

CONTENTS

1. Jnet NETWORK IDENTIFICATION 2

2. PRESSURES 2

 2.1 SUCTION PRESSURE 2

 2.2 DISCHARGE PRESSURE 2

3. TEMPERATURES 3

4. SUCTION PRESSURE CONTROL 4

5. COMPRESSOR CONTROL 4

 5.1 COMMON DATA 4

 5.2 COMPRESSOR DATA 5

 5.3 COMPRESSOR INPUT AND OUTPUT STATUS 6

6. INVERTER DATA 6

7. DISCHARGE PRESSURE CONTROL 7

8. CONDENSER CONTROL 8

 8.1 CONDENSER INPUT & OUTPUT STATUS 8

9. INPUTS AND OUTPUTS 8

10. DISPLAY FUNCTIONS 8

11. CLOCK CALENDAR 9

12. RESTORE FACTORY DEFAULTS 9

13. RESTORE PARAMETES FROM NETWORK 9

14. SYSTEM ALARMS 10

15. DIAGNOSTIC & TEST FUNCTIONS 11

DISPLAY DATA 12

| JTL COMPRESSOR PACK ITEM NUMBERS (For low temperature CO2 Packs) | | | | | | EPIL | |
|--|--|----------------|--|----------------------|-------------|--------------------|-----|
| ITEM | DESCRIPTION | CODE | CODE MEANING | FACTORY DEFAULT | RANGE | ITEM 9 VALUE | |
| 1. Jnet NETWORK IDENTIFICATION | | | | | | | |
| 0 | Unit type | EPIL | Unit type | | | | |
| 19 | Software version number | | | | | | |
| 1 | Unit number | | | | 0.1 - 899.9 | | |
| 2. PRESSURES | | | | | | | |
| <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. 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 |
| 2.1 SUCTION PRESSURE | | | | | | | |
| 21 | Suction pressure | | | | | | |
| 146 | Average suction pressure | | | | | | |
| 42 | High suction pressure alarm level | | | | 200 - 300 | 250 | |
| 41 | Low suction pressure alarm level | | | | 100 - 150 | 125 | |
| 121 | Pressure transducer selection | OFF St.En | Disabled Enabled | | 0 - 1 | St.En | |
| 126 | Absolute suction pressure transducer selection | St.GA St.Ab | Gauge (0 to 35 bar) Absolute (-1 to 34 bar) | | 0 - 1 | St.Ab | |
| 2.2 DISCHARGE PRESSURE | | | | | | | |
| 22 | Discharge pressure | | | | | | |
| 148 | Average discharge pressure | | | | | | |
| 52 | High discharge pressure alarm level | | | | | up to v0.00.1 | |
| | | | | | | 550 - 750 | 600 |
| | | | | | | v0.00.2 to v0.00.3 | |
| | | | | | | 475 - 580 | 525 |
| | | | | | | v0.00.4 on | |
| | | | | 450 - 580 | 507.5 | | |
| 51 | Low discharge pressure alarm level | | | | 250 - 350 | 300 | |
| 122 | Discharge pressure transducer selection | OFF Dt.En | Disabled Enabled | | 0 - 1 | Dt.En | |

| JTL COMPRESSOR PACK ITEM NUMBERS (For low temperature CO2 Packs) | | | | | | EPIL |
|---|---|--------------|--------------------------|--------------------|------------|--------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | FACTORY DEFAULT | RANGE | ITEM 9 VALUE |
| 3. TEMPERATURES | | | | | | |
| Note: Temperatures can be displayed on the maintenance unit in degrees celsius or fahrenheit. The choice is made on item 178. All setpoint ranges are shown in celsius. | | | | | | |
| 178 | Temperature display unit choice | CELS FAhr | Celsius Fahrenheit | | 0 - 1 | CELS |
| 31 | Suction gas temperature | | | | | |
| 131 | Suction temperature | OFF t1.En | Not selected Selected | | 0 - 1 | t1.En |
| 32 | Discharge temperature | | | | | |
| 132 | Discharge temperature | OFF t2.En | Not selected Selected | | 0 - 1 | t2.En |
| 33 | Saturated gas temperature | | | | | |
| 133 | Saturated gas temperature | OFF t3.En | Not selected Selected | | 0 - 1 | t3.En |
| 35 | Subcooled liquid temperature | | | | | |
| 135 | Subcooled liquid temperature | OFF t5.En | Not selected Selected | | 0 - 1 | t5.En |
| 37 | Plant room temperature | | | | | |
| 137 | Plant room temperature | OFF t7.En | Not selected Selected | | 0 - 1 | t7.En |
| 144 | Minimum superheat | 0.0 | Alarm disabled | | 0.0 - 20.0 | 0.0 |
| 141 | Suction superheat | | | | | |
| 157 | Refrigerant type | 9 744 | R744 (CO2) | | | R744 |
| 897 | Site temperature (from broadcast v0.01.0 on) | | | | | |
| 898 | Site relative humidity (from broadcast v0.01.0 on) | | | | | |
| 896 | Site absolute humidity (from broadcast v0.01.0 on) | | | | | |
| 899 | Outside temperature (from broadcast v0.01.0 on) | | | | | |

