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| JTL CABINET CONTROLLER ITEM NUMBERS | | | | | LCPT/LCPN | |
|---|--|--------------------------------------|---|--|--|----------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | BIT | RANGE | ITEM 9 VALUE |
| | | | | 4321 | | |
| 1. Jnet NETWORK IDENTIFICATION | | | | | | |
| 0 | Unit type | LcPt/LcPn | Unit type | | | |
| 19 | Software Version number | | | | | |
| 1 | Unit number | | | | 0.1 - 899.8 | |
| 2. TEMPERATURES | | | | | | |
| Note: From v0.00.7 temperatures can be displayed on the maintenance unit in degrees Celsius or Fahrenheit. The choice is made on item 122. All setpoint ranges in this document are shown in celsius. | | | | | | |
| 20 | Estimated cabinet temperature (calculated from Air on and Air off temperatures) | | | | | |
| 33 | Cabinet temperature ratio (Item 20 calculated as value between Air off and Air on using this ratio) | | | xxCC xxCO xxOC xxOO | 20 - 80 20 - 80 0 - 80 0 - 80 | 50 50 40 60 |
| 21 | Air on temperature | | | | | |
| 36 | Air on sensor selection | OFF AO.En | Disabled Enabled | | 0 - 1 | AO.En |
| 22 (405) | Air off temperature Note: From v0.01.0 the data shown here is calculated as set by item 408 using up to 3 sensors as selected by item 37. | | | | | |
| 37 (409) | Air off sensor selection | Up to v0.00.9 | | | | |
| | | OFF AO.En | Disabled Enabled | | | |
| | | v0.01.0 on | | | | |
| | | 0 1 2 3 4 5 6 7 | none S 1 - - S - 2 - S - - 3 S 1 2 - S 1 - 3 S - 2 3 S 1 2 3 | none selected Sensor 1 Sensor 2 Sensor 3 Sensor 1 & 2 Sensor 1 & 3 Sensor 2 & 3 Sensor 1, 2 & 3 | | 0 - 7 |
| 23 | Evaporator temperature | | | | | |
| 38 | Evaporator sensor selection | OFF EP.En | Disabled Enabled | | 0 - 1 | EP.En |
| 24 | Suction line temperature | | | | | |
| 39 | Suction line sensor selection | OFF SP.En | Disabled Enabled | | 0 - 1 | SP.En |
| 25 | Superheat (Evaporator temp - suction line temp) | | | | | |
| 401 | Air off 1 temperature (v0.01.0 on) | | | | | |
| 402 | Air off 2 temperature (v0.01.0 on) | | | | | |
| 403 | Air off 3 temperature (v0.01.0 on) | | | | | |

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| | | | | | 4321 | | |
| 408 | Overall air off calculation method (v0.01.0 on) | 0 1 2 3 4 5 6 | none Lo.rd Nd.rd Hi.rd A.All A.Lo A.Hi | Lowest air off reading Middle air off reading Highest air off reading Average air off Average of lowest 2 Average of highest 2 | | 1 - 6 | Nd.rd |
| 141 | Termination sensor temperature | | | | | | |
| 147 | Termination sensor selection | OFF ts.En | | | | 0 - 1 | OFF |
| 131 | Fan control sensor temperature | | | | | | |
| 130 | Fan control sensor enabled | OFF E.S.En | | OFF Enabled | | 0 - 1 | OFF |
| 102 | Temperature sensor type selection (v0.00.8 on) LCPT ONLY | 5000 2000 | | JTL sensor (5K) Elm sensor (2K) | | 0 - 1 | 5000 |
| 247 | Site temperature (from broadcast) (v0.01.0 on) | | | | | | |
| 248 | Site humidity (from broadcast) (v0.01.0 on) | | | | | | |
| 122 | Temperature display unit choice (v0.00.7 on) | CELS FAhr | | Celsius Fahrenheit | | 0 - 1 | CELS |
| 3. TEMPERATURE ALARMS | | | | | | | |
| 26 | Average cabinet temperature error | | | | | | |
| 32 | Cabinet overtemperature alarm tolerance | 0.0 | | Disable Ht alarm | xxCC xxCO xxOC xxOO | 0 - 20 0 - 20 0 - 20 0 - 20 | 10 10 5 10 |
| 27 | Average Air off temperature error | | | | | | |
| 431 | Average Air off temperature 1 error (v0.01.3 on) | | | | | | |
| 432 | Average Air off temperature 2 error (v0.01.3 on) | | | | | | |
| 433 | Average Air off temperature 3 error (v0.01.3 on) | | | | | | |
| 34 | Air off over temperature tolerance | 0.0 | | Disable Ht alarm | xxCX xxOX | 0 - 30 0 - 30 | 15 10 |
| 47 | Period over which averages are taken | | | | xxCx xxOx | 00:30 - 03:00 | 01:30 01:00 |

