

| JTL COMPRESSOR PACK ITEM NUMBERS | | | | | CPLT | |
|---|---------------------------------------|---------------|---|------|---------------|--------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | BIT | RANGE | ITEM 9 VALUE |
| | | | | 4321 | | |
| 0 | Unit type | CPLt | Unit type | | | |
| 1 | Unit number | | | | 0.1 - 899.9 | |
| CLOCK CALENDAR | | | | | | |
| Note, from version 0.00.4 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 | up to v0.00.3 | 0 = Sunday 1 = Monday etc | | | |
| | | 0 - 6 | | | | |
| | | v0.00.4 on | | | | |
| | | Sun - Sat | | | | |
| 4 | Date | | | | 01:01 - 31:12 | |
| 5 | Year | | up to v0.00.1 00 - 99 v0.00.2 on 1992 - 2022 | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| MISCELLANEOUS DATA | | | | | | |
| 6 | Communications speed | 4.8 38.4 | Kilo baud rate Kilo baud rate | | | |
| 8 | Bitswitch setting | | | | | |
| 9 | Set default values | 1234 | Load default settings Write to NVRAM immediately | | | |
| | | 1066 | | | | |
| 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 | | | |
| 18 | Daylight saving enable (from v0.00.4) | Stnd dAY.S | Standard time Daylight saving time | | 0 - 1 | Stnd |

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| MISCELLANEOUS DATA | | | | | | |
| 19 | Software Version number | | | | | |
| PRESSESURES | | | | | | |
| 21 | LT suction pressure | | | | | |
| 22 | HT suction pressure | | | | | |
| 23 | Discharge pressure | | | | | |
| 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 | | | | - 5 to + 20 | 4 |
| 41 | No of LT suction steps loaded | | | | | |
| 42 | High LT suction pressure alarm level | | | | 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 |
| 48 | LT suction 1st stage hold on | | | | - 8 to +20 | 0 |
| 49 | LT suction total capacity loaded (in kW) | | | | | |
| HT SUCTION PRESSURE CONTROL | | | | | | |
| 50 | HT suction pressure setpoint | | | | 5 - 60 | 25 |
| 51 | No of HT suction steps loaded | | | | | |
| 52 | High HT suction pressure alarm level | | | | 15 - 80 | 60 |
| 53 | HT suction pressure deadband | | | | 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 | | | | 2 - 60 | 10 |
| 59 | HT suction total capacity loaded (in kW) | | | | | |

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| DISCHARGE PRESSURE CONTROL | | | | | | |
| 60 | Discharge pressure setpoint | | | | 100 - 250 | 150 |
| 61 | Number of fans required | | | | | |
| 62 | High discharge pressure alarm level | | | | 140 - 300 | 250 |
| 63 | Discharge pressure deadband | | | | 0 - 20 | 5 |
| 64 | Condenser control time constant | | | | 1 - 250 | 30 |
| 65 | Discharge pressure to reduce capacity | | | | 140 - 320 | 300 |
| SATELLITE SUCTION PRESSURE CONTROL | | | | | | |
| 70 | Satellite suction pressure setpoint | | | | -5 to + 50 | 2 |
| 71 | No of Satellite suction steps loaded | | | | | |
| 72 | High Satellite suction pressure alarm level | | | | 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 | | | | - 5 to + 50 | 0 |
| 79 | Satellite suction total capacity loaded (in kW) | | | | | |
| 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 | Low liquid level | CLr Lo.Li | 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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| 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 | Low suction superheat (v0.00.2 on) | CLr Lo.Sh | No fault Fault | | | |
| 96 | Compressor interface card fault | CLr CP.F | No fault Fault | | | |
| 97 | Compressor fault OR Auto input not present | CLr CPr.F | No fault Fault | | | |
| UTILITY | | | | | | |
| 99 | Test digital displays | CLr SEt | Not active Test active | | 0 - 1 | |
| MAXIMUM NUMBER OF COMPRESSORS ALLOWED TO RUN (v0.00.7 on) | | | | | | |
| 101 | Maximum number of LT compressors allowed | | | | 1 - 10 | 10 |
| 102 | Number of LT compressors running | | | | | |
| 103 | Maximum number of HT compressors allowed | | | | 1 - 10 | 10 |
| 104 | Number of HT compressors running | | | | | |
| 105 | Maximum number of satelite compressors allowed | | | | 1 - 10 | 10 |
| 106 | Number of satelite compressors running | | | | | |
| 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 |

