

JTL COMPRESSOR PACK ITEM NUMBERS					CP4H CP4C CP4R CP4L CP4A		
ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE	
				4321			
0	Unit type	CP4H CP4C CP4r CP4L CP4A	Unit type				
1	Unit number				0.1 - 899.9		
2	Time of day				00:00 - 23:59		
3	Day of week	CP4X04 on (v0.00.4 on)					
					0 - 6 (0=Sun)		
4	Date	CP4X12 on (v0.01.2 on)					
					01:01 - 31:12		
5	Year	CP4X12 on (v0.01.2 on)					
					00 - 99		
6	Communications speed	4800 600	Baud rate Baud rate				
8	Bitswitch Setting						
9	Set default values selected by Bitswitch				1234 only		
PROCESSOR ALARMS							
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				
MISCELLANEOUS DATA							
19	Software Version number						
PRESSURES							
21	LT suction pressure						
22	HT suction pressure						
23	Discharge pressure						

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
24	Satellite suction pressure					
TEMPERATURES						
31	LT suction gas temperature					
32	HT suction gas temperature					
33	Discharge temperature					
34	Satellite suction gas temperature					
35	Subcooled liquid temperature					
36	Saturated gas temperature					
37	Plant room temperature					
LT SUCTION PRESSURE CONTROL						
40	LT suction pressure setpoint	CP4X00 - CP4X04 (v0.00.0 - 0.00.4)				
					- 5 to +20	8
		CP4X05 on (v0.00.5 on)				
					- 5 to +20	4
41	No of LT suction steps loaded					
42	High LT suction pressure alarm level	CP4X00 - CP4X10 (v0.00.0 - 0.01.0)				
					10 - 30	20
		CP4X11 on (v0.01.1 on)				
					10 - 50	20
43	LT suction pressure deadband				0 - 5	2
44	LT suction pressure increase time constant				1 - 60	30
45	LT suction pressure decrease time constant				1 - 60	15
46	Suction pressure to hold off stage 2				50 - 100	80
47	Suction pressure to hold off stage 3				30 - 100	60
48	LT suction 1st stage hold on	CP4X04 on (v0.00.4 on)				
					- 8 to +20	0
49	LT suction total capacity loaded (in kW)	CP4X04 on (v0.00.4 on)				

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				4321		
HT SUCTION PRESSURE CONTROL						
50	HT suction pressure setpoint	CP4X00 - CP4X04 (v0.00.0 - 0.00.4)				
					20 - 60	45
		CP4X05 - CP4X13 (v0.00.5 - 0.01.3)				
					20 - 60	25
		CP4X14 on (v0.01.4 on)				
					5 - 60	25
51	No of HT suction steps loaded					
52	High HT suction pressure alarm level	CP4X00 - CP4X10 (v0.00.0 - 0.01.6)				
					30 - 70	60
		CP4X11 - CP4X13 (v0.01.1 - 0.01.3)				
					30 - 80	60
		CP4X14 on (v0.01.4 on)				
					15 - 80	60
53	HT suction pressure deadband	CP4X00 - CP4X04 (v0.00.0 - 0.00.4)				
					0 - 10	10
		CP4X05 on (v0.00.5 on)				
					0 - 10	5
54	HT suction pressure increase time constant				1 - 60	30
55	HT suction pressure decrease time constant				1 - 60	15
58	HT suction 1st stage hold on	CP4X04 on (v0.00.4 on)				
					2 - 60	10
59	HT suction total capacity loaded (in kW)	CP4X04 on (v0.00.4 on)				

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DISCHARGE PRESSURE CONTROL						
60	Discharge pressure setpoint	Up to CP4X11 (v0.01.1)				
					150 - 250	200
		CP4X12 on (v0.01.2 on)				
					100 - 250	200
61	Number of fans required	CP4X07 on (v0.00.7 on)				
62	High discharge pressure alarm level	Up to CP4X13 (v0.01.3)				
					200 - 300	250
		CP4X14 on (v0.01.4 on)				
					140 - 300	250
63	Discharge pressure deadband				0 - 20	5
64	Condenser control time constant				1 - 250	30
65	Discharge pressure to reduce capacity	Up to CP4X13 (v0.01.3)				
					200 - 320	300
		CP4X14 on (v0.01.4 on)				
					140 - 320	300
66	Gas temperature to open regulator valve				25 - 40	30
67	Discharge pressure setpoint offset during gas defrost				0 - 50	0
68	Discharge pressure setpoint offset during heat reclaim	CP4X07 on (v0.00.7 on)				
					0 - 50.0	0.0

