

Modbus Fan Coil Configuration Properties

Modbus Object Type: Holding Registers

Name	Default	Min	Max	Units	Modbus Reg #	Multiplier	Focus Screen	Modbus Notes
Device Type	17	16	16	None	1	1	Device	(Not writable) 17=Fan Coil
Device Soft Ver	7.6	0	655.35	None	2	100	Device	(Not writable)
Device Hard Ver	3.1	0	0	None	3	10	Device	(Not writable) 2.0=C1000 / 2.5=C1050 / 3.1=M2000
Net Baud	3	0	5	None	4	1	COM Port	0=9600 / 1=19200 / 2=38400 / 3=57600 / 4=76800 / 5=115200
Net Parity	0	0	2	None	5	1	COM Port	0=NONE / 1=ODD / 2=EVEN
Net StopBits	0	0	1	None	6	1	COM Port	0=1 Stop Bit / 1=2 Stop Bits
RJ45 Baud	3	0	5	None	7	1	COM Port	0=9600 / 1=19200 / 2=38400 / 3=57600 / 4=76800 / 5=115200
RJ45 Parity	0	0	2	None	8	1	COM Port	0=NONE / 1=ODD / 2=EVEN
RJ45 StopBits	0	0	1	None	9	1	COM Port	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)
Valve Mode	0	0	1	None	18	1	Hardware	0=ON/OFF / 1=MODULATING
Changeover Type	0	0	1	None	19	1	Valve	0=THERMISTOR / 1=CONTACT
Contact Changeover Mode	0	0	1	None	20	1	Valve	0=CLOSED CONTACT INDICATES HOT WATER / 1=CLOSED CONTACT INDICATES COLD WATER
System Type	0	0	1	None	21	1	Hardware	0=TWO PIPE SYSTEM / 1=FOUR PIPE SYSTEM

Min Zone Heat Setpoint	19	-30	40 deg C	38	100	Temperature	
Max Zone Heat Setpoint	25	-30	40 deg C	39	100	Temperature	
Min Zone Cool Setpoint	20	-30	40 deg C	40	100	Temperature	
Max Zone Cool Setpoint	26	-30	40 deg C	41	100	Temperature	
Unoccupied Heat Setpoint Offset	3	-20	20 deg C	42	100	Temperature	
Unoccupied Cool Setpoint Offset	5	-20	20 deg C	43	100	Temperature	
Unoccupied Heat Setpoint Limit	15	-30	40 deg C	44	100	Temperature	
Unoccupied Cool Setpoint Limit	30	-30	40 deg C	45	100	Temperature	
Unoccupied Override Time	120	0	720 min	46	1	Temperature	
Valve Heat Changeover Offset	8	0	20 deg C	47	100	Valve	
Valve Cool Changeover Offset	8	0	20 deg C	48	100	Valve	
Zone Integral Dropoff Rate	3	0	4 None	49	1	Temperature	0=SLOW / 4=FAST
Fan Minimum ON Time	15	0	250 min	50	1	Fan	
Valve Enable Purge	0	0	1 None	51	1	Valve	
Valve Purge Interval	2	1	250 hours	52	1	Valve	
Valve Min Purge Delay	120	0	6000 sec	53	1	Valve	
Valve Max Purge Delay	5	0	250 min	54	1	Valve	
Emergency Heat Delay Time	20	0	250 min	55	1	Reheat	
Valve Demand Heat Setpoint	40	0	100 %	56	1	Valve	
Valve Demand Heat Band	20	0	100 %	57	1	Valve	
Valve Demand Cool Setpoint	40	0	100 %	58	1	Valve	
Valve Demand Cool Band	20	0	100 %	59	1	Valve	
Valve Preheat Band	10	0	50 deg C	60	100	Valve	
Valve Preheat Integral	5	0	120 min	61	1	Valve	

