WK0600 HOLDING REGISTERS

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
COMMON	**0 to 3**	4	int8	1	Low byte	R	Serial Number - 4 byte value. Read-only
COMMON	**4 to 5**	2	int8	0,1	Low byte	R	Software Version – 2 byte value. Read-only
COMMON	**6**	1	int8	1	Low byte	W/R	ADDRESS. Modbus device address
COMMON	**7**	1	int8	1	Low byte	R	Product Model. This is a read-only register that is used by the microcontroller to determine the product
COMMON	**8**	1	int8	1	Low byte	R	Hardware Revision. This is a read-only register that is used by the microcontroller to determine the hardware rev
COMMON	**9**	1	int8	1	Low byte	R	PIC firmware version
COMMON	**10**	1	int8	1	Low byte	R	PIC version of Humidity module
COMMON	**11**	1	int8	1	Low byte	W/R	PLUG_N_PLAY_ADDRESS, 'plug n play' address, used by the network master to resolve address conflicts.
COMMON	**15**	1	int8	1	Low byte	R	Base address selection.0 = Protocol address,1 = PLC address.
COMMON	**16**	1	int8	1	Low byte	W/R (reboot after write)	Firmware Update Register, used to show the status of firmware updates.Writing 143 sets the config back to out of the box except for Modbus ID and baud rate. Write 159 to fix the current config as the user defaults. Writing 175 resets the unit back to the user defaults.
COMMON	**20**	2	int16	1	Full	R	Hardware Options Register, starting with LSB: Bit0=Clock present or not, Bit1 = Humidity present or not, Bit2 = C02 Sensor, Bit3=CO sensor, Bit4 = Motion Sensor
COMMON	**21to100**						Blank, for future use
MODE	**101**	1	int8	1	Low byte	W/R	COOL_HEAT_MODE, heating or cooling mode. 0=none, 1=cooling, 2=heating.
MODE	**102**	1	int8	1	Low byte	R	MODE_OPERATION, heating or cooling state: 0-7 = coasting, cooling 1,2,3, heating 1,2,3
MODE	**103**	1	int8	1	Low byte	W/R (reboot after write)	SEQUENCE , 0 = internal test sequence, outputs slowly cycle on/off or ramp up & down. 1 = normal, operation according to the output tables.
MODE	**104**	1	int8	1	Low byte	W/R (reboot after write)	DEGC_OR_F, engineering units, Deg C = 0, Deg F = 1
MODE	**105**	1	int8	1	Low byte	W/R	FAN MODE, number of fan speeds. Single speed = 1 up to three speed fan = 3
MODE	**106**	1	int8	1	Low byte	W/R	POWER UP_MODE, mode of operation on power up. 0 = power off, 1 = power up in on mode, 2 = last value (default), 3 = auto mode.
MODE	**107**	1	int8	1	Low byte	W/R	AUTO_ONLY , enables or disables manual mode. 0 = Manual Fan Modes 1-x Allowed (depending on R122 value, 1 = Auto Mode Only, 2 = DDC mode,the user can not change setpoint and fan speed from keypad.
MODE	**108**	1	int8	1	Low byte	W/R (reboot after write)	Write 1 to register 108 - resets the unit to latest factory defaults (same as writing 143 to register 16)
MODE	**109**	1	int8	1	Low byte	W/R	Info Byte, this register contains info about the state of the thermostat.
	109_0						Bit 0 is read/write and shows the occupancy mode. Bit 0 = 0 means unoccupied. Bit 0 = 1 means occupied.
	109_1						Bit 1 is read only and shows the reset state. Bit 1 = 0 means hardware restart. Bit 1 = 1 means software restart.
	109_2						Bit 2 is read/write and is the reset prevention bit. Bit 2 = 0 means the thermostat will automatically reset after certain registers are changed. Bit 2 = 1 prevents this reset. Changing this bit from 1 to 0 will trigger a reset.
	109_3						Bit 3 is the state of the digital input. Bit 3 = 1 means logic high. Bit 3 = 0 means logic low.
	109_4						Bit 4: Reserved, used for some non standard occupancy sensor logic
	109_5						Bit5 0=no delay on modbus reply, 1= 10ms delay before send for slower PLC's to switch from TX to RX

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
MODE	**109_7**						Bit7, RS485/wireless communications mode: The normal communications method is a bus topology using RS485 which uses a 'transmit enable' or TX_EN line on the RS485 hardware whenever transmission from the thermostat to the bus takes place. For wireless devices this is typically taken care of by the radio module itself so it is not needed. Default = 0, When bit7 is 0, the RS485 chip, TX_EN line is used for normal RS485 bus communications. When bit7 is 1, the TX_EN line is not used, allowing the radio module to communicate one-to-one with the thermostat
MODE	**110**	1	int8	1	Low byte	W/R (reboot after write)	Bau - Baudrate, 0=9600, 1=19.2kbaud
MODE	**111**	1	int8	1	Low byte	W/R	Unoccupied Override Timer, Ort. 0=disabled, >0=number of minutes manual override is allowed
MODE	**112**	1	int8	1	Low byte	W/R	OVERRIDE_TIMER_DOWN_COUNT - Number of minutes remaining on the timer when unoccupied override timer is in effect.
MODE	**113**	1	int8	1	Low byte	W/R (reboot after write)	Heating cooling mode configuration, HC, 0=PID, 1=Keypad, 2=Digital_in1(not used), 3=Digital_in1,(not used) 4=Analog_in1, 5=Analog_in2
MODE	**114**	2	int16	1	Full	W/R	Period timer ON time.
MODE	**115**	2	int16	1	Full	W/R	Period timer OFF time.
MODE	**116**	1	int8	1	Low byte	W/R (reboot after write)	Period timer units. 0, second; 1, minute; 2, hour.
