

Disio Display - DX 50 - Reheat

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
A01	Output 1	Volts DC	Dynamic	AV13 - AV15	Current output signal on Output 1 for Analog Heat (Limits Based On AV13 and AV15 Ranges)	R/W	Y
A02	Output 2	Volts DC	Dynamic	AV14 - AV16	Current output signal on Output 2 for Analog Heat (Limits Based On AV14 and AV16 Ranges)	R/W	Y
B01	Output 3	N/A	Dynamic	0 - 1	Current output signal on Output 3 for binary heat	R/W	Y
B02	Output 4	N/A	Dynamic	0 - 1	Current output signal on Output 4 for binary heat	R/W	Y
AV1	Room Temperature	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Room Temperature	R/W	N
AV2	Room Temperature Offset	°F/°C	0°F (0°C)	(-20)°F - 20°F (-11°C - 11°C)	Delta applied to temperature reading	R/W	Y
AV3	Room Temperature Setpoint	°F/°C	72°F (22°C)	AV11 - AV12	Current Room Temperature Setpoint	R/W	Y
AV4	Load	%	N/A	-100 to +100	Current Room Load (PI Value) 1 - 100 = Heating Load (-1) - (-100%) = Cooling Load	R	N
AV5	CM1 Kp	N/A	1	0 - 100	Control Method 1 Proportional for Room Temperature	R/W	Y
AV6	CM1 Ki	N/A	1	0 - 100	Control Method 1 Integral for Room Temperature	R/W	Y
AV7	CM1 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 1 Deadband for Room Temperature	R/W	Y
AV8	CM1 Pro Band	°F/°C	2°F (1°C)	0.50°F - 20°F (0.5°C - 11°C)	Control Method 1 Pro Band for Room Temperature	R/W	Y
AV9	Device Instance	-	4000101	0 - 4194303	BACnet device instance	R/W	Y
AV10	MAC	-	1	1 - 127	BACnet MAC address	R/W	Y
AV11	Room Temperature Minimum Setpoint	°F/°C	65°F (18.5°C)	32°F - AV12 (0°C - AV12)	Minimum user-adjustable setpoint.	R/W	Y
AV12	Room Temperature Maximum Setpoint	°F/°C	80°F (26.5°C)	AV11 - 100°F (AV11 - 38°C)	Maximum user-adjustable setpoint.	R/W	Y
AV13	Output 1 Min	Volts DC	0	0 - 10	Minimum output voltage for Output 1	R/W	Y
AV14	Output 2 Min	Volts DC	2	0 - 10	Minimum output voltage for Output 2	R/W	Y
AV15	Output 1 Max	Volts DC	10	0 - 10	Maximum output voltage for Output 1	R/W	Y
AV16	Output 2 Max	Volts DC	10	0 - 10	Maximum output voltage for Output 2	R/W	Y
AV17	Diagnostic Mode	N/A	0	N/A	For internal use only	R/W	N
MV1	Baud Rate	Text	76800	4 States	1- 9600 2- 19200 3- 38400 4- 76800	R/W	Y
MV2	Button Sensitivity	Text	1	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y
MV3	Proximity Sensitivity	Text	2	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y

