

PIC-SD

Firmware v3.21.3

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/W	Y
AI2	Airflow	cfm, L/s	N/A	0-9999	Current Airflow	R/W	Y
AI3	Supply Air Temperature	°F/°C	N/A	(-59) - 300	Current Supply Air Temperature	R	N
AI4	CO2 Reading	ppm	N/A	350-10000	Current CO2 at the T-Stat	R	N
AI5	Humidity Reading	%RH	N/A	0-100	Current Relative Humidity at the T-Stat	R	N
AI6	AI1	V	N/A	Dynamic	Current Voltage at AI6	R	N
AI7	AI2	V	N/A	Dynamic	Current Voltage at AI7	R	N
BI1	Contact Closure	Open/Closed	Dynamic	Open/Closed	Binary Input can be tied to several signals. See O&M manual for detail. Input Menu.	R	N
AO1	Analog Output 1 (ECM)	Volts DC	Dynamic	0-10VDC	The Analog Output can be tied to several signals. See O&M manual for detail. Output Menu.	R/W	Y
AO2	Analog Output 2 (Heat)	Volts DC	Dynamic	0-10VDC	The Analog Output can be tied to several signals. See O&M manual for detail. Output Menu.	R/W	Y
AO3	Damper Position	%	Dynamic	0-100%	The Analog Output can be tied to several signals. See O&M manual for detail. Output Menu.	R	N
BO1	Binary Output 1 (Heat1)	Off/On	Dynamic	Off/On	The Binary Output can be tied to several signals. See O&M manual for detail. Output Menu.	R/W	Y
BO2	Binary Output 2 (Heat 2)	Off/On	Dynamic	Off/On	The Binary Output can be tied to several signals. See O&M manual for detail. Output Menu.	R/W	Y
AO1	Airflow Target	cfm, L/s	N/A	0-9999	Current Airflow Target (supply airflow value the controller is chasing)	R/W	N
AO2	Room Setpoint - High Limit	°F/°C	80°F (26°C)	AV3-100	Highest user-adjustable setpoint. The upper limit is equal to AV3	R/W	Y
AV3	Room Setpoint - Low Limit	°F/°C	65°F (18°C)	32-AV2	Lowest user-adjustable setpoint. The upper limit is equal to AV2	R/W	Y
AV4	Night Heat Setpoint	°F/°C	62°F (17°C)	32-AV5	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 AV6	R/W	Y
AV5	Night Cool Setpoint	°F/°C	83°F (28°C)	AV4-100	Setpoint at which controller will enter Cooling mode during unoccupied periods (1 degree difference must be between cool and heat to adjust the range). The lower limit is one higher than AV4	R/W	Y
AV6	Room Setpoint	°F/°C	72°F (22°C)	AV3- AV2	Current Room Setpoint	R/W	Y
AV7	Unoccupied (Night) Damper Position	%	40%	0-100	Position at which controller will enter Cooling mode during unoccupied periods	R/W	Y
AV8	VAV Neutral Flow	cfm, L/s	132cfm (62L/s)	0-9999	See PIC Flow response chart	R/W	Y
AV9	VAV Cool Min Flow	cfm, L/s	132cfm (62L/s)	0-AV10	See PIC Flow response chart, Upper Limit is AV10	R/W	Y
AV10	VAV Cool Max Flow	cfm, L/s	800cfm (377L/S)	AV9-9999	See PIC Flow response chart, Lower Limit is AV9	R/W	Y
AV11	VAV Heat Min Flow	cfm, L/s	132cfm (62L/s)	0-AV12	See PIC Flow response chart, Upper Limit is AV12	R/W	Y
AV12	VAV Heat Max Flow	cfm, L/s	800cfm (377L/S)	AV11-9999	See PIC Flow response chart, Lower Limit is AV11	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