Valve Threshold Setpoint	10	0	100 %	62	1	Valve	
Alarm Name	0	0	1 None	63	1	Valve	0=WATER LEAK / 1=GENERAL
Preheat Enable	0	0	1 None	64	1	Valve	
Reheat Output Selection	1	0	2 None	65	1	Hardware	0=NONE / 1=DIGITAL / 2=ANALOG
Preheat Setpoint	21	-40	40 deg C	66	100	Valve	
Preheat Outside Temp Enable	13	-40	40 deg C	67	100	Valve	
Supply Temp High Limit	40	-40	100 deg C	68	100	Valve	
Outside Temp High Limit	30	-40	40 deg C	69	100	Valve	
Outside Temp Low Limit	-40	-40	40 deg C	70	100	Valve	
Two Pipe Valve Reverse Acting	0	0	1 None	71	1	Hardware	
Two Pipe Valve Analog Output Range	0	0	2 None	72	1	Hardware	0=0-10VDC / 1=2-10VDC / 2=0-5VDC
Four Pipe Heat Valve Reverse Acting	0	0	1 None	73	1	Hardware	
Four Pipe Heat Valve Analog Output Range	0	0	2 None	74	1	Hardware	0=0-10VDC / 1=2-10VDC / 2=0-5VDC
Four Pipe Cool Valve Reverse Acting	0	0	1 None	75	1	Hardware	
Four Pipe Cool Valve Analog Output Range	0	0	2 None	76	1	Hardware	0=0-10VDC / 1=2-10VDC / 2=0-5VDC
Valve Minimum Increment	5	0	50 %	77	1	Valve	
Four Pipe Sensor Display	0	0	3 None	78	1	Hardware	0=NONE / 1=FOUR PIPE HOT WATER TEMP ONLY / 2=FOUR PIPE COLD WATER TEMP ONLY / 3=BOTH
Input Profile	0	0	3 None	79	1	Hardware	0=NONE / 1=ENABLE FAN PROOF ONLY / 2=ENABLE ALARM ONLY / 3=ENABLE BOTH
Alarm Closed Contact Meaning	0	0	1 None	80	1	Hardware	0=CLOSED CONTACT MEANS ALARM ON / 1=CLOSED CONTACT MEANS ALARM OFF

Fan High Speed Heat SP	10	0	100 %		81	1	Fan	
Fan High Speed Cool SP	10	0	100 %		82	1	Fan	
Zone Setpoint Min Scale	15	-30	40 deg C		83	1	Temperature	
Zone Setpoint Max Scale	30	-30	40 deg C		84	100	Temperature	
Group Code 1	0	0	250 None		85	1	Group Codes	
Group Code 2	0	0	250 None		86	1	Group Codes	
Group Code 3	0	0	250 None		87	1	Group Codes	
Group Weight 1	0	0	15 None		88	1	Group Codes	
Group Weight 2	0	0	15 None		89	1	Group Codes	
Group Weight 3	0	0	15 None		90	1	Group Codes	
Global Weight	0	0	60 None		91	1	Group Codes	
Reheat Mode	0	0	1 None		92	1	Hardware	0=DIFFERENTIAL / 1=PROPORTIONAL
Reheat Demand Setpoint	40	0	100 %		93	1	Reheat	
Reheat Demand Band	40	0	100 %		94	1	Reheat	
Reheat Pulsed	0	0	1 None		95	1	Reheat	
Reheat Range	0	0	2 None		96	1	Reheat	0=0-10VDC / 1=2-10VDC / 2=0-5VDC
Reheat Reverse Acting	0	0	1 None		97	1	Reheat	
Reheat Ignore Fan Proof	0	0	1 None		98	1	Reheat	0=REQUIRE FAN PROOF / 1=IGNORE
Emergency Heat Demand	90	0	100 %		99	1	Reheat	
Emergency Heat Supply Limit	25	-40	50 deg C		100	100	Reheat	
Valve Type	0	0	1 None		101	1	Hardware	0=2 WAY VALVE / 1=3 WAY VALVE
Chip Type	0	0	1 None		102	1	Device	0=PIC18F6722 / 1=PIC18F67K40
Schedule Override	255	0	255 None		120	1	Visualisation	0=Unoccupied / 1=Occupied / Else=AUTO
Fan Override	255	0	255 None		121	1	Visualisation	0=OFF / 1=LOW / 2=HIGH / ELSE=AUTO
Reheat Override	255	0	255 None		122	1	Visualisation	0-100=OVERRIDE / ELSE=AUTO
Two Pipe Valve Override	255	0	255 %		123	1	Visualisation	0-100=OVERRIDE / ELSE=AUTO

