

Modbus Make Up Air Configuration Properties

Modbus Object Type: Holding Registers

Name	Default	Min	Max	Units	Modbus Reg #	Multiplier	Focus Screen	Modbus Notes
Device Type	10	10	10	None	1	1	Device	(Not writable) 10=MakeUpAir
Device Soft Ver	7.1	0	655.35	None	2	100	Device	(Not writable)
Device Hard Ver	3.1	0	0	None	3	10	Device	(Not writable) 3.0=M1000 / 3.1=M2000
Net Baud	3	0	5	None	4	1	Baud Rate	0=9600 / 1=19200 / 2=38400 / 3=57600 / 4=76800 / 5=115200
RJ45 Baud	3	0	5	None	5	1	Baud Rate	0=9600 / 1=19200 / 2=38400 / 3=57600 / 4=76800 / 5=115200
Net Parity	0	0	2	None	6	1	Baud Rate	0=NONE / 1=ODD / 2=EVEN
RJ45 Parity	0	0	2	None	7	1	Baud Rate	0=NONE / 1=ODD / 2=EVEN
Net StopBits	0	0	1	None	8	1	Baud Rate	0=1 Stop Bit / 1=2 Stop Bits
RJ45 StopBits	0	0	1	None	9	1	Baud Rate	0=1 Stop Bit / 1=2 Stop Bits
Location	0	0	65535	None	10	1	Device	Each reg holds 2 chars -- 16 chars max -- 8 regs (Regs 10-17)
Zone Proportionnal	3	0	10	deg C	18	100		
Zone Heat Integral	15	0	120	min	19	1		
Zone Cool Integral	15	0	120	min	20	1		
Default Zone Heat SP	21.5	-30	40	deg C	21	100		
Default Zone Cool SP	22.5	-29.5	55	deg C	22	100		
Minimum Zone Heat SP	19	-30	40	deg C	23	100		
Maximum Zone Heat SP	25	-30	40	deg C	24	100		
Minimum Zone Cool SP	20	-29.5	55	deg C	25	100		
Maximum Zone Cool SP	26	-29.5	55	deg C	26	100		
Unoccupied Mode Override Time	120	0	720	min	27	1		When the override button on the thermostat is pushed during unoccupied mode, the controller temporarily returns to occupied mode for this amount of time.

Outside Air Temp Calibration	0	-20	20	deg C	28	100	Calibration	
Discharge Air Temp Calibration	0	-20	20	deg C	29	100	Calibration	
Zone Air Temp Offset	0	-20	20	deg C	30	100		
Pressure Offset	0	-50	50	Pascal s	31	10		
CO2 Offset	0	-3000	3000	ppm	32	1		
Number of cooling stages	1	0	2	None	33	1		
Analog Out 1 Range	0	0	1	None	34	1	Hardware	0 = 0-10VDC / 1=2-10VDC
Analog Out 1 Reverse Acting	0	0	1	None	35	1	Hardware	
Analog Out 3 Range	0	0	1	None	36	1	Hardware	0 = 0-10VDC / 1=2-10VDC
Analog Out 3 Reverse Acting	0	0	1	None	37	1	Hardware	
Pressure Input Mode	0	0	2	None	38	1		0=-25 to +25 Pa / 1=-50 to +50 Pa / 2=-100 to +100 Pa / 3=-62.5 to +62.5 Pa / 4=-125 to +125 Pa
Pressure Input Voltage	0	0	1	None	39	1		0=0-5V / 1=1-5V
Network Supply Temp Source	0	0	127	None	40	1	Network	
Math Refresh Rate	3	1	250	sec	41	1	Math	
Group Code 1	0	0	250	None	42	1		
Group Code 2	0	0	250	None	43	1		
Group Code 3	0	0	250	None	44	1		
Group Weight 1	0	0	15	None	45	1		
Group Weight 2	0	0	15	None	46	1		
Group Weight 3	0	0	15	None	47	1		
Global Weight	1	0	60	None	48	1		
List Refresh Rate	30	0	250	min	49	1	Math	
Math 1 Source	0	0	255	None	50	1	Math	0=WeightedAverage / 1=MaxHeating / 2=MaxCooling / 3=WeightedAverage (HeatOnly) / 4=WeightedAverage(CoolOnly) / 5=MathOccupancy / 6=MathOverride / 7=RadiantReq / Else=OFF