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| | | | | 4321 | | |
| 4. TEMPERATURE CONTROL | | | | | | |
| 30 | Cabinet temperature setpoint (up to v0.00.5) | | | xxCC xxCO xxOC xxOO | -30 to -15 -30 to -15 -5 to +10 -5 to +10 | -20 -26 +1 +4 |
| | Current Cabinet temperature setpoint (see items 123 to 127) (v0.00.6 on) | | | | | |
| 123 | Enable 2nd setpoint | oFF E.2SP | Disabled Enabled | | 0 - 1 | oFF |
| 124 | Cabinet temperature setpoint - primary (target for item 20) | | | xxCC xxCO xxOC xxOO | -30 to -15 -30 to -15 -5 to +10 -5 to +10 | -20 -26 +1 +4 |
| 125 | Alternative cabinet temperature setpoint - secondary | | | xxCC xxCO xxOC xxOO | -30 to -15 -30 to -15 0 to 10 0 to 10 | -20 -26 5 10 |
| 126 | Selected setpoint in operation | Lo Hi | Main setpoint (item 124) Alternative setpoint (item 125) | | 0 - 1 | Lo |
| 31 (407) | Air off setpoint (starting point and lower limit for item 28) | | | xxCC xxCO xxOC xxOO | - 39 to -20 - 39 to -20 - 10 to +5 - 10 to +5 | - 27 - 33 - 6 - 4 |
| 140 | Temperature deadband | | | | 0.4 - 3.0 | 0.4 |
| 48 | Max starts/hour (Anti-shortcycling timer when using liquid valve relay to control a condensing unit) | 0 1 2 3 | unLm 10.PH 15.PH 20.PH | Unlimited 10 starts per hour 15 starts per hour 20 starts per hour | 0 - 3 | unLm |
| 28 (406) | Current Air off temperature setpoint (calculated by controller) | | | | | |
| 29 | Current Evaporator temperature setpoint (calculated by controller) | | | | | |
| 240 | Liquid line valve open percentage for last sample period (v0.00.9 on) | | | | | |
| 241 | Average liquid line valve open percentage over data logging interval period (v0.00.9 on) | | | | | |

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| | | | | | | | |
| 5. INPUTS & OUTPUTS | | | | | | | |
| 70 | Operating mode | rEFr dEFr dF.rc dr.dn Li.Ho Pu.dn Sh.dn | | Refrigeration Defrost Defrost recovery Drain down Liquid hold off Pump down Shutdown | | | |
| 71 | Inputs | IP-1 IP-2 Both | IP1- IP-2 IP12 | Defrost input on Lighting override input on Both inputs on | | | |
| 72 | Defrost relay (function depends on item 75) | 0 or oFF dt.on dc.on | | Relay deenergised Defrost termination on Defrost control on | | | |
| 73 | Liquid solenoid relay | OFF LS.on | | Off Demanding refig. | | | |
| 74 | FANS/Heater relays | 0 or oFF Fn.on Hr.on | | Off Fans on Heater on | | | |
| 75 | Defrost relay mode selection | d.tEr d.Con | | Defrost termination Defrost control | | up to v0.00.4 | |
| | | | | | | 0 - 1 | d.tEr |
| | | | | | | v0.00.5 on | |
| | | 0 - 1 | d.Con | | | | |
| 106 | Auxiliary output selection | 0 1 2 | nonE FAn.S Htr.S | Not used Fan control Heater | | 0 - 2 | Not used |

