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JTL COMPRESSOR PACK ITEM NUMBERS						LP160	
ITEM	DESCRIPTION	CODE	CODE MEANING	FACTORY DEFAULTS	RANGE	ITEM 9 VALUE	
1. Jnet NETWORK IDENTIFICATION							
0	Unit type	LP16	Unit type				
19	Software version number						
1	Unit number				0.1 - 899.9		
2. PRESSURE & TEMPERATURE							
2.1 PRESSURE							
<p>Note: Pressures can be displayed on the maintenance unit in psi, bar or kPa. The choice is made on item 179. All setpoint ranges are shown in psi.</p> <p>Average pressures are averaged over last hour and are updated every 4 minutes.</p>							
179	Pressure display unit choice	1 2 3	PSI bAr PASC	p.s.i. bar kPa		1 - 3	PSI
21	Suction pressure						
146	Average suction pressure over 1 hour						
42	High suction pressure alarm level				0 1	10 to 50 25 to 80	20 60
41	Low suction pressure alarm level				0 1	-5 to +15 5 to +40	0 20
121	Pressure transducer selection	OFF S.t.En	Disabled Enabled			0 - 1	St.En
421	Full scale transducer value (at 20mA)					50 - 200	100.0
426	Zero scale transducer value (at 4mA)					-15 - 0	0.0
2.2 TEMPERATURE & HUMIDITY (FROM V0.00.2)							
178	Temperature display choice	CELS FAhr	Celsius Fahrenheit			0 - 1	CELS
897	Site temperature (from broadcast)						
898	Site relative humidity (from broadcast)						
896	Site absolute humidity (from broadcast)						
899	Outside temperature (from broadcast)						

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ITEM	DESCRIPTION	CODE	CODE MEANING	FACTORY DEFAULTS	RANGE	ITEM 9 VALUE
3. SUCTION PRESSURE CONTROL						
40	Suction pressure setpoint			0 1	0 to +20 5 to 60	8 35
49	Suction pressure healthy tolerance				0 - 10	5
48	Suction pressure healthy delay (secs) (from v0.00.3)				10 - 60	15
60	Low ambient temperature level (v0.00.2 on)				5 to 15	10
61	Enable low ambient temperature level (v0.00.2 on)	oFF LA.En			0 - 1	OFF
63	Compressor control status (v0.00.3 on)	0 A.Cpr P.htY	None Allowed to run Pressure healthy			
4. COMPRESSOR ALARMS						
206	Compressor fault alarm delay (mins)				0 - 10	0
158	Compressor fault repeat alarm delay time	00:00	feature disabled		00:00 -24:00	00:00
5. VARIABLE CAPACITY DATA						
347	Suction pressure error					
344	Capacity loaded in effective kW					
341	Minimum cut out pressure (psi)			0 1	- 8 to +20 0 to 40	0 10
64	Restart pressure (from v0.00.2)			0 1	0 to +20 5 to 60	8 35
340	Time constant				1 - 240	30
339	Capacity gain				1 - 250	100
345	Current proportional term					
346	Current Integral term					
331	Capacity Demanded (%)					
204	Capacity Loaded (%)					
332	Compressor run hours (in 10's of hours)				0 - 9999	
333	Compressor status	rdy 0	ready to run (compressor healthy) not ready to run			
343	Minimum capacity allowed (%)				10 - 50	10
342	Maximum capacity allowed (%)				50 - 100	100
208	Minimum compressor off time (secs)				0 - 240	30
348	Maximum starts per hour				8 - 20	8
349	Restart inhibit time (sec)					
335	Compressor capacity in effective kW				1 - 100	10
337	Forced load (%)				0 - 100	

