



ComfortVu™ BACnet Thermostat Points List and Technician Settings

Baud rate: 9600, 19200, 38400, 76800 no parity, 8 data bits, 1stop bit

N°	Object	Value	Object Name	AC/FC*	Technician Setting	R/W
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Analog Inputs

1.	Analog Input #3	-20°C... 100°C (-4...212°F)	T1_Ext_TemperatureSensor	AC/FC		R
2.	Analog Input #4	-20°C... 100°C (-4...212°F)	IN1_AIN	AC/FC		R

Analog Outputs

3.	Analog Output #0	0...100%	AO_Cool (cool/heat valve)	FC		R
4.	Analog Output #1	0...100%	AO_Heat	FC		R
5.	Analog Output #2	0...100%	AO_Fan	AC/FC		R
6.	Analog Output #3	0...100%	AO_Humidifier	AC/FC		R
7.	Analog Output #4	0...100%	AO_DeHumidifier	AC/FC		R

Analog Values

8.	Analog Value #0	5...35°C (41...95°F)	SetPoint_SetPointCool	AC/FC		R/W
9.	Analog Value #1	5...35°C (41...95°F)	SetPointHeat	AC/FC		R/W
10.	Analog Value #2	5...35°C (41...95°F)	SetPointEffective	AC/FC		R
11.	Analog Value #3	0...100°C (32...212°F)	ReturnAirSensorEffective	AC/FC		R
12.	Analog Value #4	0 - Fan Only 1 - Cool 2 - Heat 3 - Auto	Mode	AC/FC		R/W
13.	Analog Value #5	0 - Fan Only 1 - Cool 2 - Heat 4 - Off	ModeEffective	AC/FC		R
14.	Analog Value #6	0 - Auto 1 - Low 2 - Medium 3 - High	FanSpeed	AC/FC		R/W
15.	Analog Value #7	1 - Low 2 - Medium 3 - High 4 - Off	FanEffective	AC/FC		R
16.	Analog Value #8	-6...6°C (-9...9°F)	ReturnAirSensorCalibration	AC/FC	P01	R/W
17.	Analog Value #9	5...35°C (41...95°F)	SetPointLimitCool	AC/FC	P02	R/W
18.	Analog Value #10	5...35°C (41...95°F)	SetPointLimitHeat	AC/FC	P03	R/W
19.	Analog Value #11	5...35°C (41...95°F)	EconomySetPointInCool	AC/FC	P25	R/W
20.	Analog Value #12	5...35°C (41...95°F)	EconomySetPointInHeat	AC/FC	P26	R/W
21.	Analog Value #13	0 - Unoccupied 1 - Occupied 2 - Temporary occupied	OccupancyEffectiveHVAC	AC/FC		R
22.	Analog Value #14	0 - Occupancy sensor logic not used; 1 - Occupancy sensor logic controls HVAC	OccupancySensorAuthority	AC/FC	P16	R
23.	Analog Value #15	0 - On/Off logic; 1 - Start/Stop logic; 2 - Change setpoint logic 3 - Unoccupancy Dehumidified logic	OccupancySensorFunction	AC/FC	P15	R/W

* AC/FC = Always present
FC = May or may not be present, depending on DIP switch configuration
AC = May or may not be present, depending on DIP switch configuration