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| | | | | 4321 | | |
| 6. SUCTION PRESSURE OPTIMISATION | | | | | | |
| 200 | Disable suction pressure optimisation for this unit when both air sensors are faulty | En.SO di.SO | Enable Disable | | 0 - 1 | En.SO |
| 201 | Exclude evaporator from suction pressure optimisation (Data to network) | OFF in.SO | Off Inhibit from suction optimisation | | | |
| 203 | Related suction line from plant controls (Data from network) | 0 or nonE Lt Ht SAt | Not selected Low temperature High temperature Satellite | | | |
| 202 | Raw network data for optimiser from plant (Binary data interpreted on item 203) | | | | | |
| 211 | Evaporator suction group - Required by Mark 2 optimisers (Data to network) (v0.01.0 on) | 0 1 2 3 | nonE Lt Ht SAt | Not selected Low temperature High temperature Satellite | 0 - 3 | nonE |
| 70 212 | Operating mode | rEFr dEFr dF.rc dr.dn Li.Ho Pu.dn Sh.dn | Refrigeration Defrost Defrost recovery Drain down Liquid hold off Pump down Shutdown | | | |
| 217 | Plant data to network (binary value interpreted on item 211) (v0.01.0 on) | | | | | |

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| | | | | 4321 | | | |
| 7. DEFROST CONTROL | | | | | | | |
| 7.1 DATA & STRATEGIES | | | | | | | |
| 40 | Duration of last defrost | | | | | | |
| 41 | Time since end of last defrost | | | | | | |
| 42 | Duration of current defrost | | | | | | |
| 107 (411) | Defrost strategy | 0 | nonE | None | up to v0.00.4 | | |
| | | 1 | SL.in | Suction initiated | | | |
| | | 2 | n.i.L.b or nc.in | Network initiated (learned backup) | xxCC xxCO xxOC xxOO | 0 - 4 0 - 4 0 - 4 0 - 4 | SL.in SL.in SL.in rt.in |
| | | 3 | rt.in | Internal clock initiated | | | |
| | | 4 | iP.in | External clock initiated | | | |
| | | | | Unused | | | |
| | | 5 | - | Unused | | | |
| | | 6 | - | Network initiated (fixed schedule backup) | | 0 - 4 | none |
| | | 7 | n.i.F.b | Coordinated defrost (learned backup) | | | |
| | | 8 | c.d.L.b | Coordinated defrost (fixed schedule backup) | | | |
| 9 | c.d.F.b | Coordinated defrost (fixed schedule backup) | | | | | |
| | | | | | v0.00.5 - v0.00.8 | | |
| | | | | | v0.00.9 - v0.01.1 | | |
| | | | | | 0 - 7 | none | |
| | | | | | v0.01.2 | | |
| | | | | | 0 - 9 | none | |
| 412 | Current defrost initiation strategy in operation (v0.01.2 on) | nonE SL.in JnEt rt.in iP.in | None Suction initiated Jnet network initiated Internal clock initiated External clock initiated | | | | |
| 69 | No of defrosts required per day (Note, when the defrost strategy is set to coordinated defrost this item sets the number of defrosts a day that are required.) | 0 | Function disabled | | 0 - 6 | 3 | |
| | | 1 - 6 (up to v0.00.8) 1 - 12 (from v0.00.9) | No of defrosts | | 0 - 12 | 3 | |
| 61 | Pump down time | | | | 00:00 - 00:10 | 00:00 | |