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE	
				4321			
SATELLITE SUCTION PRESSURE CONTROL							
70	Satellite suction pressure setpoint	CP4X00-CP4X04 (v0.00.0 - 0.00.4)					
						- 5 to +50	25
		CP4X05 on (v0.00.5 on)					
						- 5 to +50	2
71	No of Satellite suction steps loaded						
72	High Satellite suction pressure alarm level	CP4X00-CP4X04 (v0.00.0 - 0.00.4)					
						20 - 70	50
		CP4X05 - CP4X10 on (v0.00.5 0.01.0)					
						20 - 70	20
72	High Satellite suction pressure alarm level	CP4X11 on (v0.01.1)					
						20 - 80	50
73	Satellite suction pressure deadband				0 - 10	5	
74	Satellite suction pressure increase time constant				1 - 60	30	
75	Satellite suction pressure decrease time constant				1 - 60	30	
78	Satellite suction 1st stage hold on	CP4X04 on (v0.00.4 on)					
						- 5 to +50	0
79	Satellite suction total capacity loaded (in kW)	CP4X04 on (v0.00.4 on)					

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
SYSTEM ALARMS						
80	Group alarm 81 - 88	0 1 - 255	No alarms Check 81 - 88			
81	High LT suction pressure	Clr Hi.Lt	No fault Fault			
82	High HT suction pressure	Clr Hi.Ht	No fault Fault			
83	High discharge pressure	Clr Hi.dP	No fault Fault			
84	High Satellite suction pressure	Clr Hi.St	No fault Fault			
85	Refrigerant loss	Clr Lo.Li	No fault Fault			
86	Motor thermistor fault	Clr Th.Ft	No fault Fault			
87	Motor overload fault	Clr OL	No fault Fault			
88	Condenser fault	Clr Fn.Ft	No fault Fault			
MISCELLANEOUS DATA						
89	Thermistor excitation value (Factory test)		Not used			

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
SYSTEM ALARMS						
90	Group alarm 91 - 98	0 1 - 255	No alarms Check 91 - 98			
91	Pressure transducer fault	CLr Pt.Ft	No fault Fault			
92	Thermistor fault	CLr th.Ft	No fault Fault			
93	Thermistor excitation voltage	CLr PS.Ft	No fault Fault			
94	(Up to v0.01.8)					
	Unit number corrupted	CLr Un.CF	No fault Fault			
	v0.01.9 on					
	High or low pressure Switch fault	CLr HP.LP	No fault Fault			
95	Defrost interface card fault	CLr Stub	No fault Fault			
96	Compressor interface card fault	CLr CP.F	No fault Fault			
97	Compressor fault	Up to CP4X15 (up to v0.01.5)				
		CLr CPr.F	No fault Fault			
	Compressor fault OR Auto input not present	CP4X16 on (v0.01.6 on)				
		CLr CPr.F	No fault Fault			
98	Oil pressure fault	CLr OiL.F	No fault Fault			
UTILITY						
99	Test digital displays	CLr SEt	Not active Test active		0 - 1	

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
PRESSURE TRANSDUCER SELECTIONS						
121	LT pressure transducer selection	OFF Lt.En	Disabled Enabled		0 - 1	Lt.En
122	HT pressure transducer selection	OFF Ht.En	Disabled Enabled		0 - 1	Ht.En
123	Discharge pressure transducer selection	OFF DS.En	Disabled Enabled		0 - 1	DS.En
124	Satellite pressure transducer selection	OFF St.En	Disabled Enabled		0 - 1	St.En
126	Absolute LT suction pressure transducer selection	Lt.GA Lt.Ab	Gauge pressure Absolute pressure		0 - 1	Lt.GA
129	Absolute Satellite suction pressure transducer selection	St.GA St.Ab	Gauge pressure Absolute pressure		0 - 1	St.GA
TEMPERATURE PROBE SELECTION						
131	LT suction temperature	OFF t1.En	Not selected Selected		0 - 1	t1.En
132	HT suction temperature	OFF t2.En	Not selected Selected		0 - 1	t2.En
133	Discharge temperature	OFF t3.En	Not selected Selected		0 - 1	t3.En
134	Satellite suction temperature	OFF t4.En	Not selected Selected		0 - 1	t4.En
135	Subcooled liquid temperature	OFF t5.En	Not selected Selected		0 - 1	t5.En
136	Saturated gas temperature	OFF t6.En	Not selected Selected		0 - 1	t6.En
137	Plant room temperature	OFF t7.En	Not selected Selected		0 - 1	t7.En

