

PRODIGY

Firmware v2.12

Object	Name	Units	Default	Range	Description	R/W	Retained On Power Failure
AI1	Room Temperature	°F/°C	N/A	(-59) - 300	Current Room Temperature	R	N
AI2	N/A	N/A	0	0	N/A	R	N
AI3	Supply Air Temperature	°F/°C	N/A	(-59) - 300	Current Supply Air Temperature	R	N
AI4	Analog Input J18	V	N/A	0-10	Spare Analog Input	R	N
AI5	Analog Input 5	V	N/A	0-10	Spare Analog Input	R	N
AI6	Analog Input 6	V	N/A	0-10	Spare Analog Input	R	N
AI7	Wireless Signal Strength or N/A	%	N/A	0-100	Signal strength from wireless stat when connected	R	N
AI8	Wireless Battery Code or N/A	N/A	N/A	0-5	Battery code from wireless stat when connected	R	N
AI9	CO2 Reading	ppm	Dynamic	350-10000	Current CO2 at the T-Stat	R	N
AI10	Humidity Reading	%RH	Dynamic	0-100	Current Relative Humidity at the T-Stat	R	N
AV1	Control Model	N/A	N/A	1-2	Indicates model of PPD 1 - Dial Setpoint 2 - Thermostat Setpoint	R	Y
AV2	Occupancy	N/A	N/A	0-1	Occupancy Status 0 - Unoccupied 1 - Occupied	R	N
AV3	Occupancy Source	N/A	N/A	0-5, 11-12, 14-15	Source of occupancy: 0- Occupied Default Mode 1 - Occupied from Airflow 2 - Occupied from Contact Closure 3 - Occupied from T-Stat button press 4 - Occupied from Motion Sensor 5- Occupied from Network Override 11 - Unoccupied from Airflow 12 - Unoccupied from Contact Closure 14- Unoccupied from Motion Sensor 15 - Unoccupied from Network Override	R	N
AV4	Room Setpoint - Low Limit	°F/°C	65°F(18°C)	10-AV5	Lowest user-adjustable setpoint. The upper limit is equal to AV5	R/W	Y
AV5	Room Setpoint - High Limit	°F/°C	80°F(26°C)	AV4-250	Highest user-adjustable setpoint. The lower limit is equal to AV4	R/W	Y
AV6	Room Setpoint	°F/°C	72°F(22°C)	AV4-AV5	Current Room Setpoint	R	N
AV7	Night Heat Setpoint	°F/°C	62°F(17°C)	0-249	Setpoint at which controller will enter Heating mode during unoccupied periods (1 degree difference must be between heat and cool to adjust the range). The upper limit is one less than AV8	R/W	Y
AV8	Night Cool Setpoint	°F/°C	83°F(28°C)	1-250	Setpoint at which controller will enter Cooling mode during unoccupied periods (1 degree difference must be between heat and cool to adjust the range). The upper limit is one less than AV7	R/W	Y

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Object	Name	Units	Default	Range	Description	R/W	Retained On Power Failure
AV9	Binary Output Application	N/A	N/A	0-6	Configuration of the spare binary output: 0 - ON during Heat 1 - ON during Cooling 2 - ON during Heating & Cooling 3 - ON during Deadband (satisfied) 4 - Room Lights Control (Motion T-Stat) 5 - Output OFF 6 - Output ON	R/W	Y
AV10	Binary Output Signal Type	N/A	N/A	0-6	Signal Type: 0 - PWM 1 - PDM 2 - On/Off 3 - PWM, disabled if hot air in duct 4 - PDM, disabled if hot air in duct 5 - On/Off, disabled if hot air in duct 1 and 2 only available if output application is heat. Otherwise only 3 is available	R	N
AV11	Binary Output Status	N/A	N/A	N/A	0/1 if on/off. Otherwise 0-100%	R	N
AV12	Unoccupied (Night) Damper Position	%	0	0-100	Position at which the damper is held during unoccupied periods	R/W	Y
AV13	Ping	N/A	0	0-255	Number of times the LCD T-Stat will beep. Useful for locating a box/T-Stat. (For example, if the number 30 is written to this variable, the T-Stat will beep 30 times before zeroing this variable)	R/W	N
AV14	Controller Status	%	N/A	-100% to +100%	Current Room Load (PI value) 1%-100% = Heating load 0% = Deadband (room satisfied) (-1%) - (-100%) = Cooling Load	R	N
AV15	Proportional Band	°F/°C	2°F(1°C)	1-20	Temperature band through which the PI controller travels through 1% to 100% load	R/W	Y
AV16	Day Differential	°F/°C	1°F(0.5°C)	1-25	Temperature band on either side of the setpoint within the controller is deemed satisfied. (for example, with a Day Differential of 1°F, and a setpoint of 72°F, the controller is satisfied between 71°F and 73°F)	R/W	Y
AV17	Inlet Size	Inches	8	6, 8, 10, 12, 14	Inlet Size for the Prodigy unit. Note: 12/14 inlets have the same stroke time	R/W	Y
AV18	Current Damper Position	%	N/A	0-100, 999	Current damper position in percent, See "damper response chart" Note: A value of 999% indicates the damper is recalibrating itself	R	N
AV19	Damper Target	%	N/A	0-100	Damper target in percent	R	N
AV20	Damper Neutral Supply Position	%	50	0-100	See "damper response chart"	R/W	Y
AV21	Damper Cool Min Position	%	0	0-100	See "damper response chart", Upper Limit is AV22	R/W	Y
AV22	Damper Cool Max Position	%	100	0-100	See "damper response chart", Lower Limit is AV21	R/W	Y
AV23	Damper Heat Min Position	%	0	0-100	See "damper response chart", Upper Limit is AV24	R/W	Y
AV24	Damper Heat Max Position	%	100	0-100	See "damper response chart", Lower Limit is AV23	R/W	Y

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Object	Name	Units	Default	Range	Description	R/W	Retained On Power Failure
AV25	Remote Mode Flag	N/A	0	0-7	Remote Mode - Damper Override 0 - Automatic control (normal run mode) 1 - Target Cool Min 2 - Target Cool Max 3 - Target Heat Min 4 - Target Heat Max 5 - Target Neutral Airflow 6 - Open Damper 100% 7 - Close Damper (0%)	R/W	N
AV26	Drone Output Voltage	V	N/A	0-10	VDC output to Prodigy Drone Units	R	N
AV27	Aux Analog Output Voltage	V	N/A	0-10	Spare Voltage Output	R	N
AV28	Net Setpoint	°F/°C	0	0-250	Setpoint override from BACnet network	R/W	Y
AV29	Net Room Temp	°F/°C	0	0-250	Room temperature override from BACnet network	R/W	Y
AV30	Net Occupancy	N/A	0	0-2	Occupancy override from BACnet network 0 - Normal Operation 1 - Force Occupied 2 - Force Unoccupied	R/W	Y
AV31	Net Lights	N/A	0	0-2	Room Lights override from BACnet network 0 - Normal Operation 1 - Force Lights On 2 - Force Lights Off	R/W	Y

HCCO Box		Cooling Min	Cooling Flows	Heating Min	Heating Flows	Neutral Supply Air Flow
PI = Cooling	Duct Air = Cold		X			
PI = Heating				X		
PI = Neutral		X				
PI = Cooling	Duct Air = Hot	X				
PI = Heating					X	
PI = Neutral		X				
PI = Cooling	Duct Air = Neutral					X
PI = Heating				X		
PI = Neutral						X