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| | | | | 4321 | | |
| 7.2 REAL TIME INITIATED DEFROST TIMES | | | | | | |
| When a 12 hour schedule is selected (item 60) the defrosts repeat on a 12 hour cycle ie., if 08:00 is selected then a 2nd defrost occurs at 20:00 (and vice versa) | | | | | | |
| Daylight saving operation added from v0.00.7. 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". | | | | | | |
| 51 | Defrost time 1 | 00:00 00:01 - 23:59 | Defrost disabled Defrost enabled | xxCC xxCO xxOC xxOO | 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 | 01:00 02:00 03:00 04:00 |
| 52 | Defrost time 2 | 00:00 00:01 - 23:59 | Defrost disabled Defrost enabled | xxCC xxCO xxOC xxOO | 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 | 07:00 08:00 09:00 10:00 |
| 53 | Defrost time 3 | 00:00 00:01 - 23:59 | Defrost disabled Defrost enabled | xxCC xxCO xxOC xxOO | 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 | 13:00 14:00 15:00 16:00 |
| 54 | Defrost time 4 | 00:00 00:01 - 23:59 | Defrost disabled Defrost enabled | xxCC xxCO xxOC xxOO | 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 00:00 - 23:59 | 19:00 20:00 21:00 22:00 |
| 55 | Defrost time 5 | 00:00 00:01 - 23:59 | Defrost disabled Defrost enabled | | 00:00 - 23:59 | 00:00 |
| 56 | Defrost time 6 | 00:00 00:01 - 23:59 | Defrost disabled Defrost enabled | | 00:00 - 23:59 | 00:00 |
| 60 | Defrost schedule selection | 24 hr 12 hr | 24 hour schedule 12 hour schedule | | 0 - 1 | 24 hr |
| 43 | Time next defrost is due | | | | | |
| 7.3 SUCTION INITIATED DEFROST | | | | | | |
| 58 | Defrost initiation temperature (suction line sensor) | | | xxCC xxCO xxOC xxOO | -5 - +20 -5 - +20 0 - 20 0 - 20 | 0 0 +15 +10 |
| 7.4 CONTACT INITIATED DEFROST | | | | | | |
| 65 | Invert defrost input | no YES | Input=defrost No input=defrost | | 0 - 1 | no |
| 7.5 Jnet NETWORK INITIATED DEFROST | | | | | | |
| 46 | Jnet Network initiated defrost command status | P.dEF F.dEF 0 or none | Defrost Forced defrost No command | | | |
| 261 to 272 | Defrost schedule (12 times starting at item 261 through to 272) (v0.00.9 on) | | | | | |

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| | | | | 4321 | | | |
| 7.6 COORDINATED DEFROST INITIATION (v0.01.2 on) | | | | | | | |
| 69 | No of defrosts required per day (Note, when the defrost strategy is set to coordinated defrost this item sets the number of defrosts a day that are required.) | 0 | Function disabled | | 0 - 6 | 3 | |
| | | 1 - 6 (up to v0.00.8) 1 - 12 (from v0.00.9) | No of defrosts | | 0 - 12 | 3 | |
| 216 | Defrost requirement to defrost coordinator (v0.01.2 on) | | | | | | |
| 223 | Defrost requirement priority (v0.01.2 on) | | | | 1 - 8 | 1 | |
| 211 | Evaporator suction group (v0.01.0 on) | 0 1 2 3 | nonE Lt Ht SAT | Not selected Low temperature High temperature Satellite | 0 - 3 | nonE | |
| 214 (414) | Defrost heater choice (v0.01.0 on) | 0 | rEd | Electric red phase | up to v0.01.1 | rEd | |
| | | 1 | YELL | Electric yellow phase | 0 - 3 | | |
| | | 2 | bLuE | Electric blue phase | from v0.01.2 | | |
| | | 3 | 3 - Ph | Electric 3 phase | 0 - 6 | | |
| 213 | Electric circuit choice (depends on item 214) (v0.01.0 on) | 4 | GAS.2 | 2 pipe gas | up to v0.01.1 | None | |
| | | 5 | GAS.3 | 3 pipe gas | | | |
| | | 6 | oFF.C | Off cycle | | | |
| | | 0 | nonE | None | | | 0 - 7 |
| | | 1 | cct1 | Circuit 1 | | | |
| | | 2 | cct2 | Circuit 2 | | | |
| | | 3 | cct3 | Circuit 3 | | | |
| 4 | cct4 | Circuit 4 | v0.01.2 on | | | | |
| 5 | cct5 | Circuit 5 | | | | | |
| 6 | cct6 | Circuit 6 | | | | | |
| 7 | cct7 | Circuit 7 | 1 - 7 | 1 | | | |
| 46 (215) | Jnet network initiated defrost command status | P.dEF F.dEF nonE | Defrost Forced defrost No command | | | | |
| 217 | Evaporator data to plant (v0.01.0 on) | | | | | | |
| 219 | Jnet network defrost arrangement (v0.01.0 on) | nonE cord dEF.S PrEd | None Defrost co-ordinator present on network Timed defrost scheduler present on network Predict co-ordinator present on network | | | | |
| 220 | Defrost coordinator status (v0.01.0 on) | oFF cord | No defrost coordinator Defrost coordinator present on network | | | | |