Disio Display - DX 100 - LGB

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AI1	Input 1	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Supply Air Temperature when optional probe is connected to Input 1	R	N
A01	Output 3	Volts DC	Dynamic	AV22 - AV23	Current output signal on Output 1 for Analog Heat (Limits Based On AV22 and AV23 Ranges)	R/W	Y
B01	Output 1	N/A	Dynamic	0 - 1	Current output signal on Output 1 for damper open signal	R/W	Y
B02	Output 2	N/A	Dynamic	0 - 1	Current output signal on Output 3 for damper close signal	R/W	Y
B03	Output 4	N/A	Dynamic	0 - 1	Current output signal on Output 4 for binary heat	R/W	Y
AV1	Room Temperature	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Room Temperature	R/W	N
AV2	Room Temperature Offset	°F/°C	0°F (0°C)	(-20)°F - 20°F (-11°C - 11°C)	Delta applied to temperature reading	R/W	Y
AV3	SAT	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Supply Air Temperature	R	N
AV4	Room Temperature Setpoint	°F/°C	72°F (22°C)	AV19 - AV20	Current Room Temperature Setpoint	R/W	Y
AV5	Load	%	N/A	-100 to +100	Current Room Load (PI Value) 1 - 100 = Heating Load (-1) - (-100%) = Cooling Load	R	N
AV6	CM1 Kp	N/A	2	0 - 100	Control Method 1 Proportional for Room Temperature	R/W	Y
AV7	CM1 Ki	N/A	1	0 - 100	Control Method 1 Integral for Room Temperature	R/W	Y
AV8	CM2 Kp	N/A	25	0 - 100	Control Method 2 Proportional for Damper	R/W	Y
AV9	CM2 Ki	N/A	1	0 - 100	Control Method 2 Intergral for Damper	R/W	Y
AV10	Damper Position	%	N/A	0 - 100	Current Damper Position	R	N
AV11	Damper Target	%	N/A	0 - 100	Current Damper Target	R	N
AV12	CM1 Dead Band	N/A	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 1 Deadband for Room Temperurrre	R/W	Y
AV13	CM1 Pro Band	N/A	2°F (1°C)	0.50°F - 20°F 0.5°C - 11°C)	Control Method 1 Pro Band for Room Temperature	R/W	Y
AV14	CM2 Dead Band	N/A	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 2 Deadband for Valve with Supply Air Temperature (on no SAT probe detected, controller will use CM1 for control)	R/W	Y
AV15	CM2 Pro Band	N/A	2°F (1°C)	0.5°F - 20°F (0.5°C - 11°C)	Control Method 2 Pro Band for Valve with Supply Air Temperature (on no SAT probe detected, controller will use CM1 for control)	R/W	Y
AV16	Device Instance	N/A	4000101	0 - 4194303	BACnet device instance	R/W	Y
AV17	MAC	N/A	1	1 - 127	BACnet MAC address	R/W	Y
AV18	SAT Offset	°F/°C	0°F (0°C)	(-1000)°F - 1000°F (-255°C - 555°C)	Delta applied to supply air temperature reading	R/W	Y
AV19	Room Temperature Minimum Setpoint	°F/°C	65°F(18.5°C)	32°F - AV20 (0°C - AV20)	Minimum user-adjustable setpoint.	R/W	Y
AV20	Room Temperature Maximum Setpoint	°F/°C	80°F(26.5°C)	AV19 - 100°F (AV19 - 38°C)	Maximum user-adjustable setpoint.	R/W	Y
AV21	Cool Min Flow	%	0	0 - 100	Minimum cooling flow damper will target	R/W	Y
AV22	Heating Min Flow	%	0	0 - 100	Minimum heating flow damper will target	R/W	Y

Disio Display - DX 100 - LGB

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AV23	Cool Max Flow	%	100	0 - 100	Maximum cooling flow damper will target	R/W	Y
AV24	Heating Max Flow	%	100	0 - 100	Maximum heating flow damper will target	R/W	Y
AV25	Neutral Flow	%	0	0 - 100	Neutral heating flow the damper will target	R/W	Y
AV26	Damper Runtime	Seconds	95	1 - 600	Total runtime of the damper (this changes the time that the controller applies the open/close signal to the actuator, but cannot make the actuator run faster)	R/W	Y
AV27	Output 3 Min	V	0	0 - 10	Minimum output voltage for Output 3	R/W	Y
AV28	Output 3 Max	V	10	0 - 10	Maximum output voltage for Output 3	R/W	Y
AV29	Diagnostic Mode	N/A	N/A	N/A	For interal use only	R/W	N
MV1	HCCO State	Text	Dynamic	3 States	1- Neutral 2- Hot 3- Cold	R	N
MV2	Baud Rate	Text	76800	4 States	1- 9600 2- 19200 3- 38400 4- 76800	R/W	Y
MV3	Button Sensitivity	Text	1	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y
MV4	Proximit Sensitivity	Text	2	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y

