

MEITAVTEC LTD, 2.05.2023, PIC18F4620

OBJECT LIST FOR CTU4500 HU SUPER PID 23186002

MODBUS RTU Mode, Address Slave 1-247, TimeOut 100 ms, Baud Rate 9600, n, 8, 1

All Registers Signed Integer 16 bits, W-Register Writable

Command: 0x03 = Read Holding Registers

0x06 = Preset Single Register

0x2B = Read Device Identification (Basic = 0x01, Regular = 0x02)

Register number = Address + 1

| Address Dec, [Hex] | Value, unit | Description | Default, access |
|-----------------------|--------------|---------------------------------------------------------------------------|-----------------|
| 0, [0000] | 7...32°C | T1_RoomTemperature | |
| 1, [0001] | -40...89°C | T2_ChangeOverSensorTemperature | |
| 2, [0002] | -40...89°C | T3_IndoorCoilTemperature | |
| 3, [0003] | 0...10000 mV | AI1_HumiditySensor (CTU Humidity Sensor) | |
| 4, [0004] | 0...10000 mV | AI2_AnalogInput | |
| 5, [0005] | 0...10 V | AO1_HeatingOutput | 0 V |
| 6, [0006] | 0...10 V | AO2_CoolingOutput | 0 V |
| 7, [0007] | 0-Off, 1-On | DIPSW21_TestingOccupancySensor Short Time to 20 sec To Goto Unoccupied | |
| 8, [0008] | 0-Off, 1-On | DIPSW22_HumidityFromCtu | |
| 9, [0009] | 0-Off, 1-On | DI1_FlowSwitch | |
| 10, [000A] | 0-Off, 1-On | DI2 | |
| 11, [000B] | 0-Off, 1-On | DI3 | |
| 12, [000C] | 0-Off, 1-On | DI4 | |
| 13, [000D] | 0-Off, 1-On | DI5 | |
| 14, [000E] | 0-Off, 1-On | DI6 | |
| 15, [000F] | 0-Off, 1-On | DI7 | |
| 16, [0010] | 0-Off, 1-On | DI8_OccupancySensor | |
| 17, [0011] | 0-Off, 1-On | DO2_COMPRESSOR1 | 0 |
| 18, [0012] | 0-Off, 1-On | DO4_COMPRESSOR2 | 0 |
| 19, [0013] | 0-Off, 1-On | DO8_FAN_LOW S1.Fan_Low | 0 |
| 20, [0014] | 0-Off, 1-On | DO7_FAN_MEDIUM S1.Fan_Medium | 0 |
| 21, [0015] | 0-Off, 1-On | DO6_FAN_HIGH S1.Fan_High | 0 |
| 22, [0016] | 0-Off, 1-On | DO5_HEAT1 S0.HEAT1 | 0 |
| 23, [0017] | 0-Off, 1-On | DO1_HEAT2 S0.HEAT2 | 0 |
| 24, [0018] | 0-Off, 1-On | DO3_HEAT3 S0.HEAT3 | 0 |
| 25, [0019] | 0-Off, 1-On | OnOff | 0 (W) |
| 26, [001A] | 0-Off, 1-On | AutoFan | 0 (W) |

