MEITAVTEC LTD, 10, April, 2025, PIC18F4620
OBJECT LIST FOR CTU2501-CP-HP-ECFAN-SUPER2

BACnet MSTP

BACnet MSTP/485 (rev.19) FW 20185424 BTL certified

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

N°	Object	Value	Object Name	Default
1.	Analog Input #0	7...32°C	T1_RoomTemperature	°C
2.	Analog Input #1	-40...89°C	T2_ChangeOverSensorTemperature	°C
3.	Analog Input #2	-40...89°C	T3_IndoorCoilTemperature	°C
4.	Analog Input #3	0...10000 mV	AI1_HU_INPUT_0_10V	(R)
5.	Analog Input #4	0...10000 mV	AI2_CO2_INPUT_0_10V	(R)
6.	Analog Output #0	0...10000 mV	CoolingOutput	0 mV (W)
7.	Analog Output #1	0...10000 mV	HeatingOutput	0 mV (W)
8.	Analog Output #2	0...10000 mV	DO2_FanOut	(R)
9.	Binary Input #0	0-Off, 1-On	DIPSW21_TestingOccupancySensor	(R)
10.	Binary Input #1	0-Off, 1-On	DIPSW22_CTRL_FAN1	(R)
11.	Binary Input #2	0-Off, 1-On	DI1	(R)
12.	Binary Input #3	0-Off, 1-On	DI2	(R)
13.	Binary Input #4	0-Off, 1-On	DI3	(R)
14.	Binary Input #5	0-Off, 1-On	DI4	(R)
15.	Binary Input #6	0-Off, 1-On	DI5	(R)
16.	Binary Input #7	0-Off, 1-On	DI6	(R)
17.	Binary Input #8	0-Off, 1-On	DI7	(R)
18.	Binary Input #9	0-Off, 1-On	DI8_OccupancySensor	(R)
19.	Binary Output #0	0-Off, 1-On	DO5_HEAT1	(R)
20.	Binary Output #1	0-Off, 1-On	DO4_COOL1	(R)
21.	Binary Value #0	0-Off, 1-On	OnOff	0 (W)
22.	Binary Value #1	0-Fahr, 1-Celsius	Celsius	1-Celsius (W)
23.	Binary Value #2	0-Off, 1-On	AutoFanInCool	0 (W)
24.	Binary Value #3	0-Off, 1-On	AutoFanInHeat	1 (W)
25.	Binary Value #4	0-Off, 1-On	UnOccupancy	(R)
26.	Binary Value #5	0-NOP, 1-Disable	DisableOccupancySensor	0 (W)
27.	Binary Value #6	0-NOP, 1-Restore	RestoreDefault	0 (W)
28.	Binary Value #7	0-Off, 1-Lock	LockRoomModuleOnOff	0 (W)
29.	Binary Value #8	0-Off, 1-Lock	LockRoomModule	0 (W)
30.	Binary Value #9	0-Off, 1-Lock	LockRoomModuleMode	0 (W)
31.	Binary Value #10	0-Off, 1-Lock	LockRoomModuleFanSpeed	0 (W)
32.	Binary Value #11	0-Off, 1-Lock	LockRoomModuleSetPoint	0 (W)

N°	Object	Value	Object Name	Default
33.	Binary Value #12	0-Off, 1-On	DI1_Polarity	0 (W)
34.	Binary Value #13	0-Off, 1-On	DI2_Polarity	0 (W)
35.	Binary Value #14	0-Off, 1-On	DI3_Polarity	0 (W)
36.	Binary Value #15	0-Off, 1-On	DI4_Polarity	0 (W)
37.	Binary Value #16	0-Off, 1-On	DI5_Polarity	0 (W)
38.	Binary Value #17	0-Off, 1-On	DI6_Polarity	0 (W)
39.	Binary Value #18	0-Off, 1-On	DI7_Polarity	0 (W)
40.	Binary Value #19	0-Off, 1-On	DI8_OccupancySensor_Polarity	0 (W)
41.	Binary Value #22	0-Off, 1-On	Silence	0 (W)
42.	Binary Value #23	0-Off, 1-On	RouterDetected	0 (W)
43.	Analog Value #0	0...3	Mode • 0-FanOnly; • 1-Cool; • 2-Heat; • 3-AutoChange	1-Cool (W)
44.	Analog Value #1	0...3	FanSpeed • 0-AutoSpeed; • 1-Low; • 2-Medium; • 3-High	1-Low (W)
45.	Analog Value #2	10...30°C	SetPoint	22°C (W)
46.	Analog Value #3	10...30°C	SetPointLimitCool	10°C (W)
47.	Analog Value #4	10...30°C	SetPointLimitHeat	30°C (W)
48.	Analog Value #5	0...30°C	SetPointEffective	(R)
49.	Analog Value #6	-6...6°C	ReturnAirSensorCalibration	0°C (W)
50.	Analog Value #7	0...5°C	DeadZoneForCool	1°C (W)
51.	Analog Value #8	0...5°C	DeadZoneForHeat	1°C (W)
52.	Analog Value #9	1...300 sec	COOL_TS_SamplePeriod	120 sec (W)
53.	Analog Value #10	1...10°C	COOL_RTR_RegulationTemperatureRange	3°C (W)
54.	Analog Value #11	-32768...32767	COOL_KPC_ProportionalConstant	100 (W)
55.	Analog Value #12	-32768...32767	COOL_KIC_IntegralConstant	10 (W)
56.	Analog Value #13	-32768...32767	COOL_KDC_DerivativeConstant	0 (W)
57.	Analog Value #14	0...100%	COOL_Demand	0% (W)
58.	Analog Value #15	0...100%	COOL_MinimumValue	0% (W)
59.	Analog Value #16	0...100%	COOL_MaximumValue	100% (W)
60.	Analog Value #17	1...300 sec	HEAT_TS_SamplePeriod	120 sec (W)
61.	Analog Value #18	1...10°C	HEAT_RTR_RegulationTemperatureRange	3°C (W)
62.	Analog Value #19	-32768...32767	HEAT_KPC_ProportionalConstant	100 (W)
63.	Analog Value #20	-32768...32767	HEAT_KIC_IntegralConstant	27 (W)
64.	Analog Value #21	-32768...32767	HEAT_KDC_DerivativeConstant	0 (W)
65.	Analog Value #22	0...100%	HEAT_Demand	0% (W)
66.	Analog Value #23	0...100%	HEAT_MinimumValue	0% (W)
67.	Analog Value #24	0...100%	HEAT_MaximumValue	100% (W)