MODE	**117**	1	int8	1	Low byte	W/R	Dead master. The thermostat will go to occupied mode automatically if there is no serial communications for a user defined period of time, for example if the register is set to 10 the thermostat will go to ocupied mode if there are no communications for a period of 10 minutes. Set the register to 0 to disable the feature
MODE	**118**	1	int8	1	Low byte	R	Time format. 0 = 12hours,1 = 24hours, in WK0600, it always 24h
MODE	**119**	1	int8	1	Low byte	W/R	free cool cobfigure byte
INPUT	**121**	2	int16	0.1(℃)	Full	W/R	TEMPERATURE reading in DegC or F from the sensor used in the control loop PI1 which is configured in register 111. This can be the internal sensor, external, or an average of the two. Writing a temperature value to this register will calibrate the currently selected sensor by adjusting the associated calibration register. If average is selected then you cannot write to this register.
INPUT	**122**	1	int8	1	Low byte	W/R	ANALOG INPUT1 RANGE. 0 = raw data, 1 = thermistor, 2 = %, 3 = ON/OFF, 4 = N/A, 5 = OFF/ON
INPUT	**123**	1	int8	1	Low byte	W/R	ANALOG INPUT2 RANGE. 0 = raw data, 1 = thermistor, 2 = %, 3 = ON/OFF, 4 = N/A, 5 = OFF/ON
INPUT	**124**	1	int8	1	Low byte	W/R	ANALOG INPUT3 RANGE. 0 = raw data, 1 = thermistor, 2 = %, 3 = ON/OFF, 4 = N/A, 5 = OFF/ON
INPUT	**125**	1	int8	1	Low byte	W/R	ANALOG INPUT4 RANGE. 0 = raw data, 1 = thermistor, 2 = %, 3 = ON/OFF, 4 = N/A, 5 = OFF/ON
INPUT	**126**	1	int8	1	Low byte	W/R	ANALOG INPUT5 RANGE. 0 = raw data, 1 = thermistor, 2 = %, 3 = ON/OFF, 4 = N/A, 5 = OFF/ON
INPUT	**127**	1	int8	1	Low byte	W/R	ANALOG INPUT6 RANGE. 0 = raw data, 1 = thermistor, 2 = %, 3 = ON/OFF, 4 = N/A, 5 = OFF/ON
INPUT	**128**	1	int8	1	Low byte	W/R	ANALOG INPUT7 RANGE. 0 = raw data, 1 = thermistor, 2 = %, 3 = ON/OFF, 4 = N/A, 5 = OFF/ON
INPUT	**129**	1	int8	1	Low byte	W/R	ANALOG INPUT8 RANGE. 0 = raw data, 1 = thermistor, 2 = %, 3 = ON/OFF, 4 = N/A, 5 = OFF/ON
INPUT	**130**	2	int16	1.1(℃)	Full	W/R	Internal Thermistor Sensor - Shows the filtered, calibrated value of the internal thermistor sensor
INPUT	**131**	2	int16	depend on input range	Full	W/R	Analog input1 value
INPUT	**132**	2	int16	depend on input range	Full	W/R	Analog input2 value
INPUT	**133**	2	int16	depend on input range	Full	W/R	Analog input3 value

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
INPUT	**134**	2	int16	depend on input range	Full	W/R	Analog input4 value
INPUT	**135**	2	int16	depend on input range	Full	W/R	Analog input5 value
INPUT	**136**	2	int16	depend on input range	Full	W/R	Analog input6 value
INPUT	**137**	2	int16	depend on input range	Full	W/R	Analog input7 value
INPUT	**138**	2	int16	depend on input range	Full	W/R	Analog input8 value
INPUT	**139**	2	int16	1(ppm)	Full	W/R	co2 ppm(optional)
INPUT	**140**	2	int16	0.1(%)	Full	W/R	humidity % (optional)
INPUT	**141**	2	int16	1	Full	W/R	Input auto/ manual enable.
INPUT	**142**	1	int8	1	Low byte	W/R	Temperature sensor filter, FIL, weighted average of stored value to new raw value
INPUT	**153**	2	int16	0.1(℃)	Full	W/R	CALIBRATION, this is the calibration factor for the internal sensor, normally maintained by the thermostat.
INPUT	**154**	2	int16	1.1(℃)	Full	W/R	Calibration for the internal thermistor - internally managed offset for the internal temp sensor value
INPUT	**155**	2	int16	depend on input range	Full	W/R	Calibration for analog input1
INPUT	**156**	2	int16	depend on input range	Full	W/R	Calibration for analog input2
INPUT	**157**	2	int16	depend on input range	Full	W/R	Calibration for analog input3
INPUT	**158**	2	int16	depend on input range	Full	W/R	Calibration for analog input4
INPUT	**159**	2	int16	depend on input range	Full	W/R	Calibration for analog input5
INPUT	**160**	2	int16	depend on input range	Full	W/R	Calibration for analog input6
INPUT	**161**	2	int16	depend on input range	Full	W/R	Calibration for analog input7
INPUT	**162**	2	int16	depend on input range	Full	W/R	Calibration for analog input8
INPUT	**167**	1	int8	1	Low byte	W/R	Analog input1 function selection. 0, normal; 1, freeze protect sensor input; 2, occupancy sensor input; 3, sweep off mode; 4, clock mode; 5, change over mode.
INPUT	**168**	1	int8	1	Low byte	W/R	Analog input2 function selection. 0, normal; 1, freeze protect sensor input; 2, occupancy sensor input; 3, sweep off mode; 4, clock mode; 5, change over mode.