Disio Display - DX 101 - Pressure Dependent Terminal

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AI1	Input 1	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Supply Air Temperature when optional probe is connected to Input 1	R	N
A01	Output 3	Volts DC	Dynamic	AV22 - AV23	Current output signal on Output 3 for Analog Heat (Limits Based On AV22 and AV23 Ranges)	R/W	Y
B01	Output 1	N/A	Dynamic	0 - 1	Current output signal on Output 1 for damper open signal	R/W	Y
B02	Output 2	N/A	Dynamic	0 - 1	Current output signal on Output 2 for damper close signal	R/W	Y
B03	Output 4	N/A	Dynamic	0 - 1	Current output signal on Output 4 for binary heat	R/W	Y
AV1	Room Temperature	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Room Temperature	R/W	N
AV2	Room Temperature Offset	°F/°C	0°F (0°C)	(-20)°F - 20°F (-11°C - 11°C)	Delta applied to temperature reading	R/W	Y
AV3	SAT	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Supply Air Temperature	R	N
AV4	Room Temperature Setpoint	°F/°C	72°F (22°C)	AV19 - AV20	Current Room Temperature Setpoint	R/W	Y
AV5	Load	%	N/A	-100 to +100	Current Room Load (PI Value) 1 - 100 = Heating Load (-1) - (-100%) = Cooling Load	R	N
AV6	CM1 Kp	N/A	2	0 - 100	Control Method 1 Proportional for Room Temperature	R/W	Y
AV7	CM1 Ki	N/A	1	0 - 100	Control Method 1 Integral for Room Temperature	R/W	Y
AV8	CM2 Kp	N/A	25	0 - 100	Control Method 2 Proportional for Damper	R/W	Y
AV9	CM2 Ki	N/A	1	0 - 100	Control Method 2 Intergral for Damper	R/W	Y
AV10	Damper Position	%	N/A	0 - 100	Current Damper Position	R	N
AV11	Damper Target	%	N/A	0 - 100	Current Damper Target	R	N
AV12	CM1 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 1 Deadband for Room Temperurrre	R/W	Y
AV13	CM1 Pro Band	°F/°C	2°F (1°C)	0.50°F - 20°F (0.5°C - 11°C)	Control Method 1 Pro Band for Room Temperature	R/W	Y
AV14	CM2 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 2 Deadband for Valve with Supply Air Temperature (on no SAT probe detected, controller will use CM1 for control)	R/W	Y
AV15	CM2 Pro Band	°F/°C	2°F (1°C)	0.5°F - 20°F (0.5°C - 11°C)	Control Method 2 Pro Band for Valve with Supply Air Temperature (on no SAT probe detected, controller will use CM1 for control)	R/W	Y
AV16	Device Instance	N/A	4000101	0 - 4194303	BACnet device instance	R/W	Y
AV17	MAC	N/A	1	1 - 127	BACnet MAC address	R/W	Y
AV18	SAT Offset	°F/°C	0°F (0°C)	(-1000)°F - 1000°F (-255°C - 555°C)	Delta applied to supply air temperature reading	R/W	Y
AV19	Room Temperature Minimum Setpoint	°F/°C	65°F(18.5°C)	32°F - AV20 (0°C - AV20)	Minimum user-adjustable setpoint.	R/W	Y
AV20	Room Temperature Maximum Setpoint	°F/°C	80°F(26.5°C)	AV19 - 100°F (AV19 - 38°C)	Maximum user-adjustable setpoint.	R/W	Y
AV21	Cool Min Flow	%	0	0 - 100	Minimum cooling flow damper will target	R/W	Y
AV22	Heating Min Flow	%	0	0 - 100	Minimum heating flow damper will target	R/W	Y

Disio Display - DX 101 - Pressure Dependent Terminal

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AV23	Cool Max Flow	%	100	0 - 100	Maximum cooling flow damper will target	R/W	Y
AV24	Heating Max Flow	%	100	0 - 100	Maximum heating flow damper will target	R/W	Y
AV25	Neutral Flow	%	0	0 - 100	Neutral heating flow the damper will target	R/W	Y
AV26	Damper Runtime	Seconds	95	1 - 600	Total runtime of the damper (this changes the time that the controller applies the open/close signal to the actuator, but cannot make the actuator run faster)	R/W	Y
AV27	Output 3 Min	V	0	0 - 10	Minimum output voltage for Output 3	R/W	Y
AV28	Output 3 Max	V	10	0 - 10	Maximum voltage for Output 3	R/W	Y
AV29	Diagnostic Mode	N/A	N/A	N/A	For internal use only	R/W	N
MV1	HCCO State	Text	Dynamic	3 States	1- Neutral 2- Hot 3- Cold	R	N
MV2	Baud Rate	Text	76800	4 States	1- 9600 2- 19200 3- 38400 4- 76800	R/W	Y
MV3	Button Sensitivity	Text	1	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y
MV4	Proximity Sensitivity	Text	2	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y