N°	Object	Value	Object Name	Default
68.	Analog Value #25	0...5°C	HEAT_RELAY_RegulationTemperatureRange	1°C (W)
69.	Analog Value #26	0...10°C	HEAT_RELAY_Offset	1°C (W)
70.	Analog Value #27	0...60 sec	HEAT_RELAY_TimeDelayOnNext	1 sec (W)
71.	Analog Value #28	Table, %	FAN_AUTO_SPEED_MinimumValue	(R)
72.	Analog Value #29	Table, %	FAN_AUTO_SPEED_MaximumValue	(R)
73.	Analog Value #30	Table, %	FAN_LowValue	(R)
74.	Analog Value #31	Table, %	FAN_MediumValue	(R)
75.	Analog Value #32	Table, %	FAN_HighValue	(R)
76.	Analog Value #33	Table, %	FAN_EffectiveValue	(R)
77.	Analog Value #34	0...300 sec	COOL_DelayStartingFan	0 sec (W)
78.	Analog Value #35	0...300 sec	COOL_DelayStoppingFan	0 sec (W)
79.	Analog Value #36	0...300 sec	HEAT_DelayStartingFan	0 sec (W)
80.	Analog Value #37	0...300 sec	HEAT_DelayStoppingFan	30 sec (W)
81.	Analog Value #38	0...100%	HUMIDITY_FromPanel	(R)
82.	Analog Value #39	0...100%	HUMIDITY_MinimumValue	0% (W)
83.	Analog Value #40	0...100%	HUMIDITY_MaximumValue	100% (W)
84.	Analog Value #41	0...100%	HUMIDITY_EffectiveValue	(R)
85.	Analog Value #42	0...5000 ppm	CO2_FromPanel	(R)
86.	Analog Value #41	0...5000 ppm	CO2_MinimumValue	0 ppm (W)
87.	Analog Value #44	0...5000 ppm	CO2_MaximumValue	2000 (W)
88.	Analog Value #45	0...5000,ppm	CO2_EffectiveValue	(R)
89.	Analog Value #46	0...3600 sec	TimeSwitchingToUnOccupiedMode	1200 sec (W)
90.	Analog Value #47	0...3600 sec	TimeSwitchingToOccupiedMode	0 sec (W)
91.	Analog Value #48	0...3	UnOccupancyModeSelect • 0-On/Off; • 1-Start/Stop; • 2-LightOnly; • 3-Economy;	0-On/Off (W)
92.	Analog Value #49	0...100%	UnOccupancyTimeAction	50% (W)
93.	Analog Value #50	0...10°C	UnOccupancyChangeSetpoint	0°C (W)
94.	Analog Value #51	0...10 sec	PanelTimeChangeDisplay • 0-Temperature Only; • 10-Humidity Only	0 -Temperature only (W)
95.	Analog Value #52	0...1	DIPSW23_CTRL_FAN2	(R)
96.	Analog Value #53	0… 4095	LocalNetworkNumber	315 (W)
97.	Analog Value #54	0-9600, 1-19200. 2-38400, 3-76800.	BaudRate	1 (W)

BACnet Device Identifier is calculated by formula:

BACnet Device Identifier = LocalNetworkNumber *1000 + MAC Address.

Example 1:

LocalNetworkNumber = 71.2

BACnet Device Identifier = LocalNetworkNumber *1000 + MAC Address = 71200 + MAC Address.

Example 2: LocalNetworkNumber = 315 (Meitav-Tec, default).

BACnet Device Identifier = LocalNetworkNumber *1000 + MAC Address = 315000 + MAC Address.