INPUT	**175**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 0.0V value Sensor value that corresponds to 0.0V
INPUT	**176**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 0.5V value Sensor value that corresponds to 0.5V
INPUT	**177**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 1.0V value Sensor value that corresponds to 1.0V
INPUT	**178**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 1.5V value Sensor value that corresponds to 1.5V

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
INPUT	**179**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 2.0V value Sensor value that corresponds to 2.0V
INPUT	**180**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 2.5V value Sensor value that corresponds to 2.5V
INPUT	**181**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 3.0V value Sensor value that corresponds to 3.0V
INPUT	**182**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 3.5V value Sensor value that corresponds to 3.5V
INPUT	**183**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 4.0V value Sensor value that corresponds to 4.0V
INPUT	**184**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 4.5V value Sensor value that corresponds to 4.5V
INPUT	**185**	2	int16	depend on input range	Full	W/R	Lookup Table 1 - 5.0V value Sensor value that corresponds to 5.0V
INPUT	**186**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 0.0V value Sensor value that corresponds to 0.0V
INPUT	**187**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 0.5V value Sensor value that corresponds to 0.5V
INPUT	**188**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 1.0V value Sensor value that corresponds to 1.0V
INPUT	**189**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 1.5V value Sensor value that corresponds to 1.5V
INPUT	**190**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 2.0V value Sensor value that corresponds to 2.0V
INPUT	**191**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 2.5V value Sensor value that corresponds to 2.5V
INPUT	**192**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 3.0V value Sensor value that corresponds to 3.0V
INPUT	**193**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 3.5V value Sensor value that corresponds to 3.5V
INPUT	**194**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 4.0V value Sensor value that corresponds to 4.0V
INPUT	**195**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 4.5V value Sensor value that corresponds to 4.5V
INPUT	**196**	2	int16	depend on input range	Full	W/R	Lookup Table 2 - 5.0V value Sensor value that corresponds to 5.0V
INPUT	**197**	1	int8	1	Low byte	W/R	Humidity Control Register, 0 = defautl, write 1 here to set to fac calib,
INPUT	**198**	1	int8	1	Low byte	W/R	Current humidity sensor value
INPUT	**199**	1	int8	1	Low byte	W/R	Update calibration data, when set to 1, thermostat will update the calibration data to PIC
INPUT	**200**	1	int8	1	Low byte	W/R	Calibration points number, value can be single or two point calibration for the thermostat
INPUT	**201**	1	int8	1	Low byte	W/R	Decide which calibration table will be used. 0 = default table 1 = customer table
OUTPUT	**202**	1	int8	1	Low byte	W/R	Determine the output1 mode. 0, ON/OFF mode; 1, floating valve for cooling;
OUTPUT	**203**	1	int8	1	Low byte	W/R	Determine the output2 mode. 0, ON/OFF mode; 1, floating valve for cooling;

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
OUTPUT	**204**	1	int8	1	Low byte	W/R	Determine the output3 mode.
OUTPUT	**205**	1	int8	1	Low byte	W/R	Determine the output4 mode. 0, ON/OFF mode; 1, floating valve for cooling; 2, lighting control; 3, PWM
OUTPUT	**206**	1	int8	1	Low byte	W/R	Determine the output5 mode. 0, ON/OFF mode; 1, floating valve for heating; 2, lighting control; 3, PWM
OUTPUT	**207**	1	int8	1	Low byte	W/R	Analog Output1 range - 0=On/Off, 1=0-10V, 2=0-5V, 3=2-10V, 4= 10-0V
OUTPUT	**208**	1	int8	1	Low byte	W/R	Analog Output2 range - 0=On/Off, 1=0-10V, 2=0-5V, 3=2-10V, 4= 10-0V
OUTPUT	**209**	1	int8	1	Low byte	W/R	Output1 tot 5, bit 0 thru 4 = relay 1 thru 5.
OUTPUT	**210**	2	int16	1	Full	W/R (write only when manual output 6 enable)	Output6 ,Analog output1, a number from 0-1000 representing 0% (closed) to 100% (open). When Range = On/Off mode, On=1000, Off=0.
OUTPUT	**211**	2	int16	1	Full	W/R (write only when manual output7 enable)	Output7 Analog output2, a number from 0-1000 representing 0% (closed) to 100% (open). When Range = On/Off mode, On=1000, Off=0.
OUTPUT	**212**	1	int8	1	Low byte	W/R	DAC_OFFSET , Calibration data for the 0-10VDC signal, internal variable maintained by thermostat
OUTPUT	**213**	1	int8	1	Low byte	W/R	Output1 Relay1_delay_OFF_TO_ON – delay time for output1 going from OFF to ON (sec)
OUTPUT	**214**	1	int8	1	Low byte	W/R	Output2 Relay2_delay_OFF_TO_ON – delay time for output2 going from OFF to ON (sec)
OUTPUT	**215**	1	int8	1	Low byte	W/R	Output3 Relay3_delay_OFF_TO_ON – delay time for output3 going from OFF to ON (sec)
OUTPUT	**216**	1	int8	1	Low byte	W/R	Output4 Relay4_delay_OFF_TO_ON – delay time for output4 going from OFF to ON (sec)
OUTPUT	**217**	1	int8	1	Low byte	W/R	Output5 Relay5_delay_OFF_TO_ON – delay time for output5 going from OFF to ON (sec)
OUTPUT	**218**	1	int8	1	Low byte	W/R	(future)Output6 delay_OFF_TO_ON – delay time for output4 going from OFF to ON (sec)
OUTPUT	**219**	1	int8	1	Low byte	W/R	(future)Output7 delay_OFF_TO_ON – delay time for output5 going from OFF to ON (sec)
OUTPUT	**220**	1	int8	1	Low byte	R	output 1 current time left from OFF to ON