Four Pipe Heat Valve Override	255	0	255 %		124	1	Visualisation	0-100=OVERRIDE / ELSE=AUTO
Four Pipe Cool Valve Override	255	0	255 %		125	1	Visualisation	0-100=OVERRIDE / ELSE=AUTO
System User Mode	255	0	255 None		132	1	Visualisation	[4LSB=FAN MODE -> 0=OFF / 1=LOW / 2=HIGH / ELSE=AUTO] [NEXT 4LSB=SYSTEM MODE -> 0=OFF / 1=HEAT ONLY / 2=COOL ONLY / ELSE=AUTO]
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		145	1	Device	Set to 1 to cause a reset
Reprogram	0	0	1 None		146	1	Device	Set to 255 to enter reprogram mode (Warning: Irreversible action - Reserved for Prolon Focus software)
Time Zone	7	0	25 None		250	1	Visualisation	
Use Daylight Savings Time	1	0	1 None		251	1	Visualisation	
DST Active Month	3	1	12 None		252	1	Visualisation	1=January ... 12=December
DST Active Week	1	0	4 None		253	1	Visualisation	0= First weekend of month ... 4=5th weekend of month
DST Deactive Month	11	1	12 None		254	1	Visualisation	1=January ... 12=December
DST Deactive Week	0	0	4 None		255	1	Visualisation	0= First weekend of month ... 4=5th weekend of month
Time - Set Year	0	0	99 None		275	1	Visualisation	
Time - Set Month	0	1	12 None		276	1	Visualisation	
Time - Set Weekday	0	0	6 None		277	1	Visualisation	
Time - Set Day	0	1	31 None		278	1	Visualisation	
Time - Set Hours	0	0	23 None		279	1	Visualisation	
Time - Set Minutes	0	0	59 None		280	1	Visualisation	
Time - Set Seconds	0	0	59 None		281	1	Visualisation	
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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Modbus

Fan Coil Network Variable Outputs

Modbus Object Type: Input Registers

Name	Units	Modbus Reg #	Mult	Modbus Notes
Zone Temp	degC	1	100	
Zone Heat SP	degC	2	100	
Zone Cool SP	degC	3	100	
Demand	%	4	1	
Supply Temp	degC	5	100	
Outside Temp	degC	6	100	
Occupancy	None	7	1	
Fan Call	None	8	1	0=OFF / 1=LOW / 2=HIGH
System User Mode	None	9	1	[4LSB=FAN MODE -> 0=OFF / 1=LOW / 2=HIGH / ELSE=AUTO] [4MSB=SYSTEM MODE -> 0=OFF / 1=HEAT ONLY / 2=COOL ONLY / 3=AUTO]
Fan Proof	None	10	1	
Supply Setpoint	degC	11	100	
Two Pipe Temp	degC	12	100	
Two Pipe Changeover Contact State	None	13	1	0=CLOSED / 1=OPEN
Two Pipe Temp Mode	None	14	1	0=INVALID / 1=NEUTRAL / 2=HEAT / 3=COOL
Two Pipe Valve Pos	%	15	1	
Four Pipe Hot Water Temp	deg C	16	100	
Four Pipe Cold Water Temp	degC	17	100	
Four Pipe Hot Water Valve Position	%	18	1	
Four Pipe Cold Water Valve Position	%	19	1	
Reheat Value	%	20	1	
Emergency Heat Status	None	21	1	0=NORMAL / 1=EMERGENCY HEAT ACTIVE
Two Pipe Valve Purge Status	None	22	1	0=NOT PURGING / 1=PURGING
Alarm Status	None	23	1	0=NO ALARM / 1=ALARM ON

Modbus
Fan Coil Network Variable Inputs

Modbus Object Type: Holding Registers

Name	Units	Modbus Reg #	Mult	Modbus Notes
Zone Temp INPUT	degC	130	100	Allows the zone temp to be set by another network device (Write a value greater than 300degC to clear)
Unoccupied Override INPUT	None	131	1	Allows a network device to indicate the Unoccupied Override mode is desired (Write a 1 to start the Unoccupied Override Timer. Cannot be canceled once the timer starts.)
Occupancy INPUT	None	136	1	Allows the occupancy to be set by another network device (0=Unoccupied, 1=Occupied, 2=AUTO)
Outside Temperature INPUT	degC	139	100	Allows the outside temp to be set by another network device (Write a value greater than 300degC to clear)
Two Pipe Temp INPUT	degC	142	100	Allows the zone temp to be set by another network device (Write a value greater than 300degC to clear)