SIEMENS

# Systems Integration

# Carrier Point Map: 16JT Chiller Controller

**Table 1. Carrier Point Map: 16JT Chiller Controller.**

| Point | Type | Description | Range/Units |
|---|---|---|---|
| 01 | LAO | Device Number | 1 – 15 |
| 02 | LAO | Application Number | 5138 |
| 03 | LAI | Control Mode | See Table 2 |
| 04 | LAI | Run Status | See Table 3 |
| 05 | LDI | Occupied Status | No/Yes |
| 06 | LDI | Alarm Status | Normal/Alarm |
| 07 | LDO | Chiller Start/Stop | Stop/Start |
| 08 | LDO | Remote Contacts | Off/On |
| 09 | LAI | Leaving Chilled Water Temperature Set Point | °F |
| 10 | LAO | Leaving Chilled Water Temperature Set Point (Control Point) | °F |
| 11 | LAI | Entering Chilled Water Temperature | °F |
| 12 | LAI | Leaving Chilled Water Temperature | °F |
| 13 | LAI | Target Capacity Valve | % |
| 14 | LAI | Actual Capacity Valve | % |
| 15 | LDI | Startup Pulldown Failure | Disable/Enable |
| 16 | LDI | Chiller Run Delay | Off/On |
| 17 | LDI | Spare Prot Limit Input | Alarm/Normal |
| 18 | LAI | Temperature Reset | Milliamps |
| 19 | LAI | Remote Reset Sensor | °F |
| 20 | LAI | Common Chilled Water Supply Sensor Temperature | °F |
| 21 | LAI | Common Chilled Water Return Sensor Temperature | °F |
| 22 | LDI | Desolidification Mode | Disable/Enable |
| 23 | LAI | Desolidification Time Left | Minutes |
| 24 | LDI | Chilled Water Pump | Off/On |
| 25 | LDI | Chilled Water Flow | No/Yes |
| 26 | LDI | Cooling Water Pump | Off/On |

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| Point | Type | Description | Range/Units |
|---|---|---|---|
| 27 | LDI | Cooling Water Flow | No/Yes |
| 28 | LDI | Refrigerant Pump | Off/On |
| 29 | LDI | Refrigerant Pump High Temperature | Alarm/Normal |
| 30 | LDI | Solution And Spray Pumps | Off/On |
| 31 | LAI | Solution Pump 1 Pressure | PSI (kPA) |
| 32 | LAI | Solution Pump 2 Pressure | PSI (kPA) |
| 33 | LDI | Solution Pump 1 High Temperature | Alarm/Normal |
| 34 | LDI | Solution Pump 2 High Temperature | Alarm/Normal |
| 35 | LDI | Spray Pump High Temperature | Alarm/Normal |
| 36 | LAI | Solution Pump Ontime | Hours |
| 37 | LAI | Service Ontime | Hours |
| 38 | LAI | Solution Pump Starts | — |
| 39 | LAI | High-Stage Generator High Level Starts-Last Hour | — |
| 40 | LDI | Cycle Guard | Manual/Auto |
| 41 | LDI | Cycle Guard Valve | Close/Open |
| 42 | LAI | Entering Chilled Water Temperature | °F |
| 43 | LAI | Temperature Pulldown | °F /Minute |
| 44 | LAI | Leaving Chilled Water | °F |
| 45 | LAI | Chilled Water_Out Pulldown | °F/Minute |
| 46 | LAI | Refrigerant Temperature | °F |
| 47 | LDI | Chilled Water Pump | Off/On |
| 48 | LDI | Chilled Water Flow | No/Yes |
| 49 | LDI | Refrigerant Pump | Off/On |
| 50 | LDI | Refrigerant Pump High Temperature | Alarm/Normal |
| 51 | LDI | Cycle Guard | Manual/Auto |
| 52 | LDI | Cycle Guard Valve | Close/Open |
| 53 | LAI | Refrigerant Level Sensor | Volts |
| 54 | LAI | Refrigerant Concentration Level | % |
| 55 | LDI | Refrigerant Low Level Switch | Close/Open |
| 56 | LDI | Refrigerant Cycle Guard Level Switch | Close/Open |
| 57 | LDI | Refrigerant Dilution Level Switch | Close/Open |
| 58 | LDI | Refrigerant High Level Switch | Close/Open |
| 59 | LDI | Low Chilled Water Temperature | Alarm/Normal |
| 60 | LAI | Solution Pump 1 Pressure | PSI (kPA) |