| Address Dec, [Hex] | Value, unit | Description | Default, access |
|--------------------|--------------------|-------------------------------------------------|-----------------|
| 27, [001B] | 0-Off, 1-On | UnOccupancy | 0 |
| 28, [001C] | 0-Fahr., 1-Celsius | Celsius | 1 |
| 29, [001D] | 0-NOP, 1-Restore | RestoreDefault | 0 (W) |
| 30, [001E] | 0-Off, 1-On | ViewFloatValue | 0 (W) |
| 31, [001F] | 0-Off, 1-On | EnableOverrideInputOutput | 0 (W) |
| 32, [0020] | 0-Off, 1-On | DisableOccupancySensor | 0 (W) |
| 33, [0021] | 0-Off, 1-On | DelayCompressor | 0 |
| 34, [0022] | 0-Off, 1-On | DeiceInCool | 0 |
| 35, [0023] | 0-Off, 1-On | OverHeatInCool | 0 |
| 36, [0024] | 0-Off, 1-Lock | LockRoomModule | 0 (W) |
| 37, [0025] | 0-Off, 1-Lock | LockRoomModuleMode | 0 (W) |
| 38, [0026] | 0-Off, 1-Lock | LockRoomModuleSetPoint | 0 (W) |
| 39, [0027] | 0-Off, 1-Lock | LockRoomModuleFanSpeed | 0 (W) |
| 40, [0028] | 0-Off, 1-Lock | LockRoomModuleOnOff | 0 (W) |
| 41, [0029] | 0-Off, 1-On | DI1_FlowSwitch_Polarity | 0 (W) |
| 42, [002A] | 0-Off, 1-On | DI2_Polarity | 0 (W) |
| 43, [002B] | 0-Off, 1-On | DI3_Polarity | 0 (W) |
| 44, [002C] | 0-Off, 1-On | DI4_Polarity | 0 (W) |
| 45, [002D] | 0-Off, 1-On | DI5_Polarity | 0 (W) |
| 46, [002E] | 0-Off, 1-On | DI6_Polarity | 0 (W) |
| 47, [002F] | 0-Off, 1-On | DI7_Polarity | 0 (W) |
| 48, [0030] | 0-Off, 1-On | DI8_OccupancySensor_Polarity | 0 (W) |
| 49, [0031] | 0...3 | Mode (0-FanOnly; 1-Cool; 2-Heat; 3-AutoChange) | 1 (W) |
| 50, [0032] | 0...3 | FanSpeed (0-AutoSpeed; 1-Low; 2-Medium; 3-High) | 1 (W) |
| 51, [0033] | 10...30°C | SetPoint | 21°C (W) |
| 52, [0034] | 10...30°C | SetPointLimitCool | 10°C (W) |
| 53, [0035] | 10...30°C | SetPointLimitHeat | 30°C (W) |
| 54, [0036] | 0...5°C | DeadZoneForCool | 1°C (W) |
| 55, [0037] | 0...5°C | DeadZoneForHeat | 1°C (W) |
| 56, [0038] | -6...6°C | ReturnAirSensorCalibration | 0°C (W) |
| 57, [0039] | 7...32°C | RoomTemperatureEffective | 21°C |
| 58, [003A] | 0...300 sec | COOL_DelayStartingFan | 0 sec (W) |
| 59, [003B] | 0...300 sec | COOL_DelayStoppingFan | 0 sec (W) |
| 60, [003C] | 0...300 sec | HEAT_DelayStartingFan | 0 sec (W) |
| 61, [003D] | 0...300 sec | HEAT_DelayStoppingFan | 30 sec (W) |
| 62, [003E] | 0...3600 sec | TimeSwitchingToUnOccupiedMode | 1200 sec (W) |
| 63, [003F] | 0, 1 | UnOccupancyModeSelect (0-OnOff; 1-StartStop) | 0 (W) |

