

Systems Integration

McQuay BACnet Solution: Alerton Heat Pump Controller

Table 1. VLC HEAT PUMP APOGEE Points, Application Number: 4170.

Point	Type	Description	Range/Units ^{a b c}
1	LAO	Address	–
2	LAO	Application	4170
3	LAI	Room Temperature	°F °C
4	LAI	Microtouch Bias Input	°F °C
5	LAI	Water Temperature	°F °C
6	LAI	Discharge Air Temperature	°F °C
7	LAI	Condensate Sensor Input	–
8	LAI	Brown Out Sensor	–
9	LDI	Microtouch Override	Off/On
10	LDI	Low Temperature Alarm Input	Off/On
11	LDI	Low Pressure Alarm Input	Off/On
12	LDI	High Pressure Alarm Input	Off/On
13	LDI	Fan	Off/On
14	LDI	Compressor	Off/On
15	LDI	Reversing Valve	Off/On
16	LDI	Spare Relay	Off/On
17	LAI	Master Heating Signal	%
18	LAI	Cooling Signal	%
19	LAI	Compressor Heating Signal	%
20	LAI	Auxiliary Heating Signal	%
21	LAI	Heating Attained Temperature	°F °C
22	LAI	Cooling Attained Temperature	°F °C
23	LAI	Occupied Heating Setpoint	°F °C

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Table 1. VLC HEAT PUMP APOGEE Points, Application Number: 4170. (continued)

Point	Type	Description	Range/Units^{a b c}
24	LAI	Occupied Cooling Setpoint	°F °C
25	LAO	Spare Relay Use Code	–
26	LAO	Fan Mode	–
27	LAI	Return Temperature	°F °C
28	LAI	Test Mode Counter	–
29	LAO	Compressor 1 Starts	–
30	LAI	VLC MAC address	–
31	LAI	McQuay Factory Test Code	–
32	LAO	Auxiliary Heating Lockout Temperature	°F °C
33	LAO	Heating Attained Alarm Setpoint	°F °C
34	LAO	Cooling Attained Alarm Setpoint	°F °C
35	LAO	Filter Runtime Alarm Setpoint	hrs
36	LAO	Low Water Temperature Alarm Setpoint	°F °C
37	LAO	High Water Temperature Alarm Setpoint	°F °C
38	LAO	Fan Runtime	hrs
39	LAO	Compressor Runtime	hrs
40	LAO	Heat Runtime (Comp. Heat)	hrs
41	LAO	Cooling Runtime	hrs
42	LAO	Filter Runtime	hrs
43	LAO	Auxiliary Heat Runtime	hrs
44	LAO	Occupied Setpoint	°F °C
45	LAO	Occupied Setpoint – Hi Limit	°F °C
46	LAO	Occupied Setpoint – Low Limit	°F °C
47	LAO	Cooling Offset	°F °C
48	LAO	Heating Offset	°F °C
49	LAI	Unoccupied Cooling Setpoint	°F °C

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Table 1. VLC HEAT PUMP APOGEE Points, Application Number: 4170. (continued)

Point	Type	Description	Range/Units ^{a b c}
50	LAI	Unoccupied Heating Setpoint	°F °C
51	LAO	After Hours Timer Limit/Duration	hrs
52	LAO	After Hours Timer (hr)	hrs
53	LAI	Current Cooling Setpoint	°F °C
54	LAI	Current Heating Setpoint	°F °C
55	LAI	Microset Room Temperature	°F °C
56	LAI	Humidity from Microset	%
57	LAI	Outside Air Temperature	°F °C
58	LAI	Microtouch Lever Offset	°F °C
59	LAO	Microtouch Bias Limit	°F °C
60	LAI	Demand Offset	°F °C
61	LDI	Bad Sensor Alarm	Off/On
62	LDI	Heating/Cooling Mode; ON=heating	Cool/Heat
63	LDI	Persistent Communication Fail	Off/On
64	LDI	Fan Request – Compressor	Off/On
65	LDI	Fan Request – Auxiliary Heat	Off/On
66	LDI	Heating Attained Alarm	Off/On
67	LDI	Cooling Attained Alarm	Off/On
68	LDI	Condensate Alarm	Off/On
69	LDI	High Pressure Alarm	Off/On
70	LDI	Low Pressure Alarm	Off/On
71	LDI	Water Low Temperature Alarm	Off/On
72	LDI	Water High Temperature Alarm	Off/On
73	LDI	Bad Water Sensor Alarm	Off/On
74	LDI	Low Temperature Alarm (Evap)	Off/On
75	LDO	Test Mode	Off/On
76	LDI	Brown Out Alarm	Off/On
77	LDI	Day Mode 2 Hour Delay	Off/On
78	LDO	Alarm Reset	Off/On
79	LDI	Filter Alarm	Off/On

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Table 1. VLC HEAT PUMP APOGEE Points, Application Number: 4170. (continued)

Point	Type	Description	Range/Units ^{a b c}
80	LDI	Compressor 1 Alarm Shutdown	Off/On
81	LDI	Alarms Present Flag	Off/On
82	LDI	Space Too Warm Alarm	Off/On
83	LDI	Space Too Cold Alarm	Off/On
84	LDI	Auxiliary Heating Lockout Status	Off/On
85	LDO	Stagger Start Delay	Off/On
86	LDO	Occupied Command	Off/On
87	LDI	Optimum Start Heating	Off/On
88	LDI	Optimum Start Cooling	Off/On
89	LDO	Disable Unit	Off/On
90	LDO	Compressor Lockout	Off/On
91	LDI	Auxiliary Heat	Off/On
92	LDI	Vent Damper	Off/On
93	LDO	Direct Control of Spare Relay	Off/On
94	LDI	Heat Exchanger Water Valve	Off/On
95	LDI	McQuay Factory Test Mode	Off/On
96	LDI	Compressor OFF 5 Minutes	Off/On
97	LDI	Initialize 10 Second Delay	Off/On
98	LDI	Occupied Setpoints Command	Off/On
99	LDO	OFF Mode Enable	Off/On
100	LDI	After-Hours Timer Status	Off/On
101	LDI	Occupied Status	Off/On
102	LDO	Field Service Lockout	Off/On
103	LDI	English/Metric Display Swap	Off/On
104	LDI	Microset Present Flag	Off/On
105	LDI	English/Metric VLC Mode	Off/On

^a Values noted for LDIs and LDOs are in the following format: OFF text/ON text.

^b This column indicates the value/range or engineering units or both if known.

^c The default English value is not italicized. An italicized entry indicates an SI value.

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