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| | | | | 4321 | | |
| 7.7 DEFROST TERMINATION | | | | | | |
| 144 (413) | Termination method Selection | EuAP A.OFF tEr tot | Evaporator sensor Air off sensor Termination sensor Time only | xxCX xxOC | 1 - 4 | EuAP |
| | | | | xx00 | 1 - 4 | tot |
| 141 | Termination sensor temperature | | | | | |
| 147 | Termination sensor selection | OFF tS.En | | | 0 - 1 | OFF |
| 50 | Defrost termination temperature (the sensor used is item 144) | | | xxCC xxCO xxOC xx00 | 0 - 20 0 - 20 0 - 20 0 - 20 | 15 15 12 20 |
| 145 | Minimum defrost duration (Defrost heater cycles on termination temperature (item 50) as required during this time) | | | | 00:00 - 00:30 | 00:10 |
| 57 | Maximum defrost duration | | | xxCC xxCO xxOC xx00 | 00:05 - 00:40 00:05 - 00:40 00:05 - 00:59 00:05 - 00:59 | 00:20 00:20 00:20 00:40 |
| 59 | Drain down duration | | | | 00:00 - 00:10 | 00:05 |
| 49 | Liquid hold off duration (starts when drain down completed) | | | | 00:00 - 00:10 | 00:00 |
| 7.8 DEFROST FORCING FUNCTIONS | | | | | | |
| Forced functions remain forced if the Maintenance Unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged. | | | | | | |
| 77 | Forced defrost (When item 107 is set to Jnet network initiated defrost then forced defrost sends the command to the plant for action. It is NOT actioned locally) | OFF Fd.on | Off Forced defrost on | | 0 - 1 | |
| 78 | Inhibit defrost | OFF no.dF | Off No defrosts | | 0 - 1 | |
| 79 | Forced refrigeration | OFF Fr.on | Off Forced refrigeration | | 0 - 1 | |
| 222 | Enable forced defrost requirement to defrost coordinator (v0.01.2 on) | oFF F.r.En | Disabled Enabled | | 0 - 1 | 0 |
| 221 | Forced defrost requirement to defrost coordinator (requires item 222 set to 1) (v0.01.2 on) | 0 - 63 | Forced value | | | |