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| 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 | Temperature sensor 6 | OFF t6.En | Not selected Selected | | 0 - 1 | Off |
| 137 | Plant room temperature | OFF t7.En | Not selected Selected | | 0 - 1 | t7.En |
| SUCTION SUPERHEATS V0.00.2 ON | | | | | | |
| 141 | LT suction superheat | | | | | |
| 142 | HT suction superheat | | | | | |
| 143 | Satellite suction superheat | | | | | |
| 144 | Minimum superheat | 0.0 | Alarm disabled | | 0.0 - 20.0 | 0.0 |
| AVERAGE PRESSURES V0.00.4 on | | | | | | |
| Pressures are averaged over last hour (the average is updated every 4 minutes) | | | | | | |
| 146 | Average LT suction pressure | | | | | |
| 147 | Average HT suction pressure | | | | | |
| 148 | Average discharge pressure | | | | | |
| 149 | Average satellite suction pressure | | | | | |

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| SUCTION PRESSURE OPTIMISATION | | | | | | | | | | | |
| If suction pressure optimisation is selected then the suction pressure setpoints as set in item 40, 50 and 70 can be adjusted upwards to the maximum by a JTL optimisation unit connected to the network. | | | | | | | | | | | |
| If there is no JTL optimisation unit on the network then the setpoint remains at the original set value. In the event of network failure the setpoints revert to the original set value after a time delay of 15 minutes. | | | | | | | | | | | |
| 150 | Select network optimised suction pressure control | Off OPt.E | Not added Selected | | 0 - 1 | Off | | | | | |
| 151 | Optimised LT suction setpoint | | | | | | | | | | |
| 152 | Optimised LT suction setpoint upper limit | | | | 5 - 20 | 10 | | | | | |
| 153 | Optimised HT suction setpoint | | | | | | | | | | |
| 154 | Optimised HT suction setpoint upper limit | | | | 15 - 60 | 40 | | | | | |
| 155 | Optimised Satellite suction setpoint | | | | | | | | | | |
| 156 | Optimised Satellite suction setpoint upper limit | | | | 5 - 50 | 10 | | | | | |
| 157 | Refrigerant type (v0.00.2) | 0 22 502 404 407A 407B 507 | None R22 R502 R404 R407A R407B R507 | | 0 - 6 | R404A | | | | | |
| OUTPUT STATES | | | | | | | | | | | |
| Note: Output 1 is unused. | | | | | | | | | | | |
| 160 | Watchdog status (LN/LD-2) | OFF On | Watchdog fail Watchdog healthy | | | | | | | | |
| 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 | | | | | | | | |
| 175 | Low level liquid alarm delay (minutes) (v0.00.7 on) | | | | 15 - 240 | 30 | | | | | |
| 176 | Defrost scheduling operation in manual (v0.00.5 on) | Auto MAn | Enabled in auto only Enabled always | | 0 - 1 | Auto | | | | | |
| 177 | JTL numbering on systems on defrost display (v0.00.5 on) Note: Depends on unit no setting on item 1. | oFF J.no | System no. range 1- 28 System no. range x01 - x28 | | 0 - 1 | oFF | | | | | |
| 178 | Temperature display unit choice (v0.00.5 on) | CELS FAhr | Celsius Fahrenheit | | 0 - 1 | CELS | | | | | |
| 179 | Pressure display unit choice (v0.00.4 on) | PSI bAr PASC | p.s.i. bar kPa | | 1 - 3 | PSI | | | | | |

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| CAPACITIES OF THE NEXT AVAILABLE STEPS IN KW | | | | | | |
| 181 | LT suction increase | | | | | |
| 182 | LT suction decrease | | | | | |
| 183 | HT suction increase | | | | | |
| 184 | HT suction decrease | | | | | |
| 187 | Satellite suction increase | | | | | |
| 188 | Satellite suction decrease | | | | | |
| INTEGRATED PRESSURE ERRORS V0.00.2 ON | | | | | | |
| 191 | LT suction | | | | | |
| 192 | HT suction | | | | | |
| 193 | Discharge | | | | | |
| 194 | Satellite suction | | | | | |
| COMMON COMPRESSOR DATA | | | | | | |
| Forced functions remain forced if the Maintenance Unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged. | | | | | | |
| 200 | Number of compressors | | | | 0 - 10 | 10 |
| 201 | Number of steps on load | | | | | |
| 203 | Total capacity loaded (in kW) | | | | | |
| 204 | Forced number of LT suction stages | | | | 0 - 30 | |
| 205 | Forced number of HT suction stages | | | | 0 - 30 | |
| 206 | Compressor fault alarm delay (mins) (v0.00.2 on) | | | | 0 - 10 | 0 |
| 207 | Forced number of satellite suction stages | | | | 0 - 30 | |
| 208 | Minimum compressor stop time (seconds) | | | | 0 - 240 | 30 |