| JTL COMPRESSOR PACK ITEM NUMBERS (For low temperature CO2 Packs) | | | | | EPIL | |
|---|--|--------------|-----------------------|--------------------|--------------|--------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | FACTORY DEFAULT | RANGE | ITEM 9 VALUE |
| 4. SUCTION PRESSURE CONTROL | | | | | | |
| If suction pressure optimisation is selected then the suction pressure setpoints as set in item 40 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 |
| 40 | Suction pressure setpoint | | | | 150 -200 | 175 |
| 151 | Optimised suction setpoint | | | | | |
| 152 | Optimised suction setpoint upper limit | | | | 175 - 225 | 200 |
| 43 | Suction pressure deadband | | | | 0 - 20 | 10 |
| 44 | Suction pressure increase time constant | | | | 1 - 60 | 30 |
| 45 | Suction pressure decrease time constant | | | | 1 - 60 | 15 |
| 48 | Suction 1st stage hold on and fast unload setpoint | | | | 100 - 150 | 125 |
| 195 | Enable low suction pressure safety | OFF LP.En | Disabled Enabled | | 0 - 1 | OFF |
| 196 | Low suction pressure safety shutdown level | | | | 50 - 150 | 100 |
| 191 | Integrated pressure error | | | | | |
| 181 | Suction increase next step (kW) | | | | | |
| 182 | Suction decrease next step (kW) | | | | | |
| 5. COMPRESSOR CONTROL | | | | | | |
| Forced functions remain forced if the Maintenance Unit remains plugged in. They are automatically cancelled 30 minutes after the Maintenance Unit is unplugged. | | | | | | |
| 5.1 COMMON DATA | | | | | | |
| 200 | Number of compressors | | | | 0 - 6 | 6 |
| 205 | Maximum number of compressors allowed | | | | 1 - 6 | 6 |
| 201 | Number of steps on load | | | | | |
| 202 | Number of compressors running | | | | | |
| 203 | Total capacity loaded (in kW) | | | | | |
| 204 | Forced number of suction stages | | | | 0 - 40 | |
| 208 | Minimum compressor stop time (seconds) | | | | 0 - 240 | 30 |
| 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 |

| JTL COMPRESSOR PACK ITEM NUMBERS (For low temperature CO2 Packs) | | | | | | EPIL | |
|--|--|----------------|------------------------|--|-------|--------------|-------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | FACTORY DEFAULT | RANGE | ITEM 9 VALUE | |
| 5.2 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 210-269 for compressors 1 - 6. | | | | | | | |
| 2x5 | Compressor 1 isolation (from v0.00.1 to v0.00.5) This must be enabled for compressor 1 to run. If the inverter is enabled (item 330) and the compressor is set for step control (item 210) in the event of an inverter fault the controller will automatically revert to step control. From v0.00.6) This must be enabled for compressor 1 to run in step control. When item 210 is set to inverter controlled and the inverter is enabled (item 330) and item 215 is enabled in the event of an inverter fault the controller will automatically revert to single stage step control. Compressors 2-6 isolation This must be enabled for the relevant compressor to run. | 0 1 | ISOL OPeR | Not in use In use | | 0 - 1 | OPeR |
| 2x3 | Compressor status | rdy 0 | | Ready to run (no faults) Off or compressor interface fault | | | |
| 2x6 | Compressor capacity in <u>effective</u> kW | | | | | 1 - 100 | 10 |
| 2x0 | Compressor loading method From version v0.00.6 compressor 1 can be set to run as the inverter controlled m/c and automatically revert to a 1 stage m/c on inverter failure | 0 1 2 | none 1.StP 1.con | not controlled 1 step Inverter controlled (compressor 1 only) | | 0 - 1 | 1.StP |
| 2x1 | Number of steps on load | | | | | | |
| 2x8 | Force compressor off | CP.En C.OFF | | Compressor enabled to run Forced off | | 0 - 1 | |
| 2x7 | Forced number of compressor steps | | | | | 0 - 1 | |
| 2x2 | Total running hours (in 10s of hours) | | | | | 0 - 9999 | |
| 37x | Compressor run time last 24 hours (371 for compressor 1 etc) | | | | | | |
| 2x4 | Compressor restart inhibit timer (Seconds) | | | | | | |
| 2x9 | Compressor number of starts per hour | | | | | 4 - 20 | 10 |
| 35x | Average number of starts per hour last 24 hours (351 for compressor 1 etc) | | | | | | |