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| | | | | 4321 | | | |
| 8. FAN CONTROL | | | | | | | |
| 108 | Fan control (106 must be set to FAn.S) | 1 | F.on | Fan runs always Fan off during defrost Fan controlled during defrost | | up to v0.00.9 | F.on |
| | | 2 | F.oFF | | | 1 - 2 | |
| | | 3 | F.c.d.d | | | v0.01.0 on | |
| | | | | | | 1 - 3 | |
| 146 | Temperature to turn fan off during defrost. (v0.01.1 on) Depends on item 108 | | | | xxCx xxOx | -12.0 to -2.0 0.0 to 20.0 | -7.0 10.0 |
| 109 | Fan delay after defrost (v0.00.5 on) | 00:00 | Fans cycle on evap temperature | | | 00:00 - 00:10 | 00:00 |
| 150 | Temperature to bring fan on after defrost. (v0.01.0 on) Depends on item 108 | | | | xxCx xxOx | -20.0 to -10.0 -5.0 to 5.0 | -15.0 0.0 |
| 130 | Fan control sensor enabled | OFF E.S.En | OFF enabled | | | 0 - 1 | OFF |
| 131 | Fan control sensor temperature | | | | | | |
| 132 | Fan control setpoint | | | | xxCC | -30 to -15 | -25.0 |
| | | | | | xxCO | -30 to -15 | -30.0 |
| | | | | | xxOC | -5 to +8 | 0.0 |
| | | | | | xxOO | -5 to +8 | 2.0 |

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| | | | | 4321 | | |
| 9. Jnet NETWORK LIGHTING CONTROL | | | | | | |
| Forced functions remain forced if the Maintenance Unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged. | | | | | | |
| 110 | Select Jnet network lighting control | OFF LC.on | off Lighting control function selected | | 0 - 1 | LC.on |
| 113 | Lights and blinds | on L.OFF | Lights on and blinds up Lights off and blinds down | | | |
| 111 | Jnet network lighting unit network command | LU.Co nonE | Lighting off command No command | | | |
| 112 | Over ride input | OFF L.O.IP | No input Over ride input on | | | |
| 118 | Lighting contactor type selection (shown for lights-on state) | n.o n.c | normally open normally closed | | 0 - 1 | n.c |
| 119 | Lights off during shutdown selection | OFF En.L.S | Off Lights off during shutdown | | 0 - 1 | Off |
| 120 | Lighting override timer (time delay before lighting off/blinds close on network control) | | | | 00:30 - 02:00 | 02:00 |
| 116 | Manual lights on | OFF P.on | OFF Lights on | | | |
| 117 | Manual lights off | OFF P.off | OFF Lights off | | | |
| 114 | Force lights on | OFF L.on | Off Lights on | | 0 - 1 | |
| 115 | Force lights off | OFF L.OFF | Off Lights off | | 0 - 1 | |





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| | | | | 4321 | | |
| 10. Jnet COMMAND FUNCTIONS | | | | | | |
| 62 | Jnet network controlled Shutdown selection | oFF Sh.dn | Disabled Enabled | | 0 - 1 | oFF |
| 63 | Jnet network command for shutdown | run or nonE Sh.dn FAn.S | No command Shutdown Fans only shutdown | | | |
| 133 | Enable plant to override temperature control and run refrigeration regardless of the temperature setpoint | Off nrc.E | Disabled Enabled | | 0 - 1 | Off |
| 134 | Enable Jnet network command to cut off refrigeration in event of plant fault | Off | Disabled | | 0 - 1 | Off |
| 135 | Display Jnet network commands | 0 or nonE O.S.df PL.Ft P.C.Ft | No command Other associated systems on defrost Plant fault Plant comms fault | | | |
| 11. DISPLAY FUNCTIONS | | | | | | |
| 129 | Display type selection (v0.00.7 on) | 2 3 | Lcd.1 Lcd.8 | LCD1-7 types LCD8 type | | 2 - 3 Lcd.1 |
| 122 | Temperature display unit choice (v0.00.7 on) | CELS FAhr | Celsius Fahrenheit | | 0 - 1 | CELS |
| 136 | Enable fans only operation from display switches | Off E.d.Fo | Disable Enable | | 0 - 1 | Off |
| 138 | Enable Shutdown from display switches | OFF E.d.Sd | disable Enable | | 0 - 1 | Off |
| 121 | Display switch 1 status | up to v0.00.6 | | | | |
| | | OFF S1.IP | Off Position 1 | | | |
| | | v0.00.7 on | | | | |
| | | Si - - Si1 - Si- 2 Si12 | OFF Position 1 Position 2 Both | | | |
| 122 | Display switch 2 status (up to v0.00.6) | OFF S2.IP | Off Position 2 | | | |