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
MISCELLANEOUS SELECTIONS						
138	Display configuration	CP4X12 on (v0.01.2 on)				
		0	4 pressures displayed on LED display		CP4C	
					0 - 3	2
		1	4 pressures, No. of compressors running, No. of condenser step systems on defrost shown on LED display		CP4H	
					0 - 3	0
				CP4L		
				0 - 3	1	
		3	Reserved			
139	Display type selection	LEd.1 LEd.2	2 displays 4 displays		0 - 1	LEd.2
145	Interstage interlock selection	OFF IL.En	Interlock disabled Interlock enabled		0 - 1	OFF

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
OUTPUT STATES						
160	Watchdog status (CP4H,CP4R and CP4L) (LN/LD-2)	OFF On	Watchdog fail Watchdog healthy		CP4H,CP4R and CP4L only	
161	Dump valve control	OFF Du.on	Not used		CP4C only	
162	Saturated gas temperature regulator valve (CP4C) (LN/LD-2)	OFF Gr.on	Valve closed Valve open		CP4C only	
163	Differential pressure relief valve control (LN/LD-1)	Gd no.Gd	Gas defrost (Diff. pressure) No gas defrost (Diff. pressure relief)		CP4H, CP4R and CP4L only	
164	Cool gas valve control	OFF CG.on	Not used			
165	Interstage valve control	Up to CP4X15 (up to v0.015)				
		OFF IS.On	Not used			
		CP4A19on (v0.01.9 on)				
		OFF IS.On	Valve closed Valve energised		CP4A only	
INPUT STATES						
171	Auto/manual (IP-1)	OFF Auto	Manual (pack controller dormant) Auto mode			
172	Liquid level (IP-2)	CLr Lo.Li	Liquid o.k. Low liquid level			
173	Refrigerant loss (IP-2)	Up to CP4X15 (up to v0.01.5)				
		CLr rEF.L	No loss Loss detected			
174	Plant failed (IP-1)	Up to CP4X15 (up to v0.01.5)				
		CLr P.FLd	No failure Plant failed			

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
CAPACITIES OF THE NEXT AVAILABLE STEPS IN kW (CP4X08 on - v0.00.8 on)						
181	LT suction increase	nonE or 255 or 0	No capacity available			
182	LT suction decrease	nonE or 255 or 0	No capacity available			
183	HT suction increase	nonE or 255 or 0	No capacity available			
184	HT suction decrease	nonE or 255 or 0	No capacity available			
187	Satellite suction increase	nonE or 255 or 0	No capacity available			
188	Satellite suction decrease	nonE or 255 or 0	No capacity available			
INCREASE/DECREASE CAPACITY DEMAND STATES (CP4X08-CP4X13 (v0.00.8-v0.01.3))						
191	LT suction	inc.L dEc.L 0	Increase demand present Decrease demand present No demand			
192	HT suction	inc.H dEc.H 0	Increase demand present Decrease demand present No demand			
194	Satellite suction	inc.S dEc.S 0	Increase demand present Decrease demand present No demand			

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
COMMON COMPRESSOR DATA						
200	Number of compressors				0 - 10	10
201	Number of steps on load					
203	Total capacity loaded (in kW)	CP4X04 on (v0.00.4 on)				
204	Forced number of LT suction stages	CP4X04 on (v0.00.4 on)				
					0 - 30	
205	Forced number of HT suction stages	CP4X04 on (v0.00.4 on)				
					0 - 30	
207	Forced number of satellite suction stages	CP4X04 on (v0.00.4 on)				
					0 - 30	
208	Minimum compressor stop time (seconds)	CP4X08 on (v0.00.8 on)				
					0 - 240	30