OUTPUT	**221**	1	int8	1	Low byte	R	output 2 current time left from OFF to ON
OUTPUT	**222**	1	int8	1	Low byte	R	output 3 current time left from OFF to ON
OUTPUT	**223**	1	int8	1	Low byte	R	output 4 current time left from OFF to ON
OUTPUT	**224**	1	int8	1	Low byte	R	output 5 current time left from OFF to ON
OUTPUT	**225**	1	int8	1	Low byte	R	(reserved)output 6 current time left from OFF to ON
OUTPUT	**226**	1	int8	1	Low byte	R	(reserved)output 7 current time left from OFF to ON
OUTPUT	**227**	1	int8	1	Low byte	W/R	Output1 Relay1_delay_ON_TO_OFF – delay time for output1 going from ON to OFF (sec)
OUTPUT	**228**	1	int8	1	Low byte	W/R	Output2 Relay2_delay_ON_TO_OFF – delay time for output2 going from ON to OFF (sec)
OUTPUT	**229**	1	int8	1	Low byte	W/R	Output3 Relay3_delay_ON_TO_OFF – delay time for output3 going from ON to OFF (sec)
OUTPUT	**230**	1	int8	1	Low byte	W/R	Output4 Relay4_delay_ON_TO_OFF – delay time for output4 going from ON to OFF(sec)
OUTPUT	**231**	1	int8	1	Low byte	W/R	Output5 Relay5_delay_ON_TO_OFF – delay time for output5 going from ON to OFF(sec)
OUTPUT	**232**	1	int8	1	Low byte	W/R	(future)Output6_delay_ON_TO_OFF – delay time for output4 going from ON to OFF(sec)
OUTPUT	**233**	1	int8	1	Low byte	W/R	(future)Output7_delay_ON_TO_OFF – delay time for output5 going from ON to OFF (sec)
OUTPUT	**234**	1	int8	1	Low byte	R	output 1 current time left from ON to OFF
OUTPUT	**235**	1	int8	1	Low byte	R	output 2 current time left from ON to OFF
OUTPUT	**236**	1	int8	1	Low byte	R	output 3 current time left from ON to OFF
OUTPUT	**237**	1	int8	1	Low byte	R	output 4 current time left from ON to OFF
OUTPUT	**238**	1	int8	1	Low byte	R	output 5 current time left from ON to OFF
OUTPUT	**239**	1	int8	1	Low byte	R	(reserved)output 6 current time left from ON to OFF
OUTPUT	**240**	1	int8	1	Low byte	R	(reserved)output 7 current time left from ON to OFF

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
OUTPUT	**241**	1	int8	1	Low byte	W/R	MODBUS_CYCLING_DELAY – delay time (in minutes) for switching out of heating or cooling and then back in.
OUTPUT	**242**	1	int8	1	Low byte	W/R	MODBUS_CHANGOVER_DELAY – delay time (in minutes) for switching from cooling into heating or vice versa.
OUTPUT	**243**	1	int8	1	Low byte	W/R	Valve travel time. The time of the valve travel from one end to another end. The units is second.
OUTPUT	**244**	1	int8	1(%)	Low byte	R	Valve percent. Show the valve opened how much percent. READ ONLY
OUTPUT	**245**	1	int8	1	Low byte	W/R	Interlock for output1
OUTPUT	**246**	1	int8	1	Low byte	W/R	Interlock for output2
OUTPUT	**247**	1	int8	1	Low byte	W/R	Interlock for output3
OUTPUT	**248**	1	int8	1	Low byte	W/R	Interlock for output4
OUTPUT	**249**	1	int8	1	Low byte	W/R	Interlock for output5
OUTPUT	**250**	1	int8	1	Low byte	W/R	Interlock for output6
OUTPUT	**251**	1	int8	1	Low byte	W/R	Interlock for output7
OUTPUT	**252**	1	int8	1	Low byte	W/R	Delay to open. The heating valve will open if the ambient temp less than the Freeze temp setpoint last the time this register set. The units is second.
OUTPUT	**253**	1	int8	1	Low byte	W/R	Delay to close. The duration the heating valve open. The units is minute.
OUTPUT	**254**	1	int8	1	Low byte	W/R	Output auto/manual enable. Bit 0 to 4 correspond to output1 to output5, bit 5 correspond to output6, bit 6 correspond to output7. 0, auto mode; 1, manual mode.
OUTPUT	**255**	1	int8	1	Low byte	W/R	Relay1 manual output value
OUTPUT	**256**	1	int8	1	Low byte	W/R	Relay2 manual output value
OUTPUT	**257**	1	int8	1	Low byte	W/R	Relay3 manual output value
OUTPUT	**258**	1	int8	1	Low byte	W/R	Relay4 manual output value
OUTPUT	**259**	1	int8	1	Low byte	W/R	Relay5 manual output value
OUTPUT	**262**	1	int8	1	Low byte	W/R	DEADMASTER_MODE = 0, the default, outputs will not change when deadmaster is triggered DEADMASTER_MODE = 1, the output will be trigger to “AUTO” mode if they were previously in manual DEADMASTER_MODE = 2, the outputs will go to manual on or off as defined in the following registers.
OUTPUT	**263**	1	int8	1	Low byte	W/R	Define output states when DEADMASTER_MODE = 2 (active) Bit0 is for relay 1, bit1 for relay 2 and so on up to output 5
OUTPUT	**264**	2	int16	1	Full	W/R	Analog Output1 goes to this value when DEADMASTER_MODE = 2 (active), 0-1000
OUTPUT	**265**	2	int16	1	Full	W/R	Analog Output2 goes to this value when DEADMASTER_MODE = 2 (active), 0-1000
OUTPUT	**266**	1	int8	1	Low byte	W/R	Output1 Function setting: 0=normal, default. 1 = rotation (old disabled feature) 2 = lighting control, one keypad button can be assigned to toggle a relay on & off
OUTPUT	**267**	1	int8	1	Low byte	W/R	Output2 function setting (see above)
OUTPUT	**268**	1	int8	1	Low byte	W/R	Output3 function setting (see above)
OUTPUT	**269**	1	int8	1	Low byte	W/R	Output4 function setting (see above)
OUTPUT	**270**	1	int8	1	Low byte	W/R	Output5 function setting (see above)
OUTPUT	**271**	1	int8	1	Low byte	W/R	(future)Output6 function setting (see above)
OUTPUT	**272**	1	int8	1	Low byte	W/R	(future)Output7 function setting (see above)
OUTTABLE	**273**	1	int8	1	Low byte	W/R	FAN_SPEED, current operating fan speed Relay Output Tables (bit0 = relay1, bit1 = relay2, bit2 = relay3, bit3 = relay4, bit4 = relay5) Fan0 table is for the off state. Fan1, Fan2, and Fan3 are for the manual states. Fan4 is for the Auto state. These states are controlled by the user. The mode of operation (coasting, cooling, heating) is determined by the PID parameter

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description	
							determined by the PID parameter.	