Disio Display - DX 300 - Variable Speed ECM 2-Pipe Binary HCCO

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AI1	Input 1	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Supply Pipe Temperature when probe is connected to Input 1	R	N
AI2	Input 2	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature when probe is connected to Input 2	R	N
A01	Output 1	Volts DC	Dynamic	AV21 - AV22	Current output signal on Output 1 for ECM Fan (Limits Based On AV21 and AV22 Ranges)	R/W	Y
B01	Output 2	N/A	Dynamic	0 - 1	Current output signal on Output 2 for binary valve	R/W	Y
AV1	Room Temperature	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Room Temperature	R/W	N
AV2	Room Temperature Offset	°F/°C	0°F (0°C)	(-20)°F - 20°F (-11°C - 11°C)	Delta applied to temperature reading	R/W	Y
AV3	DAT	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature	R	N
AV4	SAT	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Supply Air Temperature	R	N
AV5	Room Temperature Setpoint	°F/°C	72°F (22°C)	AV19 - AV20	Current Room Temperature Setpoint	R/W	Y
AV6	Load	%	N/A	-100 to +100	Current Room Load (PI Value) 1 - 100 = Heating Load (-1) - (-100%) = Cooling Load	R	N
AV7	CM1 Kp	N/A	25	0 - 100	Control Method 1 Proportional for Room Temperature	R/W	Y
AV8	CM1 Ki	N/A	1	0 - 100	Control Method 1 Integral for Room Temperature	R/W	Y
AV9	Peek Interval	Minutes	600	1 - No Limit	The moment the valve is shut, this timer will start counting down. When it expires, the controller will open the valve to check on the water temperature	R/W	Y
AV10	Peak Length	Minutes	5	1 - No Limit	Amount of time the controller will open the valve to check if system is heating or cooling	R/W	N
AV11	CM1 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 1 Deadband for Room Temperature and Fan	R/W	Y
AV12	CM1 Pro Band	°F/°C	2°F (1°C)	0.50°F - 20°F (0.5°C - 11°C)	Control Method 1 Pro Band for Room Temperature and Fan	R/W	Y
AV13	CM2 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 2 Deadband for Valve with Discharge Air Temperature (on no DAT probe detected, controller will use CM1 for control)	R/W	Y
AV14	CM2 Pro Band	°F/°C	2°F (1°C)	0.5°F - 20°F (0.5°C - 11°C)	Control Method 2 Pro Band for Valve with Discharge Air Temperature (on no DAT probe detected, controller will use CM1 for control)	R/W	Y
AV15	Device Instance	N/A	4000101	0 - 4194303	BACnet device instance	R/W	Y
AV16	MAC	N/A	1	1 - 127	BACnet MAC address	R/W	Y
AV17	DAT Offset	°F/°C	0°F (0°C)	(-1000)°F - 1000°F (-255°C - 555°C)	Delta applied to discharge air temperature reading	R/W	Y
AV18	SAT Offset	°F/°C	0°F (0°C)	(-1000)°F - 1000°F (-255°C - 555°C)	Delta applied to supply air temperature reading	R/W	Y
AV19	Room Temperature Minimum Setpoint	°F/°C	65°F (18.5°C)	32°F - AV20 (0°C - AV20)	Minimum user-adjustable setpoint.	R/W	Y
AV20	Room Temperature Maximum Setpoint	°F/°C	80°F (26.5°C)	AV19 - 100°F (AV19 - 38°C)	Maximum user-adjustable setpoint.	R/W	Y

Disio Display - DX 300 - Variable Speed ECM 2-Pipe Binary HCCO

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AV21	Output 1 Min	Volts DC	2.1	0 - 10	Minimum output voltage for Output 1	R/W	Y
AV22	Output 1 Max	Volts DC	8	0 - 10	Maximum output voltage for Output 1	R/W	Y
AV23	Diagnostic Mode	N/A	N/A	N/A	For internal use only	R/W	N
MV1	HCCO State	Text	Dynamic	3 States	1- Neutral 2- Hot 3- Cold	R	N
MV2	Baud Rate	Text	76800	4 States	1- 9600 2- 19200 3- 38400 4- 76800	R/W	Y
MV3	Button Sensitivity	Text	1	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y
MV4	Proximity Sensitivity	Text	2	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y

Disio Display - DX 301 - Variable Speed ECM 2-Pipe Modulating HCCO

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AI1	Input 1	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Supply Pipe Temperature when probe is connected to Input 1	R	N
AI2	Input 2	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature when probe is connected to Input 2	R	N
A01	Output 1	Volts DC	Dynamic	AV24 - AV26	Current output signal on Output 1 for ECM Fan (Limits Based On AV24 and AV26 Ranges)	R/W	Y
A02	Output 2	Volts DC	Dynamic	AV25 - AV27	Current output signal on Output 2 for Modulating Valve (Limits Based On AV25 and AV27 Ranges)	R/W	Y
AV1	Room Temperature	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Room Temperature	R/W	N
AV2	Room Temperature Offset	°F/°C	0°F (0°C)	(-20)°F - 20°F (-11°C - 11°C)	Delta applied to temperature reading	R/W	Y
AV3	DAT	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature	R	N
AV4	SAT	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Supply Air Temperature	R	N
AV5	Room Temperature Setpoint	°F/°C	72°F (22°C)	AV22 - AV23	Current Room Temperature Setpoint	R/W	Y
AV6	DAT Setpoint	°F/°C	75°F (24°C)	32°F - 220°F (0°C - 104°C)	Discharge Air Temperature Setpoint	R/W	Y
AV7	Load	%	N/A	-100 to +100	Current Room Load (PI Value) 1 - 100 = Heating Load (-1) - (-100%) = Cooling Load	R	N
AV8	DAT Cold Setpoint	°F/°C	55°F (13°C)	32°F - 220°F (0°C - 104°C)	Discharge Air Temperature Cold Setpoint	R/W	Y
AV9	DAT Hot Setpoint	°F/°C	90°F (32°C)	32°F - 220°F (0°C - 104°C)	Discharge Air Temperature Hot Setpoint	R/W	Y
AV10	CM1 Kp	N/A	25	0-100	Control Method 1 Proportional for Room Temperature	R/W	Y
AV11	CM1 Ki	N/A	1	0-100	Control Method 1 Integral for Room Temperature	R/W	Y
AV12	Peek Interval	Minutes	600	1 - No Limit	The moment the valve is shut, this timer will start counting down. When it expires, the controller will open the valve to check on the water temperature	R/W	Y
AV13	Peak Length	Minutes	5	1 - No Limit	Amount of time the controller will open the valve to check if system is heating or cooling	R/W	Y
AV14	CM1 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 1 Deadband for Room Temperature and Fan	R/W	Y
AV15	CM1 Pro Band	°F/°C	2°F (1°C)	0.50°F - 20°F (0.5°C - 11°C)	Control Method 1 Pro Band for Room Temperature and Fan	R/W	Y
AV16	CM2 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 2 Deadband for Valve with Discharge Air Temperature (on no DAT probe detected, controller will use CM1 for control)	R/W	Y
AV17	CM2 Pro Band	°F/°C	2°F (1°C)	0.5°F - 20°F (0.5°C - 11°C)	Control Method 2 Pro Band for Valve with Discharge Air Temperature (on no DAT probe detected, controller will use CM1 for control)	R/W	Y
AV18	Device Instance	N/A	4000101	0 - 4194303	BACnet device instance	R/W	Y
AV19	MAC	N/A	1	1 - 127	BACnet MAC address	R/W	Y