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24.	Analog Value #16	0...900 minutes	OccupancySensorHVACDelayTime	AC/FC	P17	R/W
25.	Analog Value #17	0...999 seconds	TimeSwitchingToOccupiedMode	AC/FC		R/W
26.	Analog Value #18	0 - Not used; 1 - External sensor (T1); 2 - Soft start sensor (T3). 3 - Door switch - Door switch (Hotel configuration of occupancy logic is active) 4 - Key tag	T1_Function	AC/FC	P08	R/W
27.	Analog Value #19	0 - Not used; 1- Auto changeover sensor (T2); 2 - Soft start sensor (T3); 3 - window contact(remote switch On/Off); 4 - window contact (remote switch EC On/EC Off → change SetpointEffective in according to objects AV11, AV12); 5 - Auxiliary Occupancy sensor.	IN1_Function	AC/FC	P09	R/W
28.	Analog Value #20	0...999 seconds	WindowContactDelayTime	AC/FC	P11	R/W
29.	Analog Value #21	0...999 seconds	DoorSwitchDelayTime	AC/FC	P13	R/W
30.	Analog Value #25	0...99°C (32...210°F)	T2_Effective	AC/FC	P83	R
31.	Analog Value #26	0...99°C (32...210°F)	T3_Effective	AC/FC	P84	R
32.	Analog Value #27	0...600 sec	CoolFanOnDelay	FC	P31	R/W
33.	Analog Value #28	0...600 sec	CoolFanOffDelay	AC/FC	P32	R/W
34.	Analog Value #29	0...600 sec	HeatFanOnDelay	FC	P33	R/W
35.	Analog Value #30	0...600 sec	HeatFanOffDelay	AC/FC	P34	R/W
36.	Analog Value #31	8... 15°C (46...59°F)	FreezeProtectionCutInSetpoint	AC/FC	P36	R/W
37.	Analog Value #32	10... 17°C (50...63°F)	FreezeProtectionCutOutSetpoint	AC/FC	P37	R/W
38.	Analog Value #33	0... 999 hours	FilterCounter	AC/FC	P38	R
39.	Analog Value #34	0... 999 hours; 0 - disable filter alarm.	FilterAlarmTimeDelay	AC/FC	P42	R/W
40.	Analog Value #35	0... 5°C (0...10°F)	CoolDifferentialBand	AC/FC	P45	R/W
41.	Analog Value #36	-5... 5°C (-9...9°F)	CoolDifferentialBandOffset	AC/FC	P46	R/W
42.	Analog Value #37	0... 5°C (0...10°F)	HeatDifferentialBand	AC/FC	P47	R/W
43.	Analog Value #38	-5... 5°C (-9...9°F)	HeatDifferentialBandOffset	AC/FC	P48	R/W
44.	Analog Value #39	0...10°C (0...20°F)	ShiftBetweenCoolAndHeat	AC/FC	P49	R/W
45.	Analog Value #40	0...10°C (0...20°F)	ShiftBetweenCoolStages	AC	P50	R/W
46.	Analog Value #41	0...10°C (0...20°F)	ShiftBetweenHeatStages	AC/FC	P51	R/W
47.	Analog Value #42	10000...4000193	BacnetDeviceInstanceNumber	AC/FC		R/W
48.	Analog Value #43	0...600 sec	TimeDelayOnNextCoolStage	AC	P63	R/W
49.	Analog Value #44	0...600 sec	TimeDelayOnNextHeatStage	AC/FC	P27	R/W
50.	Analog Value #45	0...600 sec	TimeDelayOffNextCoolStage	AC	P64	R/W
51.	Analog Value #46	0...600 sec	TimeDelayOffNextHeatStage	AC/FC	P28	R/W
52.	Analog Value #47	0...360 sec	CompressorStandbyDelay	AC		R/W
53.	Analog Value #48	-9.5...8°C (15...46°F)	DeiceInCoolCutInTemperature	AC	P85	R/W
54.	Analog Value #49	2...20°C (36...68°F)	DeiceInCoolCutOutTemperature	AC	P86	R/W
55.	Analog Value #50	120...420 sec	DeiceInHeatTime	AC	P87	R/W
56.	Analog Value #51	600...1800 sec	DeiceInHeatBreakTime	AC	P88	R/W



