS						
72 (22)	Alarm relay (LN1/NO1) (Contacts closed if any critical alarm present on unit)	OFF AL.on	Alarm off Alarm on			
73 (21)	Siren relay (LN2/NO2) (On when critical alarm occurs)	OFF Sn.on	Siren off Siren on			
74	Watchdog relay (LN3/NO3) (contacts closed when healthy)	OFF hty	Faulty healthy			
28	Alarm lamp selection	OFF LP.EN	Disabled Alarm lamp enable			
5. Jnet COMMAND FUNCTIONS						
62	Network controlled Shutdown selection	oFF sh.dn	Disabled Enabled		0-1	oFF

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6. DISPLAY FUNCTIONS						
27	Display controlled Shutdown selection	OFF dcS.E	Disabled Enabled		0 - 1	OFF
25	Select local mute enable	OFF AC.En	Local mute disable Local mute enable		0 - 1	AC.En
23	"Function" pushbutton input status	OFF Pb.1	Off Button pressed			
24	"Scroll" pushbutton input status	OFF Pb.2	Off Button pressed			
29	"Enter" pushbutton input status	OFF Pb.3	Off Button pressed			
7. RESTORE FACTORY DEFAULT DATA						
9	Set default data				0-1	
8. SYSTEM ALARMS						
Note: for channel alarms see channel data (section 3) itesm 2x5 & 2x6 where x is the channel number.						
80	Group alarm 81-88	0 1-255	No alarms Check 81-88			
81	MSA Equipment fault	CLr Gd.FT	No Fault Fault			
82	Mute button pressed (alarm is cleared when read by network controller)	CLr AC.Pr	No alarm Button pressed			
83	MSA Communications failure	clr C.FLt	No Fault Fault			
87	Unit number corrupted/not set	CLr Un.CF	No fault Fault			

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9. DIAGNOSTIC & TEST FUNCTIONS						
6	Jnet communications speed	38.4 4.8	kilo baud rate kilo baud rate			
7	2/4 wire communications choice (Half/Full duplex)	HALF FULL	2 wire 4 wire		0-1	HALF
8	Bitswitch setting		Not used			
99	Test digital display	CLr SEt	Not active Test active		0 - 1	
101 - 121	MSA Communications receiver buffer	0 - 255	Decimal character value			
71	Pushbutton status NOTE: If more than one button is pressed the numbers shown in brackets are added together and displayed instead of the text	Pb-1 (4) Pb-2 (64) Pb-3 (128)	Function p/b Scroll p/b Enter p/b			
10	Processor alarms (11-17)	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			

BITSWITCH SETTINGS

Use ITEM 9 to set the default values.

DISPLAY MESSAGES		RL110
NORMAL DISPLAY		
----	No critical alarms	
ALARM TEXT (in descending priority order)		
t.PSU	Temperature probe power supply fault	
CxC	Channel x Caution	
Cx.GL	Channel x Gas leak	
Cx.SL	Channel x Severe Gas Leak	
G.d.ft	MSA equipment fault	
C.FLt	MSA communications fault	
OTHER TEXT		
JTL	Start-up message	
Cx.GC	Channel x Gas concentration data follows this text	
Cx.SP	Channel x setpoint data follows this text	
StAt	Channel status follows this text	
OFF	Channel status	
run	Channel status	
Unit	Unit number follows this text	
Func	Function mode	
or	Overrange reading	