| JTL COMPRESSOR PACK ITEM NUMBERS (For low temperature CO2 Packs) | | | | | | EPIL | |
|--|--|----------------------------|---|--|-----------|--------------|------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | FACTORY DEFAULT | RANGE | ITEM 9 VALUE | |
| 5.3 COMPRESSOR INPUT AND OUTPUT STATUS | | | | | | | |
| Note 1. If combinations of input or output are present then the value displayed is added up from the individual input/output values as follows: <ul style="list-style-type: none"> 1 Input/Output 1 2 Input/Output 2 4 Input/Output 4 8 Input/Output 5 16 Input/Output 6 32 Input/Output 6 64 Input/Output 7 128 Input 8 | | | | | | | |
| 167 | Compressor output configuration (Note: When compressor 1 is set for 50% unloader then the inverter is disabled) From v0.00.6 when compressor 1 is <u>not</u> set for inverter control all compressors can be used for stage control. | 0 | CF-0 | All compressors 1 stage | | | CF-0 |
| 111 | Compressor input status interface 1 | | | | | | |
| 113 | Compressor output status interface 1 | | | | | | |
| 909 | Interface baud rate (v0.00.5 on) Note, for interface type IF1-6 & IF11-14 this must be set to 600 baud. For interface type IF31-35 this cannot be set to 600 baud. 2400 baud is recommended. The IF settings should be set to match this speed. | 0 1 2 3 4 5 | 0.6 1.2 2.4 4.8 9.6 19.2 | 600 baud 1200 baud 2400 baud 4800 baud 9600 baud 19200 baud | | | |
| 6. INVERTER DATA | | | | | | | |
| From v0.00.6 when compressor 1 is <u>not</u> set for inverter control all compressors can be used for stage control. | | | | | | | |
| 330 | Select inverter control | OFF In.1S | Not selected Inverter selected | | 0 - 1 | | 0 |
| 151 | Optimised suction setpoint | | | | | | |
| 347 | Suction pressure error | | | | | | |
| 344 | Inverter capacity loaded in effective kW | | | | | | |
| 341 | Minimum cut out pressure | | | | 100 - 150 | | 125 |
| 340 | Time constant | | | | 1 - 240 | | 30 |
| 339 | Speed gain | | | | 1-250 | | 100 |
| 345 | Current proportional term | | | | | | |
| 346 | Current Integral term | | | | | | |
| 331 | Number of steps on load | 0 127 | Off Maximum | | | | |
| 332 | Inverter run hours (in 10's of hours) | | | | 0 - 9999 | | |
| 333 | Inverter status | rdy c.hty i.hty 0 | ready to run (Inverter & compressor healthy) Inverter compressor healthy Inverter healthy not ready to run | | | | |
| 343 | Minimum steps allowed | | | | 1 -63 | | 1 |
| 342 | Maximum steps allowed | | | | 64 - 127 | | 127 |

