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| JTL CABINET MONITOR ITEM NUMBERS | | | | | DC120 | |
|---------------------------------------|--|--------------|--------------------------|------|-------------|--------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | BIT | RANGE | ITEM 9 VALUE |
| | | | | 4321 | | |
| 1. Jnet NETWORK IDENTIFICATION | | | | | | |
| 0 | Unit type | dc12 | Unit type | | | |
| 19 | Software Version number | | | | | |
| 101 | Unit number channel 1 | | | | 0.1 - 899.9 | |
| 201 | Unit number channel 2 | | | | 0.1 - 899.9 | |
| 2. CHANNEL SELECTION | | | | | | |
| 105 | Channel selection | OFF C1.En | off Channel 1 enabled | | 0 - 1 | Enabled |
| 205 | Channel selection | OFF C2.En | off Channel 2 enabled | | 0 - 1 | Enabled |
| 3. TEMPERATURE | | | | | | |
| 3.1 CHANNEL 1 | | | | | | |
| 120 | Estimated cabinet temperature (calculated from Air on and Air off temperatures) | | | | | |
| 121 (21) | Air on temperature | | | | | |
| 136 | Air on sensor selection | oFF AO.En | Disabled Enabled | | 0 - 1 | AO.En |
| 122 (22) | Air off temperature | | | | | |
| 137 | Air off sensor selection | oFF AF.En | Disabled Enabled | | 0 - 1 | AF.En |
| 133 | Cabinet temperature ratio (Item 120 calculated as value between Air off and Air on using this ratio) | | | | 20 - 80 | 50 |
| 3.2 CHANNEL 2 | | | | | | |
| 220 | Estimated cabinet temperature (calculated from Air on and Air off temperatures) | | | | | |
| 221 (23) | Air on temperature | | | | | |
| 236 | Air on sensor selection | oFF AO.En | Disabled Enabled | | 0 - 1 | AO.En |
| 222 (24) | Air off temperature | | | | | |
| 237 | Air off sensor selection | oFF AF.En | Disabled Enabled | | 0 - 1 | AF.En |
| 233 | Cabinet temperature ratio (Item 220 calculated as value between Air off and Air on using this ratio) | | | | 20 - 80 | 50 |

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| 4. TEMPERATURE ALARMS | | | | | | |
| 4.1 CHANNEL 1 | | | | | | |
| 126 | Average cabinet temperature error | | | | | |
| 130 | Cabinet temperature setpoint (target for item 120) | | | | -35.0 to +10.0 | -20 |
| 132 | Overtemperature alarm tolerance | | | | 0 - 25 | 10 |
| 47 | Period over which average temperatures are taken | | | | 00:30 - 03:00 | 01:00 |
| 4.2 CHANNEL 2 | | | | | | |
| 226 | Average cabinet temperature error | | | | | |
| 230 | Cabinet temperature setpoint (target for item 220) | | | | -35.0 to +10.0 | -20 |
| 232 | Overtemperature alarm tolerance | | | | 0 - 25 | 10 |
| 47 | Period over which average temperatures are taken | | | | 00:30 - 03:00 | 01:00 |

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| | | | | 4321 | | |
| 5. INPUTS | | | | | | |
| 71 | Input status NOTE: If more than one input is present the numbers shown in brackets are added together and displayed instead of the text | d.in.1 (1) d.in.2 (2) iP.3 (4) iP.4 (8) P.in.1 (16) P.in.2 (32) iP.7 (64) iP.8 (128) | Defrost input 1 Defrost input 2 Spare input 3 Spare input 4 Plant input 1 Plant input 2 Spare input 7 Spare input 8 | | | |
| 55 | Invert plant inputs (v0.00.0 only) | no YES | Input present = alarm Input absent = alarm | | 0 - 1 | no |
| 66 | Invert plant inputs (v0.00.1 on) | no YES | Input present = alarm Input absent = alarm | | 0 - 1 | no |
| 5.1 CHANNEL 1 | | | | | | |
| 170 | Operating mode | rEFr dEFr dF.rc Sh.dn | Refrig. Defrost Defrost recovery Shutdown | | | |
| 171 | Defrost input | OFF dF.iP | No defrost Defrost contacts closed | | | |
| 172 | Alarm input | OFF AL.iP | No alarm Alarm present | | | |
| 5.2 CHANNEL 2 | | | | | | |
| 270 | Operating mode | rEFr dEFr dF.rc Sh.dn | Refrig. Defrost Defrost recovery Shutdown | | | |
| 271 | Defrost input | OFF dF.iP | No defrost Defrost contacts closed | | | |
| 272 | Alarm input | OFF AL.iP | No alarm Alarm present | | | |

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| 6. DEFROST | | | | | | |
| 6.1 DEFROST DATA & STRATEGY | | | | | | |
| 107 | Defrost strategy selection | v0.00.2 | | | | |
| | | 0 nc.in iP.in | None Network initiated Input initiated | | 0 - 2 | iP.in |
| | | v0.00.3 on | | | | |
| | | 0 nc.in nc.in iP.in iP.in AF.in AF.in | None Network initiated Input initiated Air Off initiated | | 0 - 6 | iP.in |
| 69 | Number of defrosts expected per day | 0 1 - 6 | Disable alarm 94 Alarm enabled | | 0 - 6 | 3 |
| 6.1.1 CHANNEL 1 DATA | | | | | | |
| 140 | Duration of last defrost | | | | | |
| 141 | Time since end of last defrost | | | | | |
| 142 | Duration of current defrost | | | | | |
| 6.1.2 CHANNEL 2 DATA | | | | | | |
| 240 | Duration of last defrost | | | | | |
| 241 | Time since end of last defrost | | | | | |
| 242 | Duration of current defrost | | | | | |
| 6.2 AIR TEMPERATURE INITIATED DEFROST | | | | | | |
| 158 | Defrost initiation temperature (air off) Channel 1 (v0.00.3) | | | | 0.0 - 30.0 | 15.0 |
| 258 | Defrost initiation temperature (air off) Channel 2 (v0.00.3) | | | | 0.0 - 30.0 | 15.0 |
| 6.3 CONTACT INITIATED DEFROST | | | | | | |
| 65 | Invert defrost inputs | no YES | Input present = defrost Input absent = defrost | | 0 - 1 | no |