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE	
				4321			
COMPRESSOR DATA							
A general form of item numbers for compressors is shown below. The "x" shown in each item number should be replaced by the compressor number. This sequence covers item numbers 210-299 for compressors 1 - 9 and 300 - 309 for compressor 10.							
2x0	Number of steps				0 - 3	3	
2x1	Number of steps on load						
2x2	Running hours (in 10s of hours)				0 - 9999		
2x3	Compressor status <u>Note:-</u> If more than one input is present, the numbers shown in brackets are added together and displayed instead.	run (128) rdy (64) O.L (32) Lo.Pr (16) Hi.Pr (8) Oil.F (4) th.Ft (2) 0	Running. Ready to run (no faults). Motor overload. Low pressure fault. High pressure fault. Oil pressure failure. Motor thermistor fault. Off or compressor interface fault.				
2x4	Compressor restart inhibit timer (Minutes up to CP4X03 Seconds from CP4X04)						
2x5	Compressor function	0 Lt.C Ht.C SA.t.C	Not in use LT HT Satellite		0 - 3	Lt.C	
2x6	Compressor capacity in effective kW	CP4X04 on (v0.00.4 on)					
						1 - 100	10
2x7	Forced number of compressor steps				0 - 3		
2x8	Force compressor off	CP.En C.OFF	Compressor enabled to run Compressor forced off		0 - 1		
2x9	Compressor number of starts per hour	CP4X04-CP4X05 (v0.00.4 - 0.00.5)					
						5 - 15	8
		CP4X06 on (v0.00.6 on)					
					4 - 20	8	

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
INVERTER DATA						
Items 330 - 341 CP4X13 on (v0.01.3 on)						
330	Select inverter control	OFF In.1S	Not selected Inverter selected		0 - 1	0
331	Number of steps on load	0 127	Off Maximum			
332	Inverter run hours (in 10's of hours)				0 - 9999	
333	Inverter status Note: If more than one input is present, the numbers shown in brackets are added together and displayed instead.	run (128) rdy (64) O.L (32) Ph.Ft (16) HP.LP (8) Oil.F (4) Th.Ft (2) In.Ft (1)	running ready to run (no faults) overload Phase failure HP/LP fault Oil failure Motor thermister Inverter fault			
334	Inverter use with selected suction pressure	0 Lt.C Ht.C SAT.C	Not in use LT suction HT suction Satellite suction		0 - 3	Lt.C
335	Inverter capacity at minimum speed in effective kW				1 - 100	5
336	Inverter capacity at maximum speed in effective kW				1 - 100	10
337	Forced no. of steps				0 - 127	
338	Force inverter off	CP.En C.OFF	Enabled to run Inverter forced off		0 - 1	
339	Speed gain				1 - 25	10
340	Time constant				1 - 240	30
341	Minimum cut out pressure				- 8 to +40	0
342	Maximum steps allowed	CP4X17 on (v0.01.7 on)				
					64 - 127	127
343	Minimum steps allowed	CP4X17 on (v0.01.7 on)				
					1 - 63	1

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE	
				4321			
CONDENSER CONTROL							
390	Number of condenser steps	Upto CP4X11 (up to v0.01.1)					
						0 - 11	11
		CP4X12-CP4X15 (v0.01.2-v0.01.5)					
						CP4H	
						0 - 12	7
						CP4C, CP4L	
						0 - 7	7
		CP4X16m (v0.01.6 on)					
						CP4H	
						0 - 13	7
				CP4C, CP4L			
				0 - 7	7		
391	Number of condenser steps running						
392	Forced number of condenser steps		Step Analog		0- no. of steps		
MISCELLANEOUS DATA							
393	Heat reclaim input	OFF Hr.On	Heat reclaim off Heat reclaim on				
394	Analog/stepped condenser control selection	StEP A.LOG	Step control Analog control		0 - 1	StEP	
395	Analog fan speed gain	CP4X09 on (v0.00.9 on)					
						1 - 25	10
396	<u>Note:-</u> If more than one input is present, the numbers shown in brackets are added together and displayed instead.	CP4X12 on (v0.01.2 on)					
		1	Step 1 input				
		2	Step 2 input				
		4	Step 3 input				
		8	Step 4 input				
		16	Step 5 input				
		32	Step 6 input				
64	Step 7 input						
128	Heat reclaim input						