| Address Dec, [Hex] | Value, unit | Description | Default, access |
|--------------------|----------------|----------------------------------------------------------------|-----------------|
| 64, [0040] | 0...10 sec | PanelTimeChangeDisplay 0-Temperature Only; 10-Humidity Only | 5 sec (W) |
| 65, [0041] | 0...3600 sec | TimeDetectLostNetwork | 600 sec (W) |
| 66, [0042] | 0...100% | HUMIDITY_SetPoint | 45% (W) |
| 67, [0043] | 1...300 sec | HUMIDITY_TS_SamplePeriod | 1 sec (W) |
| 68, [0044] | 0...100% | HUMIDITY_RTR_RegulationRange | 5% (W) |
| 69, [0045] | -32767...32767 | HUMIDITY_KPC_ProportionalConstant | 10 (W) |
| 70, [0046] | -32767...32767 | HUMIDITY_KIC_IntegralConstant | 10 (W) |
| 71, [0047] | -32767...32767 | HUMIDITY_KDC_DerivativeConstant | 10 (W) |
| 72, [0048] | 0...100% | HUMIDITY_Demand | 0% |
| 73, [0049] | 0...100% | HUMIDITY_MinimumValue | 0% (W) |
| 74, [004A] | 0...100% | HUMIDITY_MaximumValue | 100% (W) |
| 75, [004B] | 0...100% | HUMIDITY_FromPanel | 0% (W) |
| 76, [004C] | 0...100% | HUMIDITY_FromNetwork | 0% (W) |
| 77, [004D] | 0...100% | HUMIDITY_EffectiveValue | 0% |
| 78, [004E] | 1...300 sec | COOL_TS_SamplePeriod | 1 sec (W) |
| 79, [004F] | 1...10°C | COOL_RTR_RegulationTemperatureRange | 3°C (W) |
| 80, [0050] | -32768...32767 | COOL_KPC_ProportionalConstant | 10 (W) |
| 81, [0051] | -32768...32767 | COOL_KIC_IntegralConstant | 10 (W) |
| 82, [0052] | -32768...32767 | COOL_KDC_DerivativeConstant | 50 (W) |
| 83, [0053] | 0...100% | COOL_Demand | 0% |
| 84, [0054] | 0...100% | COOL_MinimumValue | 0% (W) |
| 85, [0055] | 0...100% | COOL_MaximumValue | 100% (W) |
| 86, [0056] | 0...100% | COOL_OR_HUMIDITY_Demand | 0% (W) |
| 87, [0057] | 1...300 sec | HEAT_TS_SamplePeriod | 2 sec (W) |
| 88, [0058] | 1...10°C | HEAT_RTR_RegulationTemperatureRange | 3°C (W) |
| 89, [0059] | -32768...32767 | HEAT_KPC_ProportionalConstant | 10 (W) |
| 90, [005A] | -32768...32767 | HEAT_KIC_IntegralConstant | 10 (W) |
| 91, [005B] | -32768...32767 | HEAT_KDC_DerivativeConstant | 50 (W) |
| 92, [005C] | 0...100% | HEAT_Demand | 0% |
| 93, [005D] | 0...100% | HEAT_MinimumValue | 0% (W) |
| 94, [005E] | 0...100% | HEAT_MaximumValue | 100% (W) |
| 95, [005F] | 0...5°C | HEAT_EL_RegulationTemperatureRange | 1°C (W) |
| 96, [0060] | 0...10°C | HEAT_ELECTRIC_Offset | 1°C (W) |
| 97, [0061] | 0...60 sec | HEAT_ELECTRIC_TimeDelayOnNext | 1 sec (W) |
| 98, [0062] | 0...60 sec | HEAT_ELECTRIC_TimeDelayOffNext | 1 sec (W) |
| 99, [0063] | -40...99°C | DeiceInCoolCutInTemperature | 0°C (W) |

| Address Dec, [Hex] | Value, unit | Description | Default, access |
|-----------------------|--------------|---------------------------------------|-----------------|
| 100, [0064] | -40...99°C | DeiceInCoolCutOutTemperature | 8°C (W) |
| 101, [0065] | -40...99°C | OverHeatInCoolCutInTemperature | 68°C (W) |
| 102, [0066] | -40...99°C | OverHeatInCoolCutOutTemperature | 55°C (W) |
| 103, [0067] | 0...600 sec | CompressorStandByDelay | 240 sec (W) |
| 104, [0068] | 0...600 sec | COOL_TimeDelayOnNextStage | 1 sec (W) |
| 105, [0069] | 0...600 sec | COOL_TimeDelayOffNextStage | 1 sec (W) |
| 106, [006A] | 0...2000 sec | CompressorTimeDefrost | 300 sec (W) |
| 107, [006B] | 0...2000 sec | CompressorTimeBreakDefrost | 1440 sec (W) |
| 108, [006C] | 0...5°C | Compressor_RegulationTemperatureRange | 1°C (W) |
| 109, [006D] | 0...10°C | Compressor_Offset_Stage | 1°C (W) |
| 110, [006E] | 0...100% | HUMIDITY_Compressor_Hysteresis | 10% (W) |
| 111, [006F] | 0...100% | HUMIDITY_Compressor_Offset | 10% (W) |
| 112, [0070] | -20...20% | HUMIDITY_CalibrationOffset | 0% (W) |