

Systems Integration

LONWORKS® Solution for Trane ZN524 Heat Pump Controller, Application 9177

	ZN524 Heat Pump Controller APOGEE Points, Application Number 9177, Program ID: 80:00:2A:55:03:04:05.				
Point	Туре	Subpoint Name	Description	Range/Units a), b)	
1	LAO	SpaceTmpCmd	Space Temp Command	°C °F	
2	LAI	SpaceTempAct	Space Temp Actual	°C °F	
3	LENUM	OpMode	Operating Mode		
4	LAI	HeatOutPri	Heat Out Primary	%	
5	LAI	HeatOutSec	Heat Out Secondary	%	
6	LAI	CoolOp	Cool Operation	%	
7	LAI	EconOp	Econ Operation	%	
8	LAI	FanOp	Fan Operation	%	
9	LDI	InAlarm	In Alarm	Off/On	
10	LAO	SetPointCmd	Setpoint Command	°C °F	
11	LAO	SPOffsetCmd	Setpoint Offset Command	°C °F	
18	LENUM	CrntStateCmd	Current State Command		
19	LENUM	NextStateCmd	Next State Command		
20	LAO	TimeToNextSt	Time To Next State	MIN	
21	LENUM	OccManCmd	Occupied Manual Command		
22	LENUM	OccSensrCmd	Occupied Sensor Command		
23	LENUM	ApplicMode	Application Mode		
24	LENUM	HeatCoolCmd	Heat Cool Command		
25	LAO	FanSpdCmd_V	Fan Speed Command Value	%	

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Point	Туре	Subpoint Name	Description	Range/Units a), b)
26	LDO	FanSpdCmd_S	Fan Speed Command State	Off/On
27	LAO	CompEn_V	Comp Enabled Value	%
28	LDO	CompEn_S	Comp Enabled State	Off/On
29	LAO	AuxHeatEn_V	Auxiliary Heat Enabled Value	%
30	LDO	AuxHeatEn_S	Auxiliary Heat Enabled State	Off/On
31	LAO	EconEn_V	Economizer Enabled Value	%
32	LDO	EconEn_S	Economizer Enabled State	Off/On
41	LENUM	EmrgcyOvrde	Emergency Override	
42	LAO	SourceTmpCmd	Source Temp Command	°C °F
43	LAO	OAT_Cmd	Outside Air Temp Command	°C °F
44	LAO	SpaceRH_Cmd	Space Relative Humidity Command	%
50	LAI	EffctStptAct	Effective Setpoint Actual	°C °F
51	LENUM	EffectOccAct	Effect Occupancy Actual	
52	LENUM	HeatCoolAct	Heat Cool Actual	
53	LAI	SetpointAct	Setpoint Actual	°C °F
62	LAI	DischAirTmp	Discharge Air Temp	°C °F
64	LAI	LoadAbsK	Load AbsK	KW
65	LAI	TerminalLoad	Terminal Load	%
72	LAI	SpaceRHAct	Space Relative Humidity Actual	%
73	LAI	OAT_Act	Outside Air temp Actual	°C °F
74	LAI	SpaceCO2Act	Space CO2 Actual	PPM
90	LENUM	VlvOvrdSCmd	Valve Override State Command	
91	LAO	VIvOvrdPCmd	Valve Override Percent Command	%
92	LAO	VlvOvrdFCmd	Valve Override Flow Command	CFM LPS
93	LAI	OADamperAct	Outside Air Damper Actual	%
200	LAI	SP_OccCool	Setpoint Occupied Cool	°C °F

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Point	Туре	Subpoint Name	Description	Range/Units a), b)	
201	LAI	SP_StbyCool	Setpoint Standby Cool	°C °F	
202	LAI	SP_UnoccCool	Setpoint Unoccupied Cool	°C °F	
203	LAI	SP_OccHeat	Setpoint Occupied Heat	°C °F	
204	LAI	SP_StbyHeat	Setpoint Standby Heat	°C °F	
205	LAI	SP_UnoccHeat	Setpoint Unoccupied Heat	°C °F	
206	LAI	CP_MaxRcvTme	Configuration Parameter Max Receive Time	SEC	
207	LAI	CP_BypassT	Configuration Parameter Bypass Time	MIN	
211	LAI	CP_SpcRHSp	Configuration Space Relative Humidity Setpoint	%	

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.