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57.	Analog Value #52	-9.5...8°C (15...46°F)	DeiceInHeatCutInTemperature	AC	P89	R/W
58.	Analog Value #53	2...20°C (36...68°F)	DeiceInHeatCutOutTemperature	AC	P90	R/W
59.	Analog Value #54	0...99 min	BackLightDimTime	AC/FC	P101	R/W
60.	Analog Value #55	1...90 %	BackLightDimValue	AC/FC	P102	R/W
61.	Analog Value #56	50...100%	BackLightBrightness	AC/FC	P105	R/W
62.	Analog Value #57	14...37°C (57...99°F)	FanSoftStartInHeatCutInTemperature	FC	P43	R/W
63.	Analog Value #58	12...35°C (54...95°F)	FanSoftStartInHeatCutOutTemperature	FC	P44	R/W
64.	Analog Value #59	0.3...2°C (0.6...4°F)	DifferentialOnOffFanSpeeds	FC		R/W
65.	Analog Value #60	0...100 sec	OutputsTresholdTimeCool	FC	P122	R/W
66.	Analog Value #61	0...100 sec	OutputsTresholdTimeHeat	FC	P123	R/W
67.	Analog Value #62	0...100	Kp_PIDCool	FC	P114	R/W
68.	Analog Value #63	0...100	Kp_PIDHeat	FC	P115	R/W
69.	Analog Value #64	0...100	Ki_PIDCool	FC	P116	R/W
70.	Analog Value #65	0...100	Ki_PIDHeat	FC	P117	R/W
71.	Analog Value #66	0...100	Kd_PIDCool	FC	P118	R/W
72.	Analog Value #67	0...100	Kd_PIDHeat	FC	P119	R/W
73.	Analog Value #68	2...10°C	CoolValveProportionalBand	FC	P52	R/W
74.	Analog Value #69	0...100%	CoolProportionalLowLimit	FC	P53	R/W
75.	Analog Value #70	0...100%	CoolProportionalHighLimit	FC	P54	R/W
76.	Analog Value #71	2...10°C	HeatValveProportionalBand	FC	P55	R/W
77.	Analog Value #72	0...100%	HeatProportionalLowLimit	FC	P56	R/W
78.	Analog Value #73	0...100%	HeatProportionalHighLimit	FC	P57	R/W
79.	Analog Value #75	0...30%	ProportionalOnPercent	FC	P60	R/W
80.	Analog Value #76	0...20%	ProportionalOffPercent	FC	P61	R/W
81.	Analog Value #77	2...10°C	CoolVFSProportionalBand	AC/FC	P65	R/W
82.	Analog Value #78	2...10°C	HeatVFSProportionalBand	AC/FC	P66	R/W
83.	Analog Value #79	0...30%	CoolVFSLowSpeedPercent	AC/FC	P67	R/W
84.	Analog Value #80	30...60%	CoolVFSMediumSpeedPercent	AC/FC	P68	R/W
85.	Analog Value #81	60...100%	CoolVFShighSpeedPercent	AC/FC	P69	R/W
86.	Analog Value #82	0...30%	HeatVFSLowSpeedPercent	AC/FC	P70	R/W
87.	Analog Value #83	30...60%	HeatVFSMediumSpeedPercent	AC/FC	P71	R/W
88.	Analog Value #84	60...100%	HeatVFShighSpeedPercent	AC/FC	P72	R/W
89.	Analog Value #86	10...50%	VFSMediumSpeedDiff	AC/FC	P74	R/W
90.	Analog Value #87	10...50%	VFSHighSpeedDiff	AC/FC	P75	R/W
91.	Analog Value #88	0...100%	CoolVFSLowLimit	AC/FC	P76	R/W
92.	Analog Value #89	0...100%	CoolVFShighLimit	AC/FC	P77	R/W
93.	Analog Value #90	0...100%	HeatVFSLowLimit	AC/FC	P78	R/W
94.	Analog Value #91	0...100%	HeatVFShighLimit	AC/FC	P79	R/W
95.	Analog Value #94	0...100%	Humidity_Value	AC/FC		R
96.	Analog Value #95	-9...9%	Humidity_Offset	AC/FC	P195	R/W
97.	Analog Value #98	20...100%	HumiditySetPoint	AC/FC	P197	R/W
98.	Analog Value #99	0...100%	HumidityDeadZone	AC/FC	P196	R/W
99.	Analog Value #101	2...20%	HumidityDifferentialBand	AC/FC	P194	R/W