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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)	1-20	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	Commissioned	N/A	0	0-1	Controller Commissioning Status 0 = Not Commissioned 1 = Commissioned	R/W	Y
AV22	High-Temperature Alarm Threshold - Level 3	°F/°C	2°F	1-10	Level 3 high temperature alarm threshold delta	R/W	Y
AV23	High-Temperature Alarm Threshold - Level 2	°F/°C	3°F	1-10	Level 2 high temperature alarm threshold delta	R/W	Y
AV24	Low-Temperature Alarm Threshold - Level 2	°F/°C	3°F	1-10	Level 2 low temperature alarm threshold delta	R/W	Y
AV25	Airflow Alarm Threshold - Level 3	%	70%	1-100	Level 3 low airflow alarm threshold delta	R/W	Y
AV26	Airflow Alarm Threshold - Level 2	%	50%	1-100	Level 2 low airflow alarm threshold delta	R/W	Y
AV27	Temperature Alarm Time Threshold	minutes	10	1-60	Time beyond threshold delta to generate temperature alarm	R/w	Y
AV28	Airflow Alarm Time Threshold	minutes	5	1-60	Time beyond airflow delta to generate temperature alarm	R/W	Y
AV29	Device Instance	-	101	1-4194303	BACnet device instance	R/W	Y
AV30	MAC	-	1	1-127	BACnet MAC address	R/W	Y
AV31	K Factor	-	Dynamic	1 to 20,000	Airflow required to generate 1"wc of pressure	R/W	Y
AV32	Room Temperature Offset	°F/°C	0	-32,768 to 32,767	Delta applied to temperature reading	R/W	Y
MV1	Damper Override	Text	Dynamic	9 States	1 - Disabled (No Override) 2 - Go to Cool Min 3 - Go to Cool Max 4 - Go to Heat Min 5 - Go to Heat Max 6 - Go to Neutral 7 - Go to Full Open 8 - Go to Full Closed 9 - Specific Target Override	R/W	N
MV2	Occupancy	Text	Dynamic	2 States	1 - Occupied 2 - Unoccupied	R	N

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MV3	Occupancy Source	Text	Dynamic	13 States	1 - Occupied Default Mode 2 - Occupied from Airflow 3 - Occupied from Contact Closure 4 - Occupied from T-Stat Button 5 - Occupied from Motion Sensor 6 - Occupied from Network Override 7 - Occupied from Local Override 8 - Unoccupied from Airflow 9 - Unoccupied from Contact Closure 10 - Unoccupied from T-Stat Button 11 - Unoccupied from Motion Sensor 12 - Unoccupied from Network Override 13 - Unoccupied from Local Override	R	R
MV4	Occupancy Override	Text	Dynamic	3 States	1 - No Override 2 - Force Unoccupied 3 - Force Occupied	R/W	N
MV5	Binary Fan Type	Text	Dynamic	6 states	1 - No Fan 2 - Day Heat/Night Heat 3 - Day Constant/Night Heat 4 - Constant 5 - Day Constant/Night Demand 6 - Day Demand/Night Demand	R/W	Y
MV6	Control Mode	Text	Dynamic	3 States	1 - Automatic 2 - Cooling Only 3 - Heating Only	R/W	Y
MV7	Controller State	Text	Dynamic	3 States	1 - Cooling 2 - Heating 3 - Deadband	R	N
MV8	High Temperature Alarm	Text	5	5 States	1 - Level 1 2 - Level 2 3 - Level 3 4 - Level 4 5 - No Alarm	R	N
MV9	Low Temperature Alarm	Text	5	5 states	1 - Level 1 2 - Level 2 3 - Level 3 4 - Level 4 5 - No Alarm	R	N
MV10	Low Airflow Alarm	Text	5	5 States	1 - Level 1 2 - Level 2 3 - Level 3 4 - Level 4 5 - No Alarm	R	N

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Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
MV11	Duct Size	Text	Dynamic	16 States	1 - 4 inches 2 - 5 inches 3 - 5 inches 4 - 7 inches 5 - 8 inches 6 - 9 inches 7 - 10 inches 8 - 12 inches 9 - 14 inches 10 - 16 inches 11 - 24x16 inches 12 - 9 inch low profile 13 - 10 inch low profile 14 - 12 inch low profile 15 - 14 inch low profile 16 - 16 inch low profile	R/W	Y
MV12	Temperature Units	Text	°F	2 States	1 - Fahrenheit 2 - Celsius	R/W	Y
MV13	Unoccupied Alarms	Text	Enabled	2 States	1 - Disabled 2 - Enabled	R/W	Y
MV14	MAC/DI Link	Text	Linked	2 States	1 - Unlinked 2 - Linked	R/W	Y