OUTTABLE	**274**	1	int8	1	Low byte	W/R	Output 1 PID Interlock	0 = PID1, can assign each output to either PID1 or 2, the max or the min of the two PIDS
OUTTABLE	**275**	1	int8	1	Low byte	W/R	Output 2 PID Interlock	1 = PID2
OUTTABLE	**276**	1	int8	1	Low byte	W/R	Output 3 PID Interlock	2 = Maximum of PID1 and PID2
OUTTABLE	**277**	1	int8	1	Low byte	W/R	Output 4 PID Interlock	3 = Minimum of PID1 and PID2
OUTTABLE	**278**	1	int8	1	Low byte	W/R	Output 5 PID Interlock	
OUTTABLE	**279**	1	int8	1	Low byte	W/R	Output 6 PID Interlock	
OUTTABLE	**280**	1	int8	1	Low byte	W/R	Output 7 PID Interlock	
OUTTABLE	**281**	1	int8	1	Low byte	W/R	PID2 Output table- Coasting	
OUTTABLE	**282**	1	int8	1	Low byte	W/R	PID2 Output table- Cooling1	
OUTTABLE	**283**	1	int8	1	Low byte	W/R	PID2 Output table- Cooling2	
OUTTABLE	**284**	1	int8	1	Low byte	W/R	PID2 Output table- Cooling3	
OUTTABLE	**285**	1	int8	1	Low byte	W/R	PID2 Output - Heating1	
OUTTABLE	**286**	1	int8	1	Low byte	W/R	PID2 Output - Heating	
OUTTABLE	**287**	1	int8	1	Low byte	W/R	PID2 Output - Heating3	
OUTTABLE	**288**	1	int8	1	Low byte	W/R	FAN0_OPERATION_TABLE_COAST	
OUTTABLE	**289**	1	int8	1	Low byte	W/R	FAN0_OPERATION_TABLE_COOL1	
OUTTABLE	**290**	1	int8	1	Low byte	W/R	FAN0_OPERATION_TABLE_COOL2	
OUTTABLE	**291**	1	int8	1	Low byte	W/R	FAN0_OPERATION_TABLE_COOL3	
OUTTABLE	**292**	1	int8	1	Low byte	W/R	FAN0_OPERATION_TABLE_HEAT1	
OUTTABLE	**293**	1	int8	1	Low byte	W/R	FAN0_OPERATION_TABLE_HEAT2	
OUTTABLE	**294**	1	int8	1	Low byte	W/R	FAN0_OPERATION_TABLE_HEAT3	
OUTTABLE	**295**	1	int8	1	Low byte	W/R	FAN1_OPERATION_TABLE_COAST	
OUTTABLE	**296**	1	int8	1	Low byte	W/R	FAN1_OPERATION_TABLE_COOL1	
OUTTABLE	**297**	1	int8	1	Low byte	W/R	FAN1_OPERATION_TABLE_COOL2	
OUTTABLE	**298**	1	int8	1	Low byte	W/R	FAN1_OPERATION_TABLE_COOL3	
OUTTABLE	**299**	1	int8	1	Low byte	W/R	FAN1_OPERATION_TABLE_HEAT1	
OUTTABLE	**300**	1	int8	1	Low byte	W/R	FAN1_OPERATION_TABLE_HEAT2	
OUTTABLE	**301**	1	int8	1	Low byte	W/R	FAN1_OPERATION_TABLE_HEAT3	
OUTTABLE	**302**	1	int8	1	Low byte	W/R	FAN2_OPERATION_TABLE_COAST	
OUTTABLE	**303**	1	int8	1	Low byte	W/R	FAN2_OPERATION_TABLE_COOL1	
OUTTABLE	**304**	1	int8	1	Low byte	W/R	FAN2_OPERATION_TABLE_COOL2	
OUTTABLE	**305**	1	int8	1	Low byte	W/R	FAN2_OPERATION_TABLE_COOL3	
OUTTABLE	**306**	1	int8	1	Low byte	W/R	FAN2_OPERATION_TABLE_HEAT1	
OUTTABLE	**307**	1	int8	1	Low byte	W/R	FAN2_OPERATION_TABLE_HEAT2	
OUTTABLE	**308**	1	int8	1	Low byte	W/R	FAN2_OPERATION_TABLE_HEAT3	
OUTTABLE	**309**	1	int8	1	Low byte	W/R	FAN3_OPERATION_TABLE_COAST	
OUTTABLE	**310**	1	int8	1	Low byte	W/R	FAN3_OPERATION_TABLE_COOL1	
OUTTABLE	**311**	1	int8	1	Low byte	W/R	FAN3_OPERATION_TABLE_COOL2	

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
OUTTABLE	**312**	1	int8	1	Low byte	W/R	FAN3_OPERATION_TABLE_COOL3
OUTTABLE	**313**	1	int8	1	Low byte	W/R	FAN3_OPERATION_TABLE_HEAT1
OUTTABLE	**314**	1	int8	1	Low byte	W/R	FAN3_OPERATION_TABLE_HEAT2
OUTTABLE	**315**	1	int8	1	Low byte	W/R	FAN3_OPERATION_TABLE_HEAT3
OUTTABLE	**316**	1	int8	1	Low byte	W/R	FANAUT_OPERATION_TABLE_COAST
OUTTABLE	**317**	1	int8	1	Low byte	W/R	FANAUT_OPERATION_TABLE_COOL1
OUTTABLE	**318**	1	int8	1	Low byte	W/R	FANAUT_OPERATION_TABLE_COOL2
OUTTABLE	**319**	1	int8	1	Low byte	W/R	FANAUT_OPERATION_TABLE_COOL3
OUTTABLE	**320**	1	int8	1	Low byte	W/R	FANAUT_OPERATION_TABLE_HEAT1
OUTTABLE	**321**	1	int8	1	Low byte	W/R	FANAUT_OPERATION_TABLE_HEAT2
OUTTABLE	**322**	1	int8	1	Low byte	W/R	FANAUT_OPERATION_TABLE_HEAT3
OUTTABLE	**323**	1	int8	1	Low byte	W/R	VALVE_OPER_TABLE_COAST, Analog output state for each of the 7 modes of operation
OUTTABLE	**324**	1	int8	1	Low byte	W/R	VALVE_OPER_TABLE_COOLING1
OUTTABLE	**325**	1	int8	1	Low byte	W/R	VALVE_OPER_TABLE_COOLING2
OUTTABLE	**326**	1	int8	1	Low byte	W/R	VALVE_OPER_TABLE_COOLING3