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N°	Object	Value	Object Name	AC/FC*	Technician Setting	R/W
100.	Analog Value #102	10...30°C (50...86°F)	RoomTemperatureDisableHumidity	AC/FC	P188	R/W
101.	Analog Value #103	0...600 min	DehumidityCycle	AC/FC	P189	R/W
102.	Analog Value #104	0...900 min	DehumidityBreakTime	AC/FC	P190	R/W
103.	Analog Value #105	0 – Thermostat turns off when unoccupied; 1 – Thermostat use economy; 2 – Fan Low keeps running	DoorSwitchOrKeyTag_Function	AC/FC	P18	R/W
104.	Analog Value #106	10...30°C (50...86°F)	DehumiditySetPointInCool	AC/FC	P192	R/W
105.	Analog Value #113	0 - Disable Scheduler, 1 - All days with same schedule; 2 - One schedule for M- F and another for Sat & Sun; 3 - One schedule for M- F and another for Sat , Sun schedule individually; 4 - Schedule each day individually.	DayProgSchdeduler	AC/FC	P107	R/W
106.	Analog Value #114	0 - 2 periods, 1 – 4 periods.	DayPeriods	AC/FC	P108	R/W
107.	Analog Value #115	0 - USA, 1 - Europe	DayPeriodsType	AC/FC	P109	R/W
108.	Analog Value #121	0 ...15 0 – non Lock 1 –Mode 2 –Fan 3 –Mode+Fan 4 – On/Off 5 – On/Off + Mode 6 – On/Off + Fan 7 – On/Off + Fan+Mode 8 - SP 9 – SP+Mode 10 – SP+Fan 11 – SP+Mode+Fan 12 – SP+On/Off 13 – SP+On/Off + Mode 14 – SP+On/Off + Fan 15 – SP+On/Off + Fan+Mode	LockConfiguration	AC/FC	P04 P05 P06 P07	R/W
109.	Analog Value #129	0...99°C (32...210°F)	TEconomizerEffective	AC/FC		R/W
110.	Analog Value #130	0...20 min	MinimumTimeCompressorOn	AC	P160	R/W
111.	Analog Value #131	0...20 min	MinimumTimeCompressorOff	AC	P161	R/W
112.	Analog Value #134	9...27°C (48...80°F)	EconomizerOA_LowLimitTemp	AC/FC	P170	R/W

Binary Inputs

113.	Binary Input #0	1-On,0-Off	S1_1_FanSpeeds	AC/FC		R
114.	Binary Input #1	1-On,0-Off	S1_2_FanSpeeds	AC/FC		R
115.	Binary Input #2	1-On,0-Off	S1_3_Config4pipe	FC		R
116.	Binary Input #2	1-On,0-Off	S1_3_ConfigHCHP	AC		R
117.	Binary Input #3	1-On,0-Off	S1_4_ElectricalHeater	FC		R
118.	Binary Input #3	1-On,0-Off	S1_4_AC	AC		R
119.	Binary Input #7	1-On,0-Off	S1_5_ChilledBeam	FC		R
120.	Binary Input #7	1-On,0-Off	S1_5_Compressor Delay	AC		R
121.	Binary Input #8	1-On,0-Off	S1_6_FloorHeater	FC		R
122.	Binary Input #8	1-On,0-Off	S1_6_ElectricalHeater2Stage	AC		R
123.	Binary Input #9	0-AC,1-FC	S1_7_AC_FC_System	AC/FC		R
124.	Binary Input #10	1-Bacnet ,0-Modbus	S1_8_UseBacnet	AC/FC		R
125.	Binary Input #11	1- Cool Proportional, 0 - relay	S2_1_CoolProportional	FC		R



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N°	Object	Value	Object Name	AC/FC*	Technician Setting	R/W
126.	Binary Input #12	1- Heat Proportional, 0 – relay	S2_2_HeatProportional	FC		R
127.	Binary Input #13	1- Dehumidifier, 0- Reheat	S2_3_Dehumidifier Or Reheat	AC		R
128.	Binary Input #14	1-On,0-Off	S2_4_Cool Only	AC		R

