

PIC

Firmware v3.30.2

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	Airflow	cfm, L/s	N/A	0-9999	Current Airflow	R	N
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	AI4 (Expan)	V	N/A	Dynamic	Current Voltage at AI7 of Expansion Module	R	N
AI7	AI5 (Expan)	V	N/A	Dynamic	Current Voltage at AI8 of Expansion Module	R	N
AI8	AI6 (Expan)	V	N/A	Dynamic	Current Voltage at AI9 of Expansion Module	R	N
AI9	Thermistor (Expan)	°F/°C	N/A	Dynamic	Current Temperature from Expansion Module	R	Y
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/W	Y
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	Analog Output 3 (Cool)	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
AO4	Analog Output 4 (Aux)	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
AO5	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 (ECM)	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 1)	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
BO3	Binary Output 3 (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
BO4	Binary Output 4 (Heat 3)	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
BO5	Binary Output 5 (Cool)	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
BO6	Binary Output 8 (Aux 1)	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
BO7	Binary Output 9 (Aux 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
MO	Room Lights	Text	Dynamic	4 States	1 - Off (Auto) 2 - On (Auto) 3 - Off (Manual) 4 - On (Manual)	R/W	Y
AV1	Airflow Target	cfm, L/s	N/A	0-9999	Current Airflow Target (supply airflow value the controller is chasing)	R	N
AV2	Room Setpoint - High Limit	°F/°C	80°F (26°C)	AV3-100	Highest user-adjustable setpoint. The lower 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

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AV8	Neutral Duct Temp Airflow Target	cfm, L/s	132cfm (62L/s)	0-9999	See PIC Flow response chart	R/W	Y
AV9	Cool Min Airflow Setpoint	cfm, L/s	132cfm (62L/s)	0-AV10	See PIC Flow response chart, Upper Limit is AV10	R/W	Y
AV10	Cool Max Airflow Setpoint	cfm, L/s	800cfm (377L/S)	AV9-9999	See PIC Flow response chart, Lower Limit is AV9	R/W	Y
AV11	Heat Min Airflow Setpoint	cfm, L/s	132cfm (62L/s)	0-AV12	See PIC Flow response chart, Upper Limit is AV12	R/W	Y
AV12	Heat Max Airflow Setpoint	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
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
AV29	High-Temperature Alarm Threshold - Level 3	°F/°C	2°F	1-10	Level 3 high temperature alarm threshold delta	R/W	Y
AV30	High-Temperature Alarm Threshold - Level 2	°F/°C	3°F	1-10	Level 2 high temperature alarm threshold delta	R/W	Y
AV31	Low-Temperature Alarm Threshold - Level 3	°F/°C	2°F	1-10	Level 3 low temperature alarm threshold delta	R/W	Y
AV32	Low-Temperature Alarm Threshold - Level 2	°F/°C	3°F	1-10	Level 2 low temperature alarm threshold delta	R/W	Y
AV33	Airflow Alarm Threshold - Level 3	%	70%	1-100	Level 3 low airflow alarm threshold delta	R/W	Y
AV34	Airflow Alarm Threshold - Level 2	%	50%	1-100	Level 2 low airflow alarm threshold delta	R/W	Y
AV35	Temperature Alarm Time Threshold	minutes	10	1-60	Time beyond threshold delta to generate temperature alarm	R/W	Y
AV36	Airflow Alarm Time Threshold	minutes	5	1-60	Time beyond airflow delta to generate temperature alarm	R/W	Y
AV37	Device Instance	-	101	1-4194303	BACnet device instance	R/W	Y
AV38	MAC	-	1	1-127	BACnet MAC address	R/W	Y
AV39	K Factor	-	Dynamic	1 to 20,000	Airflow required to generate 1"wc of pressure	R/W	Y

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Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AV40	Room Temperature Offset	°F/°C	0	-32,768 to 32,767	Delta applied to temperature reading	R/W	Y
MV1	Damper Override	Text	Dynamic	8 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"	R/W	N
MV3	Occupancy	Text	Dynamic	2 States	"1 - Unoccupied 2 - Occupied"	R	N
MV4	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
MV5	Occupancy Override	Text	Dynamic	3 States	"1 - No Override 2 - Force Unoccupied 3 - Force Occupied"	R/W	N
MV6	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
MV7	Binary Reheat Type	Text	Dynamic	9 States	"1 - Binary 2 - Hot Water/Binary 3 - Binary/PWM 4 - Hot Water/PWM 5 - Binary (dis, with hot air) 6 - Hot Water/Binary (dis, with hot air) 7 - Binary/PWM (dis, with hot air) 8 - Hot Water/PWM (dis, with hot air) 9 - Disabled"	R/W	Y

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Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
MV8	Application	Text	Dynamic	8 States	"1 - Air Terminal 2 - Fancoil (4-pipe) 3 - Fancoil (2-pipe) 4 - Dual Duct 5 - Exhaust Box 6 - Supply/Exhaust Box 7 - Mixing Box D.A.T 8 - CO2 Tracking 9 - Pressure Control "	R/W	Y
MV12	Control Mode	Text	1	3 States	"1 - Automatic 2 - Cooling Only 3 - Heating Only"	R/W	Y
MV13	Controller State	Text	Dynamic	3 States	"1 - Cooling 2 - Heating 3 - Deadband"	R	N
MV14	High Temperature Alarm	Text	5	5 States	"1 - Level 1 2 - Level 2 3 - Level 3 4 - Level 4 5 - No Alarm"	R	N
MV15	Low Temperature Alarm	Text	5	5 States	"1 - Level 1 2 - Level 2 3 - Level 3 4 - Level 4 5 - No Alarm"	R	N
MV16	Low Airflow Alarm	Text	5	5 States	"1 - Level 1 2 - Level 2 3 - Level 3 4 - Level 4 5 - No Alarm"	R	N
MV17	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

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Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
MV18	Temperature Units	Text	°F	2 States	"1 - Fahrenheit 2 - Celsius"	R/W	Y
MV19	Unoccupied Alarms	Text	Enabled	2 States	"1 - Disabled 2 - Enabled"	R/W	Y
MV20	MAC/DI Link	Text	Linked	2 States	"1 - Unlinked 2 - Linked"	R/W	Y