OUTTABLE	**327**	1	int8	1	Low byte	W/R	VALVE_OPER_TABLE_HEATING1
OUTTABLE	**328**	1	int8	1	Low byte	W/R	VALVE_OPER_TABLE_HEATING2
OUTTABLE	**329**	1	int8	1	Low byte	W/R	VALVE_OPER_TABLE_HEATING3
OUTTABLE	**330**	1	int8	1	Low byte	W/R	Number of Heating Stages (Max heat+cool = 6)
OUTTABLE	**331**	1	int8	1	Low byte	W/R	Number of Cooling Stages (Max heat + Cool = 6)
OUTTABLE	**332**	1	int8	1	Low byte	W/R	Number of Heating Stages in Original Table - (Maximum # of total heating and cooling states is 6)
OUTTABLE	**333**	1	int8	1	Low byte	W/R	Number of Cooling Stages in Original Table - (Maximum # of total heating and cooling states is 6)
OUTTABLE	**334**	1	int8	1	Low byte	W/R	analog output in OFF table, coating mode,bit1 means AO1 : 1 = on, 0 = off bit3 means AO2 : 1 = on, 0 = off
OUTTABLE	**335**	1	int8	1	Low byte	W/R	analog output in OFF table, cooling1 mode,bit1 means AO1 : 1 = on, 0 = off bit3 means AO2 : 1 = on, 0 = off
OUTTABLE	**336**	1	int8	1	Low byte	W/R	analog output in OFF table, cooling2 mode,bit1 means AO1 : 1 = on, 0 = off bit3 means AO2 : 1 = on, 0 = off
OUTTABLE	**337**	1	int8	1	Low byte	W/R	analog output in OFF table, cooling3 mode,bit1 means AO1 : 1 = on, 0 = off bit3 means AO2 : 1 = on, 0 = off
OUTTABLE	**338**	1	int8	1	Low byte	W/R	analog output in OFF table, heating1 mode,bit1 means AO1 : 1 = on, 0 = off bit3 means AO2 : 1 = on, 0 = off
OUTTABLE	**339**	1	int8	1	Low byte	W/R	analog output in OFF table, heating2 mode,bit1 means AO1 : 1 = on, 0 = off bit3 means AO2 : 1 = on, 0 = off
OUTTABLE	**340**	1	int8	1	Low byte	W/R	analog output in OFF table, heating3 mode,bit1 means AO1 : 1 = on, 0 = off bit3 means AO2 : 1 = on, 0 = off
SETPOINT	**341**	1	int8	1	Low byte	W/R	Default occupied setpoint. Works in concert with the "occupied setpoint control register", register 339
SETPOINT	**345**	1	int8	0.1(℃)	Low byte	W/R	(Day) Occupied setpoint
SETPOINT	**346**	1	int8	0.1(℃)	Low byte	W/R	(Day)Occupied cooling setpoint dead band , offset from setpoint for cooling to begin. Units are 0.1 deg.
SETPOINT	**347**	1	int8	0.1(℃)	Low byte	W/R	(Day)Occupied heating setpoint dead band , offset from setpoint for heating to begin. Units are 0.1 deg.
SETPOINT	**348**	2	int16	0.1(℃)	Full	W/R	(Day)Occupied cooling setpoint (day cooling setpoint)
SETPOINT	**349**	2	int16	0.1(℃)	Full	W/R	(Day)Occupied heating setpoint (day heating setpoint)
SETPOINT	**350**	1	int8	0.1(℃)	Low byte	W/R	(Night)Unoccupied setpoint.
SETPOINT	**351**	1	int8		Low byte		spare
SETPOINT	**352**	1	int8	0.1(℃)	Low byte	W/R	(Night)Unoccupied heating setpoint dead band , heating deadband for the night (OFF) mode. Units of 1 deg.
SETPOINT	**353**	1	int8	0.1(℃)	Low byte	W/R	(Night)Unoccupied cooling setpoint dead band , cooling deadband for the night (OFF) mode. Units of 1 deg.
SETPOINT	**354**	2	int16	10(℃)	Full	W/R	(Night)Unoccupied heating setpoint

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
	355	2	int16	10(℃)	Full	W/R	(Night)Unoccupied cooling setpoint
	356	2	int16	0.1(℃)	Full	W/R	(TBD)Window interlock cooling setpoint
	357	2	int16	0.1(℃)	Full	W/R	(TBD)Window interlock heating setpoint
SETPOINT	**358**	2	int16	0.1(℃)	Full	W/R	PID2 Unoccupied (OFF) Setpoint
SETPOINT	**359**	2	int16	0.1(℃)	Full	W/R	PID2 Occupied Setpoint
SETPOINT	**360**	2	int16	0.1(℃)	Full	W/R	PID2 Cooling Deadband
SETPOINT	**361**	2	int16	0.1(℃)	Full	W/R	PID2 Heating Deadband
SETPOINT	**362**	2	int16	0.1(℃)	Full	W/R	economy mode cooling setpoint
SETPOINT	**363**	2	int16	0.1(℃)	Full	W/R	economy mode heating setpoint
SETPOINT	**364**	1	int8	10(℃)	Low byte	W/R	POWERUP_SETPOINT , setpoint on power up
SETPOINT	**365**	1	int8	10(℃)	Low byte	W/R	MAX_SETPOINT, Setpoint high, the highest setpoint a user will be able to set from the keypad.