Binary Outputs

129.	Binary Output #0	1-On,0-Off	HeatOnOffValve	FC		R
130.	Binary Output #0	1-On,0-Off	HeatElement 1	AC		R
131.	Binary Output #1	1-On,0-Off	HeatElement	FC		R
132.	Binary Output #1	1-On,0-Off	HeatElement 2	AC		R
133.	Binary Output #2	1-On,0-Off	HeatElement 3	AC		R
134.	Binary Output #3	1-On,0-Off	CoolOnOffValve	FC		R
135.	Binary Output #3	1-On,0-Off	Compressor 1	AC		R
136.	Binary Output #4	1-On,0-Off	Compressor 2	AC		R
137.	Binary Output #5	1-On,0-Off	FanOnOffLow	AC/FC		R
138.	Binary Output #6	1-On,0-Off	FanOnOffMedium	AC/FC		R
139.	Binary Output #7	1-On,0-Off	FanOnOffHigh	AC/FC		R
140.	Binary Output #8	1-On,0-Off	HPOnOff	AC		R
141.	Binary Output #14	1-On,0-Off	Economizer	AC/FC		R

Binary Values

142.	Binary Value #0	1-On,0-Off	OnOff	AC/FC		R/W
143.	Binary Value #1	1-On,0-Off	AutoFan	AC/FC		R/W
144.	Binary Value #2	1-On (°C) ,0-Off (°F)	C_F_Scale	AC/FC		R/W
145.	Binary Value #7	(2 set points), (1 set point)	One_TwoSetpoints	AC/FC	P99	R/W
146.	Binary Value #8	1-Alarm, 0-Normal	FilterAlarm	AC/FC		R
147.	Binary Value #9	1-Reset, 0-Normal	FilterReset	AC/FC	P41	R/W
148.	Binary Value #10	1-Enable, 0-Disable	AutoModeEnable	AC/FC	P14	R/W
149.	Binary Value #11	1-Enable, 0-Disable	BackLightDimEnable	AC/FC	P100	R/W
150.	Binary Value #12	1-Enable, 0-Disable	BeeperEnable	AC/FC	P30	R/W
151.	Binary Value #13	1-Enable, 0-Disable	FreezeProtectionEnable	AC/FC	P35	R/W
152.	Binary Value #14	1-Open, 0-Closed	WindowContact	AC/FC		R/W
153.	Binary Value #15	1-NC (Normally closes), 0-NO (Normally open)	WindowContactPolarity	AC/FC	P10	R/W
154.	Binary Value #16	1-Unoccupied, 0-Occupied	UnoccupancyByPIR	AC/FC		R
155.	Binary Value #17	1-Unoccupied, 0-Occupied	UnoccupancyByAuxOccSensor	AC/FC		R
156.	Binary Value #18	1-NC (Normally closes), 0-NO (Normally open)	AuxOccupancySensorPolarity	AC/FC	P19	R/W
157.	Binary Value #19	1-Open, 0-Closed	DoorSwitchOpen	AC/FC		R
158.	Binary Value #20	1-NC (Normally closes), 0-NO (Normally open)	DoorSwitchPolarity	AC/FC	P12	R/W
159.	Binary Value #25	1-On,0-Off	RestoreDefault	AC/FC	P200	R/W
160.	Binary Value #24	1-On,0-Off	EmergencyHeat (in HC always Off)	AC		R/W
161.	Binary Value #28	1-Unoccupied, 0-Occupied	UnoccupiedByNetwork	AC/FC		R/W
162.	Binary Value #30	1-Disable, 0-Enable	DayProgramEnable	AC/FC		R/W
163.	Binary Value #36	1-On,0-Off	SetLock	AC/FC		R/W
164.	Binary Value #40	1-Enable, 0-Disable	EnableShowHumidityFromSettings	AC/FC	P187	R/W
165.	Binary Value #41	1-Show,0-Hide	SetAlarm	AC/FC		R/W