Disio Display - DX 301 - Variable Speed ECM 2-Pipe Modulating HCCO

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AV20	DAT Offset	°F/°C	0°F (0°C)	(-1000)°F - 1000°F (-255°C - 555°C)	Delta applied to discharge air temperature reading	R/W	Y
AV21	SAT Offset	°F/°C	0°F (0°C)	(-1000)°F - 1000°F (-255°C - 555°C)	Delta applied to supply air temperature reading	R/W	Y
AV24	Output 1 Min	Volts DC	2.1	0 - 10	Minimum output voltage for Output 1	R/W	Y
AV25	Output 2 Min	Volts DC	0	0 - 10	Minimum output voltage for Output 2	R/W	Y
AV26	Output 1 Max	Volts DC	8	0 - 10	Maximum output voltage for Output 1	R/W	Y
AV27	Output 2 Max	Volts DC	10	0 - 10	Maximum output voltage for Output 2	R/W	Y
AV28	CM2 Hold Time	Minutes	1	1 - 20	Control Method 2 Hold Time before taking a step	R/W	Y
AV29	CM2 Min Step Size	%	2	1 - AV30	Control Method 2 Minimum Step Size	R/W	Y
AV30	CM2 Max Step Size	%	7	AV29 - 100	Control Method 2 Maximum Step Size	R/W	Y
AV31	Diagnostic Mode	N/A	N/A	N/A	For internal use only	R/W	N
MV1	HCCO State	Text	Dynamic	3 States	1- Neutral 2- Hot 3- Cold	R	N
MV2	Baud Rate	Text	76800	4 States	1- 9600 2- 19200 3- 38400 4- 76800	R/W	Y
MV3	Button Sensitivity	Text	1	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y
MV4	Proximity Sensitivity	Text	2	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y

Disio Display - DX 302 - Variable Speed ECM 4-Pipe Binary

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AI1	Input 1	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature when probe is connected to Input 1	R	N
A01	Output 1	Volts DC	Dynamic	0 - 10VDC	Current output signal on Output 1 for ECM Fan	R/W	Y
B01	Output 2	N/A	Dynamic	0 - 1	Current output signal on Output 2 for binary cooling valve	R/W	Y
B02	Output 3	N/A	Dynamic	0 - 1	Current output signal on Output 3 for binary heating valve	R/W	Y
AV1	Room Temperature	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Room Temperature	R/W	N
AV2	Room Temperature Offset	°F/°C	0°F (0°C)	(-20)°F - 20°F (-11°C - 11°C)	Delta applied to temperature reading	R/W	Y
AV3	DAT	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature	R	N
AV4	Room Temperature Setpoint	°F/°C	72°F (22°C)	AV13 - AV14	Current Room Temperature Setpoint	R/W	Y
AV5	Load	%	N/A	-100 to +100	Current Room Load (PI Value) 1 - 100 = Heating Load (-1) - (-100%) = Cooling Load	R	N
AV6	CM1 Kp	N/A	1	0 - 100	Control Method 1 Proportional for Room Temperature	R/W	Y
AV7	CM1 Ki	N/A	1	0 - 100	Control Method 1 Integral for Room Temperature	R/W	Y
AV8	CM1 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 1 Deadband for Room Temperature and Fan	R/W	Y
AV9	CM1 Pro Band	°F/°C	2°F (1°C)	0.50°F - 20°F (0.5°C - 11°C)	Control Method 1 Pro Band for Room Temperature and Fan	R/W	Y
AV10	Device Instance	N/A	4000101	0 - 4194303	BACnet device instance	R/W	Y
AV11	MAC	N/A	1	1 - 127	BACnet MAC address	R/W	Y
AV12	DAT Offset	°F/°C	0°F (0°C)	(-1000)°F - 1000°F (-255°C - 555°C)	Delta applied to discharge air temperature reading	R/W	Y
AV13	Room Temperature Minimum Setpoint	°F/°C	65°F(18.5°C)	32°F - AV14 (0°C - AV14)	Minimum user-adjustable setpoint.	R/W	Y
AV14	Room Temperature Maximum Setpoint	°F/°C	80°F(26.5°C)	AV13 - 100°F (AV13 - 38°C)	Maximum user-adjustable setpoint.	R/W	Y
AV15	Diagnostic Mode	N/A	N/A	N/A	For internal use only	R/W	N
MV1	Baud Rate	Text	76800	4 States	1- 9600 2- 19200 3- 38400 4- 76800	R/W	Y
MV2	Button Sensitivity	Text	1	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y
MV3	Proximity Sensitivity	Text	2	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y