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
COMMON DEFROST CONTROL DATA						
400	Number of stubs				0 - 28	28
401	Maximum gas defrost duration				15 - 40	25
402	Time before end of gas defrosts				0 - 5	0
403	Time before end of gas defrosts				0 - 5	0
404	Maximum number of gas/electric defrosts allowed at any time				1 - 28	3
406	Select defrost relay termination at beginning or end of drain down period	CP4X12 on (v0.01.2 on)				
		OFF t.End.	Relay terminates at beginning of drain down Relay terminates at end of drain down		0 - 1	OFF
407	Group interface selection	CP4L10 on (v0.01.0 on)				
		OFF CG.On	Group interface not used. Group interface used for differential pressure control.		0 - 1	OFF
408	Drain down interface selection	CP4H06 on (v0.00.6 on)				
		OFF dd.On	Drain down interfaces not used. Drain down interfaces used for drain down control.		0 - 1	OFF
409	Stub defrost interfaces selection	CP4H04 on (v0.00.4 on)				
		OFF Sb.On	Stub interfaces not used. Stub interfaces used for defrost control.		0 - 1	On

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
DEFROST DATA						
410	Start time for first daily defrost	STUB			00:00 - 23:59	TIME
420		1				08:00
430		2				08:30
440		3				09:00
450		4				09:30
460		5				10:00
470		6				10:30
480		7				11:00
490		8				11:30
500		9				12:00
510		10				12:30
520		11				13:00
530		12				13:30
540		13				08:15
550		14				08:45
560		15				09:15
570		16				09:45
580		17				10:15
590		18				10:45
600		19				11:15
610		20				11:45
620		21				12:15
630		22				12:45
640		23				13:15
650		24				13:45
660		25				08:00
670		26				09:00
680		27				10:00
	28			11:00		

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
<p>A general form of item numbers for defrost systems is shown below. The "x" shown in each item number should be replaced by the system number up to system 9. Systems 10-19 use items 500-599 and systems 20-28 use items 600-689.</p>						
4x1	Duration of defrost (mins)				5 - 60	20
4x2	Defrost pattern	0 1 - 6 7 8	No defrosts. Number of equally spaced daily defrosts. 3 defrosts per day, but the 3rd is missing. 4 defrosts per day, but the 4th is missing.		0 - 8	4
4x3	Forced defrost	OFF Fd.on	No forced defrost Forced defrost on		0 - 1	
4x4	Forced refrigeration	OFF Fr.on	No forced refrig. Forced refrig. on		0 - 1	
4x5	Defrost mode	Up to CP4X17 (up to v0.01.7)				
		0 dEF dr.dn F.dEF F.rEF d.inh FAIL	Refrig. Defrost Drain down Forced defrost Forced refrig. Defrost inhibited (see item 404) Defrost interface fail			
		CP4X18 on (v0.01.8)				
		0 deF dr.dn F.dEF F.rEF FAIL	Refrig. Defrost Drain down Forced defrost Forced refrig. Defrost interface fail			
4x6	Drain down time				0 - 15	5

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ITEM	DESCRIPTION	CODE	CODE MEANING	BIT	RANGE	ITEM 9 VALUE
				4321		
4x7	Compressor group associated with this defrost system	CP4X10 on (v0.01.0 on)				
		0 Lt.C Ht.C Sat.C	No association Lt compressor group Ht compressor group Satellite compressor group		0 - 3	0
		0 1 - 10	Defrost terminated on time only. JTL units terminate defrost on temp. and inform pack.		0 - 10	0
4x8	No of evaporators on this defrost system					
4x9	No of JTL-controlled evaporators terminated					

BITSWITCH SETTINGS

Bitswitches not used

Note: Use **ITEM 9** to set the default values.

DISPLAY DATA		CP4H CP4C CP4R CP4L CP4A	
NORMAL DISPLAY			
999.9	Pressure in psi		
--	Not selected		
ALARM TEXT (in descending priority order)			
P.FLd	Plant failed		
Hi.dP	High discharge pressure		
Stub	Defrost interface fault		
rEF.L	Refrigerant loss		
CPr	Compressor fault		
FAn	Condenser fan problem		
Hi.Lt	High LT suction pressure		
Hi.Ht	High HT suction pressure		
Hi.St	High satellite suction pressure		
Hi.dt	High discharge temperature		
OTHER TEXT			
JTL	Start-up text		
Lt	LT suction pressure follows this text		
Ht	HT suction pressure follows this text		
At	Satellite suction pressure follows this text		