Math 2 Source	0	0	255	None	51	1	Math	0=WeightedAverage / 1=MaxHeating / 2=MaxCooling / 3=WeightedAverage (HeatOnly) / 4=WeightedAverage(CoolOnly) / 5=MathOccupancy / 6=MathOverride / 7=RadiantReq / Else=OFF
Math 3 Source	0	0	255	None	52	1	Math	0=WeightedAverage / 1=MaxHeating / 2=MaxCooling / 3=WeightedAverage (HeatOnly) / 4=WeightedAverage(CoolOnly) / 5=MathOccupancy / 6=MathOverride / 7=RadiantReq / Else=OFF
Math 4 Source	0	0	255	None	53	1	Math	0=WeightedAverage / 1=MaxHeating / 2=MaxCooling / 3=WeightedAverage (HeatOnly) / 4=WeightedAverage(CoolOnly) / 5=MathOccupancy / 6=MathOverride / 7=RadiantReq / Else=OFF
Math 5 Source	0	0	255	None	54	1	Math	0=WeightedAverage / 1=MaxHeating / 2=MaxCooling / 3=WeightedAverage (HeatOnly) / 4=WeightedAverage(CoolOnly) / 5=MathOccupancy / 6=MathOverride / 7=RadiantReq / Else=OFF
Math 1 Group	0	0	250	None	55	1	Math	
Math 2 Group	0	0	250	None	56	1	Math	
Math 3 Group	0	0	250	None	57	1	Math	
Math 4 Group	0	0	250	None	58	1	Math	
Math 5 Group	0	0	250	None	59	1	Math	
Demand Filter	10	0	100	%	60	1		
Math Unoccupied Mode	0	0	1	None	61	1	Math	0=MAX DEMAND / 1=NORMAL
Discharge Temp Low Limit	4	-40	40	deg C	62	100		
Discharge Temp Re- enable	12	-40	40	deg C	63	100		
Damper Run Time while below Discharge Lim	15	0	60	min	64	1		

Discharge Low Limit repeat time	60	0	1000 min	65	1	Time between first and third occurrence. Will then go into lockout mode.
Damper open Time without proof	5	0	1000 min	66	1	
Fan run time without proof	5	0	1000 min	67	1	
Volume Sequence Type	0	0	2 None	68	1	0=Single Volume / 1=Dual Volume / 2=Variable Volume
VFD controlled by CO2	0	0	1 None	69	1	0=Controlled by pressure / 1=Controlled by CO2
VFD Min Volts	0	0	10 volts	70	10	
VFD Max Volts	10	0	10 volts	71	10	
CO2 Setpoint	800	0	1500 ppm	72	1	
CO2 Proportionnal	200	0	1000 ppm	73	1	
Pressure Setpoint	0	-100	100 s Pascal	74	1	
Pressure Proportionnal	20	0	100 s Pascal	75	1	
Pressure Integral	15	0	100 min	76	1	
Summer Seq En Out Temp	23	-30	40 deg C	77	100	
Control cooling based on demand	1	0	1 None	78	1	
Compressor Min ON Time	2	0	10 min	79	1	
Compressor Min OFF Time	5	0	15 min	80	1	
Cool Stage 1 Out Enable Temp	23	-30	40 deg C	81	100	
Cool Stage 2 Out Enable Temp	25	-30	40 deg C	82	100	
Cool Stage 1 Setpoint	30	0	100 %	83	1	
Cool Stage 2 Setpoint	75	0	100 %	84	1	
Cool Stage 1 Differential	40	0	100 %	85	1	
Cool Stage 2 Differential	40	0	100 %	86	1	
Winter Seq En Out Temp	18	-30	40 deg C	87	100	