SETPOINT	**366**	1	int8	10(℃)	Low byte	W/R	MIN_SETPOINT, Setpoint Low, the lowest setpoint a user will be able to set from the keypad.
SETPOINT	**373**	1	int8	0.1(℃)	Low byte	W/R	Setpoint increment on the display each time the user hits the up/down buttons. Units are 0.1Deg, 10 = 1Deg and so on.
SETPOINT	**374**	1	int8		Low byte	W/R	Freeze protect setpoint. If the ambient temperature less than the setpoint, the heating valve will open some time the Delay to off register set .
PID	**382**	1	int8	1	Low byte	W/R	Sensor to be used for the PID calculations, 1= external sensor analog input 1 , 2 = internal thermistor, 3 = average the internal thermistor and analog input1
PID	**383**	2	int16	1	Full	W/R	Universal PID input select, 0=none, 1=analog_in1, 2=analog_in2, 3= humidity 4= co2
PID	**384**	2	int16	1	Full	R	PID1, current PI calculation for PID number 1 (PID2 is in register 240)
PID	**385**	1	int8	0,1	Low byte	R	COOLING PTERM , proportional term for PI calculation
PID	**386**	1	int8	0,1	Low byte	W/R	COOLING ITEM
PID	**387**	2	int16	0,1	Full	W/R	PID2 P term
PID	**388**	2	int16	0,1	Full	W/R	PID2 I term
PID	**389**	1	int8	1	Low byte	R	PID2, the current value of PID number 2
PID	**390**	2	int16	1	Full	W/R	PID1 Units High byte - Upper 2 bytes of the PID1 units in ASCII
PID	**391**	2	int16	1	Full	W/R	PID1 Units Low byte - Lower 2 bytes of the PID1 units in ASCII
PID	**392**	2	int16	1	Full	W/R	PID2 Units High byte - Upper 2 bytes of the PID2 units in ASCII
PID	**393**	2	int16	1	Full	W/R	PID2 Units Low byte - Lower 2 bytes of the PID2 units in ASCII
PID	**394**	1	int8	1	Low byte	R	PID2 heating or cooling state derived from PID2 register 240, 0=coasting, 1=cooling1, 2=cooling2, 3=cooling3, 4=heating1, 5=heating2, 6=heating3, 14=cooling4, 15=cooling5, 16=cooling6, 17=heating4, 18=heating5, 19=heating6.

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
UI	**395**	1	int8	1	Low byte	W/R (Reboot after write)	KEYPAD_SELECT , variable to select various keypad arrangements. Refer to PAd description in Table 1: Advanced Menu Items Number of buttons on the keypad The keypad can have up to six buttons. The setting is not normally adjusted in the field. Care should be taken to coordinate with the settings in register 106, the Heat / Cool changeover parameter 128=0 , two buttons, for adjusting the setpoint. 128=1 , 4 buttons, lower pair for the mode and upper pair for the setpoint. 128=2 , 6 button keypad, with heat cool manual selection. Lower pair for the mode, next pair for the setpoint and upper pair for the heat or cool mode. 128=3 , 6 button keypad, with separate heating and cooling setpoints. Lower pair for the mode, next pair for the cooling setpoint and uppermost pair for the heating setpoint.
UI	**396**	1	int8	1	Low byte	W/R	SPECIAL_MENU_LOCK, Special menu lockout via keypad, serial port only, 0=Full Menu, 1=Menu Disabled, 2=Typical small menu system, 3 = The user can adjust the setpoint in menu mode, 4 = Partial menu enabled When the LOC parameter isset to '1' the keypad will be locked out from all menu operations. The normal operation of the keypad is not affected; the fan and setpoint buttons work as usual. When the LOC parameter is set to '2' the keypad will be locked out from partial menu operations allowing maintenance personnel to access some of the less critical menu parameters while maintaining a LOC on functions reserved for the primary administrator. This option allowsaccess to calibration of the internal and external temperature sensor (CAL and CAE) and the override time parameter (ORT). LOC = 3,The user can not do anything from keypad except enter menu mode.In menu mode,the user can set setpoint ,fan speed,calibration and override timer. When the menu system is locked out, the only way to adjust the tstat parameters is through the network port or through the communications jack at the bottom of the tstat. The parameter can be set back to '0' only though the communications ports as well LOC = 4,User can adjust setpoint and fan speed from keypad,and enter menu to operate part of menu,include CAL,pterm,iterm,SOP,cooling deadband,heating deadband,C/F units and factory default.
UI	**397**	1	int8	1	Low byte	W/R	dIS – Display. This sets the display to either room temperature or setpoint. 0 = room temp, 1 = setpoint, 2 = Blank Display,3 = PID2 value,4 = PID2 setpoint, 5 = set segment code by manually, 6 = Display sleep
UI	**399**	1	int8	1	Low byte	R	Last key pressed counter. Minutes since the used last pressed a key.
UI	**400**	1	int8	1	Low byte	R	Keypad encoded value. Last keypress, READ ONLY
UI	**401**	1	int8	1	Low byte	W/R	LED hundred's digit, , can drive the LEDs manually when the display register 381 is set to manual (5)
	402	1	int8	1	Low byte	W/R	LED ten's digit, , can drive the LEDs manually when the display register 381 is set to manual (5)
UI	**403**	1	int8	1	Low byte	W/R	LED one's digit code, can drive the LEDs manually when the display register 381 is set to manual (5)
UI	**404**	1	int8	1	Low byte	W/R	LED discrete status symbols, can drive the LEDs manually when the display register 381 is set to manual (5)
UI	**405**	1	int8	1	Low byte	W/R	Rouding display. 0 = round the display to the nearest digit; 1 = round the display to the nearest 1/10 unit; 5 = round the display to the nearest 1/2 unit. 2,3,4 reserved.
UI	**406**	1	int8	1	Low byte	W/R	The minimum address which the device can accept, use this to limit addresses to a certain defined band.