ZN524 Heat Pump Controller LONWORS Network Variables, Program ID: 80:00:2A:55:03:03:04:05.				
Point	Subpoint Name	NVO Name	NVI Name	CP Name
1	SpaceTmpCmd		nviSpaceTemp	
2	SpaceTempAct	nvoSpaceTemp		
3	OpMode	nvoUnitStatus.mode		
4	HeatOutPri	nvoUnitStatus.heat_output_p rimary		
5	HeatOutSec	nvoUnitStatus.heat_output_s econdary		
6	CoolOp	nvoUnitStatus.cool_output		
7	EconOp	nvoUnitStatus.econ_output		
8	FanOp	nvoUnitStatus.fan_output		
9	InAlarm	nvoUnitStatus.in_alarm		
10	SetPointCmd		nviSetpoint	
11	SPOffsetCmd		nviSetptOffset	
18	CrntStateCmd		nviOccSchedule.current_state	
19	NextStateCmd		nviOccSchedule.next_state	
20	TimeToNextSt		nviOccSchedule.time_to_next _state	

	ZN524 Heat Pump Controller LONWORS Network Variables, Program ID: 80:00:2A:55:03:04:05.				
Point	Subpoint Name	NVO Name	NVI Name	CP Name	
21	OccManCmd		nviOccManCmd		
22	OccSensrCmd		nviOccSensor		
23	ApplicMode		nviApplicMode		
24	HeatCoolCmd		nviHeatCool		
25	FanSpdCmd_V		nviFanSpeedCmd.value		
26	FanSpdCmd_S		nviFanSpeedCmd.state		
27	CompEn_V		nviComprEnable.value		
28	CompEn_S		nviComprEnable.state		
29	AuxHeatEn_V		nviAuxHeatEnable.value		
30	AuxHeatEn_S		nviAuxHeatEnable.state		
31	EconEn_V		nviEconEnable.value		
32	EconEn_S		nviEconEnable.state		
41	EmrgcyOvrde		nviEmergOverride		
42	SourceTmpCmd		nviSourceTemp		
43	OAT_Cmd		nviOutdoorTemp		
44	SpaceRH_Cmd		nviSpaceRH		
50	EffctStptAct	nvoEffectSetpt			
51	EffectOccAct	nvoEffectOccup			
52	HeatCoolAct	nvoHeatCool			
53	SetpointAct	nvoSetpoint			
62	DischAirTmp	nvoDischAirTemp			
64	LoadAbsK	nvoLoadAbsK			
65	TerminalLoad	nvoTerminalLoad			
72	SpaceRHAct	nvoSpaceRH			
73	OAT_Act	nvoOutdoorTemp			
74	SpaceCO2Act	nvoSpaceCO2			
90	VlvOvrdSCmd		nviValveOverride.state		
91	VIvOvrdPCmd		nviValveOverride.percent		
92	VIvOvrdFCmd		nviValveOverride.flow		

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Point	Subpoint Name	NVO Name	NVI Name	CP Name
93	OADamperAct	nvoOADamper		
200	SP_OccCool			nciSetpoints.occupied_cool
201	SP_StbyCool			nciSetpoints.standby_cool
202	SP_UnoccCool			nciSetpoints.unoccupied_co
203	SP_OccHeat			nciSetpoints.occupied_heat
204	SP_StbyHeat			nciSetpoints.standby_heat
205	SP_UnoccHeat			nciSetpoints.unoccupied_he at
206	CP_MaxRcvTme			SCPTmaxRcvTime
207	CP_BypassT			SCPTbypassTime
211	CP_SpcRHSp			SCPThumSetpt

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