Disio Display - DX 303 - 4-Pipe Modulating Cooling & Binary Heating

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AI1	Input 1	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature when probe is connected to Input 1	R	N
A01	Output 1	Volts DC	Dynamic	AV17 - AV19	Current output signal on Output 1 for ECM Fan (Limits Based On A17 and AV19 Ranges)	R/W	Y
A02	Output 3	Volts DC	Dynamic	AV18 - AV20	Current output signal on Output 3 for modulating cooling valve (Limits Based On AV18 and AV20 Ranges)	R/W	Y
B01	Output 2	N/A	Dynamic	0 - 1	Current output signal on Output 2 for binary heat	R/W	Y
AV1	Room Temperature	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Room Temperature	R/W	N
AV2	Room Temperature Offset	°F/°C	0°F (0°C)	(-20) - 20	Delta applied to temperature reading	R/W	Y
AV3	DAT	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature	R	Y
AV4	Room Temperature Setpoint	°F/°C	72°F	AV15 - AV16	Current Room Temperature Setpoint	R/W	Y
AV5	Load	%	N/A	-100 to +100	Current Room Load (PI Value) 1 - 100 = Heating Load (-1) - (-100%) = Cooling Load	R	N
AV6	DAT Cold Setpoint	°F/°C	55°F (12.7°C)	32°F - 220°F (0°C - 104°C)	Discharge Air Temperature Cold Setpoint	R/W	Y
AV7	CM1 Kp	N/A	1	0 - 100	Control Method 1 Proportional for Room Temperature	R/W	Y
AV8	CM1 Ki	N/A	1	0 - 100	Control Method 1 Integral for Room Temperature	R/W	Y
AV9	CM1 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 1 Deadband for Room Temperature and Fan	R/W	Y
AV10	CM1 Pro Band	°F/°C	2°F (1°C)	0.50°F - 20°F (0.5°C - 11°C)	Control Method 1 Pro Band for Room Temperature and Fan	R/W	Y
AV11	CM2 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 2 Deadband for Valve with Discharge Air Temperature (on no DAT probe detected, controller will use CM1 for control)	R/W	Y
AV12	CM2 Pro Band	°F/°C	2°F (1°C)	0.5°F - 20°F (0.5°C - 11°C)	Control Method 2 Pro Band for Valve with Discharge Air Temperature (on no DAT probe detected, controller will use CM1 for control)	R/W	Y
AV13	Device Instance	-	4000101	0 - 4194303	BACnet device instance	R/W	Y
AV14	MAC	-	1	1 - 127	BACnet MAC address	R/W	Y
AV15	Room Temperature Minimum Setpoint	°F/°C	64°F(18°C)	32°F-AV16 (0°C - AV16)	Minimum user-adjustable setpoint.	R/W	Y
AV16	Room Temperature Maximum Setpoint	°F/°C	80°F(26°C)	AV15 - 100°F (AV15 - 38°C)	Maximum user-adjustable setpoint.	R/W	Y
AV17	Output 1 Min	Volts DC	2.1	0 - 10	Minimum output voltage for Output 1	R/W	Y
AV18	Output 3 Min	Volts DC	0	0 - 10	Minimum output voltage for Output 3	R/W	Y
AV19	Output 1 Max	Volts DC	8	0 - 10	Maximum output voltage for Output 1	R/W	Y
AV20	Output 3 Max	Volts DC	10	0 - 10	Maximum output voltage for Output 3	R/W	Y
AV21	CM2 Hold Time	Minutes	1	1 - 20	Control Method 2 Hold Time before taking a step	R/W	Y
AV22	CM2 Min Step Size	%	2	1 - AV23	Control Method 2 Minimum Step Size	R/W	Y
AV23	CM2 Max Step Size	%	7	AV22 - 100	Control Method 2 Maximum Step Size	R/W	Y

Disio Display - DX 303 - 4-Pipe Modulating Cooling & Binary Heating

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AV24	Diagnostic Mode	N/A	N/A	N/A	For internal use only	R/W	N
MV1	Baud Rate	Text	76800	4 States	1- 9600 2- 19200 3- 38400 4- 76800	R/W	Y
MV2	Button Sensitivity	Text	1	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y
MV3	Proximit Sensitivity	Text	2	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y