| JTL COMPRESSOR PACK ITEM NUMBERS (For low temperature CO2 Packs) | | | | | | EPIL | |
|---|---|----------------|---------------------------------------|--|--------------|--------------------|-----|
| ITEM | DESCRIPTION | CODE | CODE MEANING | FACTORY DEFAULT | RANGE | ITEM 9 VALUE | |
| 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 | | |
| 909 | Interface baud rate (See section 5.3) (v0.00.5 on) | | | | | | |
| 7. DISCHARGE PRESSURE CONTROL | | | | | | | |
| 394 | Condenser control selection | 4 5 | CS-C CS-d | Simple step sequence Inverted step sequence | v0.00.1 only | | |
| | | | | | 4 - 5 | CS-C | |
| | | | | | v0.00.2 on | | |
| | | | | | 4 | CS-C | |
| 50 | Discharge pressure setpoint | | | | 350 - 550 | 440 | |
| 53 | Discharge pressure deadband | | | | 0 - 20 | 10 | |
| 58 | Disable item 59, suction to discharge capacity request interlock (v0.00.1 on) | oFF d.S.d.l | Enable Disable | | 0 - 1 | oFF | |
| 59 | Discharge pressure to run first stage when compressors loaded (v0.00.1 on) | | | | 300 - 350 | 320 | |
| 54 | Condenser control time constant | | | | 1 - 250 | 30 | |
| 57 | Condenser stage delay (v0.00.2 on) | | | | 10 - 60 | 10 | |
| 56 | Discharge pressure to inhibit HT suction optimisers (v0.00.1 only) | | | | 450 - 550 | 500 | |
| 55 | Discharge pressure to reduce capacity | | | | | up to v0.00.1 | |
| | | | | | | 650 - 850 | 700 |
| | | | | | | v0.00.2 to v0.00.3 | |
| | | | | | | 500 - 600 | 550 |
| | | | | | | v0.00.4 on | |
| 465 - 550 | 478.5 | | | | | | |
| 192 | Integrated discharge pressure error | | | | | | |

| JTL COMPRESSOR PACK ITEM NUMBERS (For low temperature CO2 Packs) | | | | | EPIL | |
|---|---|----------------------------|--|----------------------|-------------------------------|--------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | FACTORY DEFAULT | RANGE | ITEM 9 VALUE |
| 8. 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 | | | | 0 - 7 | 4 |
| 391 | Number of condenser steps running | | | | | |
| 392 | Forced number of condenser steps | | | | 0 -no. of steps (item 390) | |
| 8.1 CONDENSER INPUT & OUTPUT STATUS | | | | | | |
| Note 1. If combinations of input or output are present then the value displayed is added up from the individual input/output values as follows: | | | | | | |
| 1 Input/Output 1 2 Input/Output 2 4 Input/Output 4 8 Input/Output 5 16 Input/Output 6 32 Input/Output 6 64 Input/Output 7 | | | | | | |
| 389 | Output status interface 1 | 1 | 1 on | | | |
| 396 | Input status interface 1 | 1 - 2 | 1 & 2 on | | | |
| | | 1 - 3 | 1, 2 & 3 on | | | |
| | | 1 - 4 | 1, 2, 3 & 4 on | | | |
| | | 1 - 5 | 1, 2, 3, 4 & 5 on | | | |
| | | 1 - 6 | 1, 2, 3, 4, 5 & 6 on | | | |
| | | 1 - 7 | 1, 2, 3, 4, 5, 6 & 7 on | | | |
| | | 1.7 | 1 & 7 on | | | |
| | | 1 - 2.7 | 1, 2 & 7 on | | | |
| | | 1 - 3.7 | 1, 2, 3 & 7 on | | | |
| | | 1 - 4.7 | 1, 2, 3, 4 & 7 on | | | |
| | | 1 - 5.7 | 1, 2, 3, 4, 5 & 7 on | | | |
| 9. INPUTS AND OUTPUTS | | | | | | |
| 20 | Operating mode | oFF Auto | Manual Automatic | | | |
| 170 | Input states | iP - - iP 1 - iP - 2 | No input Input 1 Input 2 | | | |
| 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) | | | | 15 - 240 | 30 |
| 160 | Watchdog output (LN/LD-2) | OFF On | Watchdog fail Watchdog healthy | | | |
| 161 | Disable HT optimiser's output (LN/LD-1) (v0.00.1 only) | OFF On | Off Disable HT optimisers | | | |
| 10. DISPLAY FUNCTIONS | | | | | | |
| 179 | Pressure display unit choice | 1 2 3 | PSI bAr PASC | p.s.i. bar kPa | 1 - 3 | PSI |