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| | | | | 4321 | | | | | | | |
| COMPRESSOR DATA | | | | | | | | | | | |
| <p>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.</p> <p>Forced functions remain forced if the Maintenance Unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged.</p> | | | | | | | | | | | |
| 2x0 | Number of steps | | | | 0 - 1 | 1 | | | | | |
| 2x1 | Number of steps on load | | | | | | | | | | |
| 2x2 | Running hours (in 10s of hours) | | | | 0 - 9999 | | | | | | |
| 2x3 | Compressor status | rdy 0 | Ready to run (no fault). Off or compressor interface fault. | | | | | | | | |
| 2x4 | Compressor restart inhibit timer (Seconds) | | | | | | | | | | |
| 2x5 | Compressor function | 0 Lt.C Ht.C SAT.C | Not in use LT HT Satellite | | 0 - 3 | Lt.C | | | | | |
| 2x6 | Compressor capacity in effective kW | | | | 1 - 100 | 10 | | | | | |
| 2x7 | Forced number of compressor steps | | | | 0 - 1 | | | | | | |
| 2x8 | Force compressor off | CP.En C.OFF | Compressor enabled to run Compressor forced off | | 0 - 1 | | | | | | |
| 2x9 | Compressor number of starts per hour | | | | 4 - 20 | 10 | | | | | |
| ADDITIONAL COMPRESSOR DATA (v0.00.7 on) | | | | | | | | | | | |
| <p>351, 371 for compressor 1. 352, 372 for compressor 2 etc</p> | | | | | | | | | | | |
| 351-360 | Average number of starts per hour last 24 hours | | | | | | | | | | |
| 371-380 | Compressor run time last 24 hours | | | | | | | | | | |

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| | | | | 4321 | | | | | | |
| CONDENSER CONTROL | | | | | | | | | | |
| | Forced functions remain forced if the Maintenance Unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged. | | | | | | | | | |
| 390 | Number of condenser steps | | | | up to V0.00.2 | | | | | |
| | | | | 0 - 7 | 7 | | | | | |
| | | | | v0.00.3 on | | | | | | |
| | | | | 0 - 13 | 7 | | | | | |
| 391 | Number of condenser steps running | | | | | | | | | |
| 392 | Forced number of condenser steps | | Step Analog | | 0 - no. of steps (item 390) | | | | | |
| 394 | Analog/stepped condenser control selection | StEP A.LOG | Step control Analog control | | 0 - 1 | StEP | | | | |
| 395 | Analog fan speed gain | | | | 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. | 1 2 4 8 16 32 64 | Step 1 input Step 2 input Step 3 input Step 4 input Step 5 input Step 6 input Step 7 input | | | | | | | |
| COMMON DEFROST CONTROL DATA | | | | | | | | | | |
| 400 | Number of stubs | | | | 0 - 28 | 28 | | | | |
| 401 | Maximum electric defrost duration Note: Off cycle defrosts are assumed to be longer than this setting. | | | | 15 - 40 | 25 | | | | |
| 404 | Maximum number of electric defrosts allowed at any time | | | | 1 - 28 | 3 | | | | |

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| DEFROST DATA | | | | | | |
| Daylight saving operation added from v0.00.4. Time and defrost schedule can be automatically displayed as standard time or daylight saving (summer) time if desired. When daylight saving is operational the displayed schedule is automatically adjusted so that defrost still occur at the same "standard time". | | | | | | |
| 410 | Start time for first daily defrost | SYSTEM | | | | |
| 420 | | 1 | | | 00:00 - 23:59 | TIME 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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| <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. Forced functions remain forced if the Maintenance Unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged.</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 | 0 deF dr.dn F.dEF F.rEF FAIL d.inh | Refrig. Defrost Drain down Forced defrost Forced refrig. Defrost interface fail Defrost inhibited | | | |
| 4x6 | Drain down time | | | | 0 - 15 | 5 |
| 4x7 | Compressor group associated with this defrost system | 0 Lt.C Ht.C Sat.C | No association Lt compressor group Ht compressor group Satellite compressor group | | 0 - 3 | 0 |
| 4x8 | No of evaporators on this defrost system | 0 1 - 10 | Defrost terminated on time only. JTL units terminate defrost on temp. and inform pack. | | 0 - 10 | 0 |
| 4x9 | No of JTL-controlled evaporators terminated | | | | | |

BITSWITCH SETTINGS

Bitswitches not used

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

| DISPLAY DATA | | CPLT |
|--|--|------|
| NORMAL DISPLAY | | |
| 999.9 | Pressure in psi | |
| -- | Not selected | |
| ALARM TEXT (in descending priority order) | | |
| P.FLd | Plant failed | |
| Hi.dP | High discharge pressure | |
| Hi.Lt | High LT suction pressure | |
| Hi.Ht | High HT suction pressure | |
| Hi.St | High satellite suction pressure | |
| rEF.L | Low level liquid | |
| Lo.Sh | Low suction superheat | |
| CPr | Compressor fault | |
| FAn | Condenser fan problem | |
| OTHER TEXT | | |
| JTL | Start-up text | |
| Lt | LT suction pressure follows this text | |
| Ht | HT suction pressure follows this text | |
| SAt | Satellite suction pressure follows this text | |