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ITEM	DESCRIPTION	CODE	CODE MEANING	FACTORY DEFAULTS	RANGE	ITEM 9 VALUE
338	Force compressor off	CP.En C.OFF	Enabled to run compressor forced off		0 - 1	
6. INPUTS AND OUTPUTS						
20	Operating mode	oFF Auto	Manual Automatic			
170	Inputs	Graphical	See display data bit1 =output 1			
171	Auto/manual (IP-1)	OFF Auto	Manual (pack controller dormant) Auto mode			
172	Plant ok (IP-2)	P.Hty PL.ft	Healthy Fault			
173	Compressor ok (IP-3)	C.Hty C.FlT	Healthy Fault			
174	Unload heat exchanger (IP-4) (from v0.00.3)	Ld.H.E Un.H.E	Load heat exchanger Unload heat exchanger			
160	Outputs	graphical	See display data bit1 = output1			
60	Multipurpose output selection (from v0.00.3)	Hi.S.P En.HE	High suction pressure alarm Enable heat exchanger		0 - 1	Hi.S.P
161	High suction pressure alarm (LN/LD-1) (up to v0.00.2)	clr Hi.SP	Off High pressure			
161	Multipurpose output (LN-LD1) (from v0.00.3)	OFF O1.on	Output off Output on			
162	Suction pressure healthy (LN/LD-2)	OFF S.P.Hy	off Suction pressure healthy			
163	Watchdog output (LN/LD-3)	OFF On	Watchdog fail Watchdog healthy			
164	Run compressor (LN/LD-4)	OFF run.c	off Run compressor			
165	Compressor unload valve 1 (LN/LD-5)	oFF CU- 1	loaded unloaded			
166	Compressor unload valve 2 (LN/LD6)	oFF CU - 2	loaded unloaded			
167	Compressor unload valve 3 (LN/LD7)	oFF CU - 3	loaded unloaded			
169	Unload valve cycle period time (secs)				20 - 60	21

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7. DISPLAY FUNCTIONS							
179	Pressure display unit choice	1 2 3	PSI bAr PASC	p.s.i. bar kPa		1 - 3	PSI
189	Backlight Control	0 1 2 3	B.oFF BL.on BL.F.F BL.n.F	Backlight off Backlight on Backlight off, flashes for alarm Backlight on, Flashes for alarm		0 - 3	
8. 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					2017 - 2048	
18	Daylight saving enable	Stnd dAY.S	Standard time Daylight saving time			0 - 1	Stnd
9. RESTORE FACTORY DEFAULTS							
966	Virtual bitswitch setting	0 1	LT HT	0 1			
9	Set default values selected by Bitswitches Note: Setting the bitswitches alone has no effect.	1234	Set default values	0 1	LT HT		
		1066	Write to NVRAM without delay				

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
ITEM	DESCRIPTION	CODE	CODE MEANING	FACTORY DEFAULTS	RANGE	ITEM 9 VALUE
10. RESTORE PARAMETERS FROM NETWORK						
<p>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.</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 nl.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	
11. SYSTEM ALARMS						
80	Group alarm 81 - 88	graphical	See display data			
81	Low suction pressure	CLr Lo.SP	No fault Fault			
82	High suction pressure	CLr Hi.SP	No fault Fault			
90	Group alarm 91 - 98	graphical	See display data			
91	Pressure transducer fault	CLr Pt.Ft	No fault Fault			
97	Compressor fault	CLr CPr.F	No fault Fault			
910	Group alarms 910 - 918	graphical	See display data			
915	Plant fault	CLr Pt.Ft	No fault Plant fault			

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ITEM	DESCRIPTION	CODE	CODE MEANING	FACTORY DEFAULTS	RANGE	ITEM 9 VALUE
12. DIAGNOSTIC & TEST FUNCTIONS						
6	JTL Network communications speed	4.8	Kilo Baud			
7	Communications method	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 settings	Lt Ht	LT Compressor HT Compressor			
99	Test digital displays	Clr SEt	Not active Test active		0 - 1	
100	Test inputs	graphical	See display data bit 1 = input 1			
199	Test relay outputs	clr SEt	Not active Active		0 - 1	
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 DATA		LP160
NORMAL DISPLAY		
999.9	Pressure in psi	
--	Not selected	
ALARM TEXT (in descending priority order)		
P.Fld	Plant failed	
Hi.SP	High suction pressure	
OTHER TEXT		
JTL	Start-up text	

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	Value	Note
	None		0	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)
	1		1	
	2		2	
	3		4	
	4		8	
	5		16	
	6		32	
	7		64	
8		128		