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| 6.4 NETWORK INITIATED DEFROST | | | | | | |
| 45 | Network initiated defrost selection (see item 107) (up to v0.00.1) | n.I.dF oFF | Enabled Disable | | 0 - 1 | oFF |
| 146 | Network initiated defrost command status. Channel 1 | P.dEF F.dEF 0 | Pack on defrost Pack on forced defrost Pack not on defrost | | | |
| 246 | Network initiated defrost command status. Channel 2 | P.dEF F.dEF 0 | Pack on defrost Pack on forced defrost Pack not on defrost | | | |
| 6.5 DEFROST TERMINATION | | | | | | |
| 157 | Defrost termination time limit Channel 1 | | | | 00:15 - 01:00 | 00:30 |
| 257 | Defrost termination time limit Channel 2 | | | | 00:15 - 01:00 | 00:30 |
| 7. Jnet COMMAND FUNCTIONS | | | | | | |
| 62 | Network controlled Shutdown selection | oFF Sh.dn | Disabled Enabled | | 0 - 1 | oFF |
| 163 | Network command for shutdown Channel 1 | run Sh.dn | Run Shutdown | | | |
| 263 | Network command for shutdown Channel 2 | run Sh.dn | Run Shutdown | | | |
| 8. 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 | | | | 0 - 1 | |
| 9. SYSTEM ALARMS | | | | | | |
| 80 | Group alarm 81 - 88 | 0 1 - 255 | No alarms Check 81 - 88 | | | |
| 85 | Thermistor power supply fault | CLr PS.Ft | No fault Fault | | | |
| 88 | All sensors faulty, deselected or disconnected | CLr t.SEn | No fault Fault | | | |

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| 9.1 CHANNEL 1 | | | | | | |
| 180 | Group alarm 81 - 88 | 0 1 - 255 | No alarms Check 81 - 88 | | | |
| 181 | Cabinet overtemperature | Clr C.Ht | No fault Fault | | | |
| 182 | Air off overtemperature | Clr A.Ht | No fault Fault | | | |
| 183 | Air on sensor fault | Clr AO.Pr | No fault Fault | | | |
| 184 | Air off sensor fault | Clr AF.Pr | No fault Fault | | | |
| 186 | Plant alarm | Clr P.AL | No fault Plant alarm | | | |
| 187 | Unit shutdown | Clr Sh.dn | Normal operation Shutdown | | | |
| 190 | Group alarm 191-198 | 0 1 - 255 | No alarms Check 91 - 98 | | | |
| 194 | Expected defrosts have not been detected | Clr dEF.F | No fault Fault | | | |
| 9.2 CHANNEL 2 | | | | | | |
| 280 | Group alarm 81 - 88 | 0 1 - 255 | No alarms Check 81 - 88 | | | |
| 281 | Cabinet overtemperature | Clr C.Ht | No fault Fault | | | |
| 282 | Air off overtemperature | Clr A.Ht | No fault Fault | | | |
| 283 | Air on sensor fault | Clr AO.Pr | No fault Fault | | | |
| 284 | Air off sensor fault | Clr AF.Pr | No fault Fault | | | |
| 286 | Plant alarm | Clr P.AL | No fault Plant alarm | | | |
| 287 | Unit shutdown | Clr Sh.dn | Normal operation Shutdown | | | |
| 290 | Group alarm 291-298 | 0 1 - 255 | No alarms Check 91 - 98 | | | |
| 294 | Expected defrosts have not been detected | Clr dEF.F | No fault Fault | | | |

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| 10. DIAGNOSTIC & TEST FUNCTION | | | | | | |
| 6 | Communications speed | Up to v0.00.1 | | | | |
| | | 4800 600 | Baud rate Baud rate | | | |
| | | v0.00.2 on | | | | |
| | | 38.4 4.8 | Kilobaud rate Kilobaud rate | | | |
| 7 | 2/4 wire Communications choice (Half / Full duplex) | HALF FULL | 2 wire 4 wire | | 0 - 1 | HALF |
| 89 | Thermistor excitation value (Factory test) | | Not used | | | |
| 71 | Input status NOTE: If more than one input is present the numbers shown in brackets are added together and displayed instead of the text | d.in.1 (1) d.in.2 (2) iP.3 (4) iP.4 (8) P.in.1 (16) P.in.2 (32) iP.7 (64) iP.8 (128) | Defrost input 1 Defrost input 2 Spare input 3 Spare input 4 Plant input 1 Plant input 2 Spare input 7 Spare input 8 | | | |
| 21 | Air on temperature Channel 1 | | | | | |
| 22 | Air off temperature Channel 1 | | | | | |
| 23 | Air on temperature Channel 2 | | | | | |
| 24 | Air off temperature Channel 2 | | | | | |
| 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 | | | |