Disio Display - DX 304 - 4-Pipe Modulating Cooling & Heating

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AI1	Input 1	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature when probe is connected to Input 1	R	N
A01	Output 1	Volts DC	Dynamic	AV19 - AV22	Current output signal on Output 1 for ECM Fan (Limits Based On AV19 and AV22 Ranges)	R/W	Y
A02	Output 2	Volts DC	Dynamic	AV20 - AV23	Current output signal on Output 2 for modulating heating (Limits Based On AV20 and AV23 Ranges)	R/W	Y
A03	Output 3	Volts DC	Dynamic	AV21 - AV24	Current output signal on Output 3 for modulating cooling (Limits Based On AV21 and AV24 Ranges)	R/W	Y
AV1	Room Temperature	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Room Temperature	R/W	N
AV2	Room Temperature Offset	°F/°C	0°F (0°C)	(-20)°F - 20°F (-11°C - 11°C)	Delta applied to temperature reading	R/W	Y
AV3	DAT	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature	R	N
AV4	Room Temperature Setpoint	°F/°C	72°F (22°C)	AV17 - AV18	Current Room Temperature Setpoint	R/W	Y
AV5	Load	%	N/A	-100 to +100	Current Room Load (PI Value) 1 - 100 = Heating Load (-1) - (-100%) = Cooling Load	R	N
AV6	DAT Cold Setpoint	°F/°C	55°F (13°C)	32°F - 220°F (0°C - 104°C)	Discharge Air Temperature Cold Setpoint	R/W	Y
AV7	DAT Hot Setpoint	°F/°C	92°F (32°C)	32°F - 220°F (0°C - 104°C)	Discharge Air Temperature Hot Setpoint	R/W	Y
AV8	CM1 Kp	N/A	1	0 - 100	Control Method 1 Proportional for Room Temperature	R/W	Y
AV9	CM1 Ki	N/A	1	0 - 100	Control Method 1 Integral for Room Temperature	R/W	Y
AV10	CM1 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 1 Deadband for Room Temperature and Fan	R/W	Y
AV11	CM1 Pro Band	°F/°C	2°F (1°C)	0.50°F - 20°F (0.5°C - 11°C)	Control Method 1 Pro Band for Room Temperature and Fan	R/W	Y
AV12	CM2 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 2 Deadband for Valve with Discharge Air Temperature (on no DAT probe detected, controller will use CM1 for control)	R/W	Y
AV13	CM2 Pro Band	°F/°C	2°F (1°C)	0.5°F - 20°F (0.5°C - 11°C)	Control Method 2 Pro Band for Valve with Discharge Air Temperature (on no DAT probe detected, controller will use CM1 for control)	R/W	Y
AV14	Device Instance	-	4000101	0 - 4194303	BACnet device instance	R/W	Y
AV15	MAC	-	1	1 - 127	BACnet MAC address	R/W	Y
AV16	DAT Offset	°F/°C	0°F (0°C)	(-1000)°F - 1000°F (-255°C - 555°C)	Delta applied to discharge air temperature reading	R/W	Y
AV17	Room Temperature Minimum Setpoint	°F/°C	65°F (18.5°C)	32°F-AV18 (0°C - AV18)	Minimum user-adjustable setpoint.	R/W	Y
AV18	Room Temperature Maximum Setpoint	°F/°C	80°F (26.5°C)	AV17 - 100°F (AV17 - 38°C)	Maximum user-adjustable setpoint.	R/W	Y
AV19	Output 1 Min	Volts DC	2.1	0 - 10	Minimum output voltage for Output 1	R/W	Y
AV20	Output 2 Min	Volts DC	0	0 - 10	Minimum output voltage for Output 2	R/W	Y

Disio Display - DX 304 - 4-Pipe Modulating Cooling & Heating

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AV21	Output 3 Min	Volts DC	0	0 - 10	Minimum output voltage for Output 3	R/W	Y
AV22	Output 1 Max	Volts DC	8	0 - 10	Maximum output voltage for Output 1	R/W	Y
AV23	Output 2 Max	Volts DC	10	0 - 10	Maximum output voltage for Output 2	R/W	Y
AV24	Output 3 Max	Volts DC	10	0 - 10	Maximum output voltage for Output 3	R/W	Y
AV25	CM2 Hold Time	Minutes	1	1 - 20	Control Method 2 Hold Time before taking a step	R/W	Y
AV26	CM2 Min Step Size	%	2	1 - AV27	Control Method 2 Minimum Step Size	R/W	Y
AV27	CM2 Max Step Size	%	7	AV26 - 100	Control Method 2 Maximum Step Size	R/W	Y
AV28	Diagnostic Mode	N/A	N/A	N/A	For interal use only	R/W	N
MV1	Baud Rate	Text	76800	4 States	1- 9600 2- 19200 3- 38400 4- 76800	R/W	Y
MV2	Button Sensitivity	Text	1	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y
MV3	Proximit Sensitivity	Text	2	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y