Discharge Temp Scale Min	13	-30	65 deg C	88	100		
Discharge Temp Scale Mid	21	-30	65 deg C	89	100		
Discharge Temp Scale Max	21	-30	65 deg C	90	100		
Control heating based on demand	1	0	1 None	91	1		0=Calculate based on outside temperature / 1=Calculate based on demand
Demand Scale Min	-100	-100	100 %	92	1		
Demand Scale Mid	0	-100	100 %	93	1		
Demand ScaleMax	100	-100	100 %	94	1		
Outside Temp Scale Max	18	-30	40 deg C	95	100		
Outside Temp Scale Min	12	-30	40 deg C	96	100		
Modulating Heat Prop Band	20	-30	40 deg C	97	100		
Modulating Heat Integral	5	0	60 min	98	1		
Slave List	0	0	65535 None	99	1	Slave List	Each reg holds 16 bits - 8 regs - 99 - 106
Enable Absolute Overrides	0	0	1 None	107	1	Visualisation	
Time Zone	7	0	25 None	108	1	Visualisation	
Use Daylight Savings Time	1	0	1 None	109	1	Visualisation	
DST Active Month	3	1	12 None	110	1	Visualisation	1=January ... 12=December
DST Active Week	1	0	4 None	111	1	Visualisation	0= First weekend of month ... 4=5th weekend of month
DST Deactive Month	11	1	12 None	112	1	Visualisation	1=January ... 12=December
DST Deactive Week	0	0	4 None	113	1	Visualisation	0= First weekend of month ... 4=5th weekend of month
Discharge Temp High Limit	30	-40	40 deg C	114	100		
DO1 Display Mode	2	0	2 None	115	1		0=No exhaust, no demand / 1=No exhaust, show demand / 2=Show exhaust, show demand

Locked Address	0	0	127	None	140	1	Device	Saved address (overrides physical dipswitch address). Set to 0 to return to physical address.
Reset	0	0	1	None	150	1	Device	Set to 1 to cause a reset
"Get Slave List" Command	0	0	1	None	151	1	Slave List	
Reprogram	0	0	1	None	152	1	Device	Set to 255 to enter reprogram mode (Warning: Irreversible action - Reserved for ProLon Focus software)
Alarm Override	255	0	255	None	200	1		0=OFF / 1=ON / Else=AUTO
Damper Override	255	0	255	None	201	1		0=CLOSED / 1=OPEN / Else=AUTO
Fan Override	255	0	255	None	202	1		0=OFF / 1=ON / Else=AUTO
VFD Override	255	0	255	volts	203	10		0.0-10.0 = Override Voltage / Else=AUTO
Cooling Override	255	0	255	None	204	1		0=OFF / 1=1 stage ON / 2= 2 stages ON / 3=AUTO
Heat Authorization Override	255	0	255	None	205	1		0=OFF / 1=ON / Else=AUTO
Modulating Heat Override	255	0	255	%	206	1		0-100% = Output Override / Else=AUTO
Schedule Override	255	0	255	None	207	1		0=Unoccupied / 1=Occupied / Else=AUTO
Time - Set Year	0	0	99	None	250	1	Visualisation	
Time - Set Month	0	1	12	None	251	1	Visualisation	
Time - Set Weekday	0	0	6	None	252	1	Visualisation	
Time - Set Day	0	1	31	None	253	1	Visualisation	
Time - Set Hours	0	0	23	None	254	1	Visualisation	
Time - Set Minutes	0	0	59	None	255	1	Visualisation	
Time - Set Seconds	0	0	59	None	256	1	Visualisation	
Password	0	0	65535	None	260	1	Device	Each reg holds 2 chars -- 16 chars max -- 8 regs --regs 211-218
Weekly Schedule	127	0	127	None	300	1	Schedule	Registers 300 to 427. Must access using Multiple Read/Write. [Sunday to Saturday, then Holiday] [period 1-8] [hour, minute]

Calendar	0	0	255	None	428	1	Calendar	Registers 428 to 475. Must access using Multiple Read/Write. [January to December][4 bytes = 32 days]. Each bit set to 1 is considered a holiday.
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