

Systems Integration

APOGEE® Integration to Trane LONWORKS® Devices: LCI-C/CH530 Chiller Controller

Table 1. LCI-C/CH530 APOGEE Points, Application Number: 9025, Program ID: 80:00:2A:50:28:03:04:01.

Point	Type	Description	Range/Units ^{a b c}
1	LAO	Chiller Enable Value	%
2	LAO	Chiller Enable State	–
3	LAO	Cool Setpoint	°F °C
4	LAI	On/Off Value	%
5	LDI	On/Off State	Off/On
6	LAI	Active Setpoint Output	°F °C
7	LAO	Capacity Limit Input	%
9	LENUM	Chiller Mode	See Table 2
10	LAO	Heating Setpoint	°F °C
11	LAI	Active Capacity	%
12	LAI	Capacity Limit	%
13	LAI	Leaving Chilled Water Temperature	°F °C
14	LAI	Entering Chilled Water Temperature	°F °C
15	LAI	Entering Condenser Water Temperature	°F °C
16	LAI	Leaving Condenser Water Temperature	°F °C

continued on next page...

Table 1. LCI-C/CH530 APOGEE Points, Application Number: 9025, Program ID: 80:00:2A:50:28:03:04:01. (continued)

Point	Type	Description	Range/Units ^{a b c}
18	LENUM	Chiller Status Run Mode	0=Chlr_Off 1=Chlr_Start 2=Chlr_Run 3=Chlr_Preshutdn 4=Chlr_Service 255=Chlr_Nul
19	LENUM	Chiller Status Operation Mode	See Table 2
20	LDI	Chiller Alarm Status	Normal/Alarm
21	LDI	Chiller Run Enable Status	Disabl/Enable
22	LDI	Chiller Local/Remote Status	Remote/Local
23	LDI	Chiller Limit Status	Off/On
24	LDI	Chilled Water Flow Status	Noflow/Flow
25	LDI	Condenser Water Flow Status	Noflow/Flow

^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.

Table 2. HVAC Mode/Status (hvac_t).

Value	Description
0	Hvac_Auto
1	Hvac_Heat
2	Hvac_Mrng_Wrmup
3	Hvac_Cool
4	Hvac_Night_Purge
5	Hvac_Pre_Cool
6	Hvac_Off
7	Hvac_Test
8	Hvac_Emerg_Heat
9	Hvac_Fan_Only
10	Hvac_Free_Cool
11	Hvac_Ice
255	Hvac_Nul

Table 3. LCI-C/CH530 LONWORKS Network Variables, Program ID: 80:00:2A:50:28:03:04:01.

Point	NVO Name	NVI Name	CP Name
1	-	nviChillerEnable.value	nviChillerEnable.value
2	-	nviChillerEnable.state	nviChillerEnable.state
3	-	nviCoolSetpt	nviCoolSetpt
4	nvoOnOff.value	-	-
5	nvoOnOff.state	-	-
6	nvoActiveSetpt	-	-
7	-	nviCapacityLim	nviCapacityLim
9	-	nviMode	nviMode
10	-	nviHeatSetpt	nviHeatSetpt
11	nvoActualCap	-	-
12	nvoCapacityLim	-	-
13	nvoLvgChWTemp	-	-
14	nvoEntChWTemp	-	-
15	nvoEntCndWTemp	-	-
16	nvoLvgCndWTemp	-	-
18	nvoChillerStat.chlr_run_mode	-	-
19	nvoChillerStat.chlr_op_mode	-	-
20	nvoChillerStat.chlr_state.in_alarm	-	-
21	nvoChillerStat.chlr_state.run_enabled	-	-
22	nvoChillerStat.chlr_state.local	-	-
23	nvoChillerStat.chlr_state.limited	-	-
24	nvoChillerStat.chlr_state.chw_flow	-	-
25	nvoChillerStat.chlr_state.condw_flow	-	-

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Page 4 of 4