Disio Display - DX 305 - 4-Pipe Binary Cooling & Modulating Heating

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AI1	Input 1	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature when probe is connected to Input 1	R	N
A01	Output 1	Volts DC	Dynamic	AV18 - AV21	Current output signal on Output 1 for ECM Fan (Limits Based On AV18 and AV21 Ranges)	R/W	Y
A02	Output 2	Volts DC	Dynamic	AV19 - AV22	Current output signal on Output 2 for modulating heating (Limits Based On AV19 and AV22 Ranges)	R/W	Y
B01	Output 3	N/A	Dynamic	0 - 1	Current output signal on Output 3 for binary cooling	R/W	Y
AV1	Room Temperature	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Room Temperature	R/W	N
AV2	Room Temperature Offset	°F/°C	0°F (0°C)	(-20)°F - 20°F (-11°C - 11°C)	Delta applied to temperature reading	R/W	Y
AV3	DAT	°F/°C	N/A	0°F - 220 °F (-18°C - 105°C)	Current Discharge Air Temperature	R	N
AV4	Room Temperature Setpoint	°F/°C	72°F (22°C)	AV16 - AV17	Current Room Temperature Setpoint	R/W	Y
AV5	Load	%	N/A	-100 to +100	Current Room Load (PI Value) 1 - 100 = Heating Load (-1) - (-100%) = Cooling Load	R	N
AV6	DAT Hot Setpoint	°F/°C	92°F (32°C)	32°F - 220°F (0°C - 104°C)	Discharge Air Temperature Hot Setpoint	R/W	Y
AV7	CM1 Kp	N/A	1	0 - 100	Control Method 1 Proportional for Room Temperature	R/W	Y
AV8	CM1 Ki	N/A	1	0 - 100	Control Method 1 Integral for Room Temperature	R/W	Y
AV9	CM1 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 1 Deadband for Room Temperature and Fan	R/W	Y
AV10	CM1 Pro Band	°F/°C	2°F (1°C)	0.50°F - 20°F (0.5°C - 11°C)	Control Method 1 Pro Band for Room Temperature and Fan	R/W	Y
AV11	CM2 Dead Band	°F/°C	1°F (0.5°C)	0.5°F - 10°F (0.5°C - 5°C)	Control Method 2 Deadband for Valve with Discharge Air Temperature (on no DAT probe detected, controller will use CM1 for control)	R/W	Y
AV12	CM2 Pro Band	°F/°C	2°F (1°C)	0.5°F - 20°F (0.5°C - 11°C)	Control Method 2 Pro Band for Valve with Discharge Air Temperature (on no DAT probe detected, controller will use CM1 for control)	R/W	Y
AV13	Device Instance	-	4000101	0 - 4194303	BACnet device instance	R/W	Y
AV14	MAC	-	1	1 - 127	BACnet MAC address	R/W	Y
AV15	DAT Offset	°F/°C	0°F (0°C)	(-1000)°F - 1000°F (-255°C - 555°C)	Delta applied to discharge air temperature reading	R/W	Y
AV16	Room Temperature Minimum Setpoint	°F/°C	65°F(18.5°C)	32°F-AV17 (0°C - AV17)	Minimum user-adjustable setpoint.	R/W	Y
AV17	Room Temperature Maximum Setpoint	°F/°C	80°F(26.5°C)	AV16 - 100°F (AV16 - 38°C)	Maximum user-adjustable setpoint.	R/W	Y
AV18	Output 1 Min	V	2.1	0 - 10	Minimum output voltage for Output 1	R/W	Y
AV19	Output 2 Min	V	0	0 - 10	Minimum output voltage for Output 2	R/W	Y
AV20	Output 3 Min	V	0	0 - 10	Minimum output voltage for Output 3	R/W	Y
AV21	Output 1 Max	V	8	0 - 10	Maximum output voltage for Output 1	R/W	Y

Disio Display - DX 305 - 4-Pipe Binary Cooling & Modulating Heating

Firmware v1.3.0

Object	Name	Units	Default	Range	Description	R/W	Retained on Power Failure
AV22	Output 2 Max	V	10	0 - 10	Maximum output voltage for Output 2	R/W	Y
AV23	Output 3 Max	V	1	0 - 10	Maximum output voltage for Output 3	R/W	Y
AV24	CM2 Hold Time	Minutes	1	1 - 20	Control Method 2 Hold Time before taking a step	R/W	Y
AV25	CM2 Min Step Size	%	2	1 - AV26	Control Method 2 Minimum Step Size	R/W	Y
AV26	CM2 Max Step Size	%	7	AV25 - 100	Control Method 2 Maximum Step Size	R/W	Y
AV27	Diagnostic Mode	N/A	N/A	N/A	For interal use only	R/W	N
MV1	Baud Rate	Text	76800	4 States	1- 9600 2- 19200 3- 38400 4- 76800	R/W	Y
MV2	Button Sensitivity	Text	1	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y
MV3	Proximit Sensitivity	Text	2	3 States	1- Low Sensitivity 2- Medium Sensitivity 3- High Sensitivity	R/W	Y