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| | | | | 4321 | | |
| 12. CLOCK CALENDAR | | | | | | |
| Note, from v0.00.7 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 (v0.00.7 on) | Sun - Sat | 0 = Sunday 1 = Monday etc | | | |
| 4 | Date (v0.00.7 on) | | | | 01:01 - 31:12 | |
| 5 | Year (v0.00.7 on) | | | | 1992 - 2022 | |
| 18 | Daylight saving enable (v0.00.7 on) | Stnd dAY.S | Standard time Daylight saving time | | 0 - 1 | Stnd |
| 13. RESTORE FACTORY DEFAULTS | | | | | | |
| To set the factory defaults into the memory of the controller, first set the bitswitches as shown, then set item 9 to the set default value of "1234". This should be done on initial commissioning of the unit or when the unit is being installed as a replacement part. | | | | | | |
| 9 | Set default values selected by Bitswitch Note: Setting the bitswitches alone has no effect. | 1 | Set default values up to v0.00.6 | xxCC xxCO xxOC xxOO | Frozen food Ice cream Chiller Produce (off cycle) | |
| | | 1234 | Set default values from v0.00.7 | | | |
| | | 1066 | Write to NVRAM without delay from v0.00.8 | | | |
| | | | | | where C = CLOSED or ON O = OPEN or OFF x = Don't care | |
| | | | | | For unmarked switches C = dot visible O = dot not visible | |

| JTL CABINET CONTROLLER ITEM NUMBERS | | | | | LCPT/LCPN | |
|-------------------------------------|---|-----------------------|------------------------------|------|-----------|--------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | BIT | RANGE | ITEM 9 VALUE |
| | | | | 4321 | | |
| 14. SYSTEM ALARMS | | | | | | |
| 80 | Group alarm 81 - 88 | 0 1 - 255 | No alarms Check 81 - 88 | | | |
| 81 | Cabinet overtemperature | CLr C.Ht | No fault Fault | | | |
| 82 | Air off 1 overtemperature | CLr A.Ht or A1.Ht | No fault Fault | | | |
| 83 | Air on sensor fault | CLr AO.Pr | No fault Fault | | | |
| 84 | Air off 1 sensor fault | CLr AF.Pr or A1.Pr | No fault Fault | | | |
| 85 | Sensor power supply fault | CLr PS.Ft | No fault Fault | | | |
| 87 | Shutdown alarm | CLr Sh.dn | No fault Fault | | | |
| 88 | All sensors faulty, deselected or disconnected | CLr t.SEn | No fault Fault | | | |
| 90 | Group alarm 91 - 98 | 0 1 - 255 | No alarms Check 91 - 98 | | | |
| 91 | Termination sensor fault | CLr dt.Pr | No fault Fault | | | |
| 92 | Evaporator sensor fault | CLr EP.Pr | No fault Fault | | | |
| 93 | Suction line sensor fault | CLr SL.Pr | No fault Fault | | | |
| 94 | Expected defrosts have not been detected (Note, This alarm normally depends on the setting in item 69. When the defrost initiation strategy is set to coordinated defrost the alarm occurs 3 hours after the defrost requirement has been set when no defrost has occurred). | CLr dEF.F | No fault Fault | | | |
| 96 | Energy saving sensor fault | CLr E.S.Pr | No fault Fault | | | |
| 250 | Group alarms 251 - 258 | 0 1 - 255 | No alarms Check 251 - 258 | | | |
| 251 | Forced defrost activated | CLr F.dEF | No fault Forced defrost | | | |
| 252 | Network communications failure (v0.00.9 on) | CLr FAIL | No fault Comms failure | | | |
| 253 | Air off 2 overtemperature (v0.01.0 on) | CLr A2.Ht | | | | |
| 254 | Air off 3 overtemperature (v0.01.0 on) | CLr A3.Ht | | | | |
| 255 | Air off 1 sensor fault (v0.01.0 on) | CLr A1.Sn | | | | |
| 256 | Air off 2 sensor fault (v0.01.0 on) | CLr A2.Sn | | | | |
| 257 | Air off 3 sensor fault (v0.01.0 on) | CLr A3.Sn | | | | |