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**Table 1. Carrier Point Map: 16JT Chiller Controller.**

| Point | Type | Description | Range/Units |
|---|---|---|---|
| 61 | LAI | Solution Pump 2 Pressure | PSI (kPA) |
| 62 | LAI | Cooling Water Entering Absorber | °F |
| 63 | LAI | Cooling Water Pulldown | °F/Minute |
| 64 | LAI | Cooling Water Leaving Absorber | °F |
| 65 | LAI | Recirculated Lithium Bromide Entering Sprays | °F |
| 66 | LAI | Weak Lithium Bromide Leaving Absorber | °F |
| 67 | LAI | Weak Lithium Bromide Leaving Low Low-Temperature Heat Exchanger | °F |
| 68 | LAI | Weak Lithium Bromide Leaving High High-Temperature Heat Exchanger | °F |
| 69 | LAI | Low-Stage Generator Lithium Bromide Overflow Pipe | °F |
| 70 | LDI | Solution And Spray Pumps | Off/On |
| 71 | LDI | Solution Pump 1 Overload/High Temperature | Alarm/Normal |
| 72 | LDI | Solution Pump 2 Overload/High Temperature | Alarm/Normal |
| 73 | LDI | Spray Pump Overload/High Temperature | Alarm/Normal |
| 74 | LAI | Cooling Water Leaving Absorber | °F |
| 75 | LAI | Cooling Water Leaving Condenser | °F |
| 76 | LAI | Vapor Condensate Temperature | °F |
| 77 | LDI | Cooling Water Pump | Off/On |
| 78 | LDI | Cooling Water Flow | No/Yes |
| 79 | LDI | Tower Fan Relay | Off/On |
| 80 | LAI | High-Stage Generator Internal Pressure | PSI |
| 81 | LAI | Strong Lithium Bromide Leaving High-Stage Generator | °F |
| 82 | LAI | Weak Lithium Bromide Leaving Lcd Box | °F |
| 83 | LAI | Strong Lithium Bromide Leaving High-Temperature Heat Exchanger | °F |
| 84 | LAI | Strong Lithium Bromide Leaving Low-Stage Generator | °F |
| 85 | LAI | Strong Lithium Bromide Leaving Low-Temperature Heat Exchanger | °F |
| 86 | LAI | Condensate Temperature From Low-Stage Generator | °F |
| 87 | LDI | High-Stage Generator High Lithium Bromide Level | Open /Close |
| 88 | LAI | Actual Capacity Valve | % |
| 89 | LDI | Generator High Temperature/Press | Alarm/Normal |
| 95 | LAI | Read Error | SeeTable 4 |
| 96 | LAI | Total Fail Command | — |

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**Table 1. Carrier Point Map: 16JT Chiller Controller.**

| Point | Type | Description | Range/Units |
|---|---|---|---|
| 97 | LAI | Last Fail Point | — |
| 98 | LAI | Write Error Point | SeeTable 4 |
| 99 | LDI | Communication Fail Status | Normal/Failed |

**Table 2. Control Mode (Point 03).**

| Value | Description |
|---|---|
| 0 | Reset |
| 1 | Off |
| 2 | Local |
| 3 | CCN |

**Table 3. Run Status (Point 04)).**

| Value | Description |
|---|---|
| 1 | Recycle |
| 2 | Startup |
| 3 | Ramping |
| 4 | Running |
| 5 | Warmup |
| 6 | Override |
| 7 | Desolid |
| 8 | Abnormal |
| 9 | Dilution |
| 10 | Ready |
| 11 | Tripout |
| 12 | Cntl Test |

**Table 4. Error Codes (Points 95 and 98).**

| Value | Message | Description |
|---|---|---|
| 1 | Invalid Command | The last command sent to the DataLink device is not one that the DataLink device recognizes. |
| 2 | Invalid or Non-Existent Table | The specified table does not exist in the specified element. |
| 3 | Communication Error | A communication error has occurred due to other activity on the CCN communication bus, a system element error, or an incorrect address. |
| 6 | Device Not Configured | The specified system element's bus and element number were not found. |
| 7 | Variable Does Not Exist | The variable does not exist in the specified table. |
| 8 | Invalid Data | The data was typed in an incorrect format. |
| 9 | Access Restricted | An attempt was made to read or write to a table or variable type that is not supported by the DataLink device. |
| 10 | Limits Exceeded | The value that was typed is outside the specified variable's upper or lower limits. |
| 11 | Alarms Not Available | There are no alarms currently in the alarm buffer. |
| 12 | Cannot Force Variable | The CCN system element does not allow write access to the specified variable. |
| 13 | Parameter Not Found | The 8-character point name used in the RT or WT command does not exist. |
| 14 | Communication Nack | The command was accepted but not understood by the specified system element. |

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