| JTL COMPRESSOR PACK ITEM NUMBERS (For low temperature CO2 Packs) | | | | | EPIL | |
|---|---|--|--|--------------------|---------------|--------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | FACTORY DEFAULT | RANGE | ITEM 9 VALUE |
| 11. 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 | | | | 2004 - 2034 | |
| 18 | Daylight saving enable | Stnd dAY.S | Standard time Daylight saving time | | 0 - 1 | Stnd |
| 12. RESTORE FACTORY DEFAULTS | | | | | | |
| 9 | Set default values To set the factory defaults into the memory of the controller, 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. | 1234 1066 | Load default settings Write to NVRAM immediately | | | |
| 13. RESTORE PARAMETERS FROM NETWORK (from v0.01.0) | | | | | | |
| To restore the data from the network first set 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 the parameter restore progress. When all parameters are downloaded item 964 is cleared to 0. | | | | | | |
| 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 dnl.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 | |

| JTL COMPRESSOR PACK ITEM NUMBERS (For low temperature CO2 Packs) | | | | | EPIL | |
|---|---|--------------|------------------------------|--------------------|-------|--------------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | FACTORY DEFAULT | RANGE | ITEM 9 VALUE |
| 14. SYSTEM ALARMS | | | | | | |
| 80 | Group alarm 81 - 88 | 0 1 - 255 | No alarms Check 81 - 88 | | | |
| 81 | Low suction pressure | CLr Lo.SP | No fault Fault | | | |
| 82 | High suction pressure | CLr Hi.SP | No fault Fault | | | |
| 83 | Low discharge pressure | CLr Lo.dP | No fault Fault | | | |
| 84 | High discharge pressure | CLr Hi.dP | No fault Fault | | | |
| 85 | Low level liquid | CLr Lo.Li | No fault Fault | | | |
| 88 | Condenser fault | CLr Fn.Ft | No fault Fault | | | |
| 90 | Group alarm 91 - 98 | 0 1 - 255 | No alarms Check 91 - 98 | | | |
| 91 | Pressure transducer fault | CLr Pt.Ft | No fault Fault | | | |
| 92 | Temperature sensor | CLr tS.Ft | No fault Fault | | | |
| 93 | Temperature sensor fault | CLr PS.Ft | No fault Fault | | | |
| 94 | Low superheat | 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 | | | |
| 98 | Inverter fault | CLr InL.F | No fault Fault | | | |
| 900 | Group alarm 901 - 908 (v0.00.2 on) | 0 1 - 255 | No alarms Check 901 - 908 | | | |
| 901 | Compressor 1 fault (v0.00.2 on) | CLr C1.F | No fault Fault | | | |
| 902 | Compressor 2 fault (v0.00.2 on) | CLr C2.F | No fault Fault | | | |
| 903 | Compressor 3 fault (v0.00.2 on) | CLr C3.F | No fault Fault | | | |
| 904 | Compressor 4 fault (v0.00.2 on) | CLr C4.F | No fault Fault | | | |
| 905 | Compressor 5 fault (v0.00.2 on) | CLr C5.F | No fault Fault | | | |
| 906 | Compressor 6 fault (v0.00.2 on) | CLr C6.F | No fault Fault | | | |
| 910 | Group alarm 910 - 918 (v0.00.2 on) | 0 1 - 255 | No alarms Check 910 - 918 | | | |

| JTL COMPRESSOR PACK ITEM NUMBERS (For low temperature CO2 Packs) | | | | | EPIL | |
|---|--|-------------------------------|---------------------------------------|-----------------|-------|--------------|
| ITEM | DESCRIPTION | CODE | CODE MEANING | FACTORY DEFAULT | RANGE | ITEM 9 VALUE |
| 915 | Auto input not present (PLANT FAULT) (v0.00.2 on) | CLr P.Flt | No fault Fault | | | |
| 15. 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 Setting | unused | | | | |
| 89 | Thermistor excitation value (Factory test) | | | | | |
| 99 | Test digital displays | CLr SEt | Not active Test active | | 0 - 1 | |
| 100 | Test inputs | - - - - 1 - - - - 2 - - | No inputs Input 1 on Input 2 on | | | |
| 199 | Test relay outputs | clr SEt | Not active Active | | 0 - 1 | |
| 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 | | EPIL |
|--|-------------------------|-------------|
| NORMAL DISPLAY | | |
| 999.9 | Pressure in psi | |
| -- | Not selected | |
| ALARM TEXT (in descending priority order) | | |
| P.Fld | Plant failed | |
| Hi.dP | High discharge pressure | |
| rEF.L | Refrigerant loss | |
| CPr | Compressor fault | |
| FAn | Condenser fan problem | |
| Hi.SP | High suction pressure | |
| OTHER TEXT | | |
| JTL | Start-up text | |