| JTL CABINET CONTROLLER ITEM NUMBERS | | | | | LCPT/LCPN | |
|---|---|-----------------------------------|--|------------------------------|-----------|--------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | BIT | RANGE | ITEM 9 VALUE |
| | | | | 4321 | | |
| 258 | Backup defrost strategy in operation | CLr d.bAc | No fault Backup defrost | | | |
| 15. DIAGNOSTIC & TEST FUNCTIONS | | | | | | |
| 44 | Power off duration | | | | | |
| 6 | Communications speed (in kilo baud) | 4.8 38.4 | Baud rate Baud rate | | | |
| 7 | Communications (Half duplex) | HALF | 2 wire | | | |
| 973 (from v0.00.7) 204 (up to v0.00.6) | Latest polling interval This time shows the polling interval between the last two successful network awake messages to this unit. | min:sec | | | | |
| 974 (from v0.00.7) 205 (up to v0.00.6) | Time since last awake message | min:sec | | | | |
| 975 (from v0.00.7) 206 (up to v0.00.6) | 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 (from v0.00.7) 207 (up to v0.00.6) | 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 | 0 1 2 3 | Frozen food Ice cream Chiller Produce (off cycle) | xxCC xxCO xxOC xxOO | | |
| 89 | Sensor excitation value (Factory test) | | Not used | | | |
| 99 | Test digital display | CLr SEt | Not active Test active | | 0 - 1 | |
| 100 | Test inputs (v0.01.0 on) | iP - - iP1 - iP - 2 iP12 | No inputs Input 1 on Input 2 on Both inputs on | | | |
| 101 | Test output relays (v0.00.5 on) | CLr SEt | Not active Test active | | 0 - 1 | |
| 121 | Display switch 1 status (v0.00.7 on) | Si - - Si1 - Si- 2 Si12 | OFF Position 1 Position 2 Both | | | |

| JTL CABINET CONTROLLER ITEM NUMBERS | | | | | LCPT/LCPN | |
|-------------------------------------|----------------------------|------------------------------|----------------------------|------|-----------|--------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | BIT | RANGE | ITEM 9 VALUE |
| | | | | 4321 | | |
| 421 | (v0.01.2 on) | Temperature sensor 1 reading | | | | |
| 422 | | Temperature sensor 2 reading | | | | |
| 423 | | Temperature sensor 3 reading | | | | |
| 424 | | Temperature sensor 4 reading | | | | |
| 425 | | Temperature sensor 5 reading | | | | |
| 426 | | Temperature sensor 6 reading | | | | |
| 427 | | Temperature sensor 7 reading | | | | |
| 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 | | | |

| DISPLAY DATA | | LCPT/LCPN | |
|---|---|------------------|--|
| GRAPHICS DISPLAY | | | |
|  | Fans running | | |
|  | Defrost recovery | | |
|  | Defrost | | |
|  | Fault condition | | |
| NORMAL DISPLAY | | | |
| - 99 ^c | Cabinet temperature (item 20 rounded) | | |
| dEF | Defrost | | |
| dEFr | Defrost recovery | | |
| Off | Unit Shutdown or fans only mode (indicated by fan symbol) | | |
| FAnS | Fans only mode | | |
| -- | Display data error | | |
| ALARM TEXT (in descending priority order) | | | |
| t.SEn | All sensors faulty, deselected or disconnected | | |
| Ht | High cabinet or air off temperature | | |
| ISOL | Unit shutdown | | |
| OTHER TEXT | | | |
| JTL | Start-up text | | |