UI	**407**	1	int8	1	Low byte	W/R	The maximum device address can be set. The device address should between min and max address, default is 254
UI	**408**	1	int8	1	Low byte	R	Show the size of E2 chip. 0 = 24c02, 1 = 24c08/24c16.

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
UI	**409**	1	int8	1	Low byte	W/R	Assign the timer to be used for which feature. 0 = period timer, 1 = rotation timer, 2 = interlock, 3 = PWM timer.
UI	**410**	1	int8	1	Low byte	W/R	Clock, year
UI	**411**	1	int8	1	Low byte	W/R	Clock,month
UI	**412**	1	int8	1	Low byte	W/R	Clock,week
UI	**413**	1	int8	1	Low byte	W/R	Clock,day
UI	**414**	1	int8	1	Low byte	W/R	clock, hours
UI	**415**	1	int8	1	Low byte	W/R	clock,minutes
UI	**416**	1	int8	1	Low byte	W/R	clock,seconds
UI	**417**	1	int8	1	Low byte	W/R	alarm,not used now
UI	**418**	1	int8	1	Low byte	W/R	work day,wake time hour
UI	**419**	1	int8	1	Low byte	W/R	work day,wake time minutes
UI	**420**	1	int8	1	Low byte	W/R	work day,away time,hour
UI	**421**	1	int8	1	Low byte	W/R	work day,away time,minute
UI	**422**	1	int8	1	Low byte	W/R	work day,home time,hour
UI	**423**	1	int8	1	Low byte	W/R	work day,home time,minute
UI	**424**	1	int8	1	Low byte	W/R	work day,sleep time,hour
UI	**425**	1	int8	1	Low byte	W/R	work day,sleep time,minute
UI	**426**	1	int8	1	Low byte	W/R	weekend day,wake time hour
UI	**427**	1	int8	1	Low byte	W/R	weekend day,wake time minutes
UI	**428**	1	int8	1	Low byte	W/R	weekend,away time,hour
UI	**429**	1	int8	1	Low byte	W/R	weekend,away time,minute
UI	**430**	1	int8	1	Low byte	W/R	weekend,home time,hour
UI	**431**	1	int8	1	Low byte	W/R	weekend,home time,minute
UI	**432**	1	int8	1	Low byte	W/R	weekend,sleep time,hour
UI	**433**	1	int8	1	Low byte	W/R	weekend,sleep time,minute
UI	**434**	1	int8	1	Low byte	W/R	LCD turn off, 0 = turn off, 1 = normal
UI	**435**	2	int16	1	Full	W/R	User name. line 1:characters 1 & 2
UI	**436**	2	int16	1	Full	W/R	User name. line 1:characters 3 & 4
UI	**437**	2	int16	1	Full	W/R	User name. line 1:characters 5 & 6
UI	**438**	2	int16	1	Full	W/R	User name. line 1:characters 7 & 8
UI	**439**	2	int16	1	Full	W/R	User name. line 2:characters 1 & 2
UI	**440**	2	int16	1	Full	W/R	User name. line 2:characters 3 & 4
UI	**441**	2	int16	1	Full	W/R	User name. line 2:characters 5 & 6
UI	**442**	2	int16	1	Full	W/R	User name. line 2:characters 7 & 8
UI	**443**	2	int16	1	Full	W/R	Internal sensor name. line 1:characters 1 & 2
UI	**444**	2	int16	1	Full	W/R	Internal sensor name. line 1:characters 3 & 4
UI	**445**	2	int16	1	Full	W/R	Internal sensor name. line 1:characters 5 & 6
UI	**446**	2	int16	1	Full	W/R	Internal sensor name. line 1:characters 7 & 8
UI	**447**	2	int16	1	Full	W/R	Input 1 user name. line 1:characters 1 & 2

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
UI	**448**	2	int16	1	Full	W/R	Input 1 user name. line 1:characters 3 & 4
UI	**449**	2	int16	1	Full	W/R	Input 1 user name. line 1:characters 5 & 6
UI	**450**	2	int16	1	Full	W/R	Input 1 user name. line 1:characters 7 & 8
UI	**451**	2	int16	1	Full	W/R	Input 2 user name. line 1:characters 1 & 2
UI	**452**	2	int16	1	Full	W/R	Input 2 user name. line 1:characters 3 & 4
UI	**453**	2	int16	1	Full	W/R	Input 2 user name. line 1:characters 5 & 6
UI	**454**	2	int16	1	Full	W/R	Input 2 user name. line 1:characters 7 & 8
UI	**455**	2	int16	1	Full	W/R	Input 3 user name. line 1:characters 1 & 2
UI	**456**	2	int16	1	Full	W/R	Input 3 user name. line 1:characters 3 & 4
UI	**457**	2	int16	1	Full	W/R	Input 3 user name. line 1:characters 5 & 6
UI	**458**	2	int16	1	Full	W/R	Input 3 user name. line 1:characters 7 & 8
UI	**459**	2	int16	1	Full	W/R	Input 4 user name. line 1:characters 1 & 2
UI	**460**	2	int16	1	Full	W/R	Input 4 user name. line 1:characters 3 & 4
UI	**461**	2	int16	1	Full	W/R	Input 4 user name. line 1:characters 5 & 6
UI	**462**	2	int16	1	Full	W/R	Input 4 user name. line 1:characters 7 & 8
UI	**463**	2	int16	1	Full	W/R	Input 5 user name. line 1:characters 1 & 2
UI	**464**	2	int16	1	Full	W/R	Input 5 user name. line 1:characters 3 & 4
UI	**465**	2	int16	1	Full	W/R	Input 5 user name. line 1:characters 5 & 6
UI	**466**	2	int16	1	Full	W/R	Input 5 user name. line 1:characters 7 & 8
UI	**467**	2	int16	1	Full	W/R	Input 6 user name. line 1:characters 1 & 2
UI	**468**	2	int16	1	Full	W/R	Input 6 user name. line 1:characters 3 & 4
UI	**469**	2	int16	1	Full	W/R	Input 6 user name. line 1:characters 5 & 6
UI	**470**	2	int16	1	Full	W/R	Input 6 user name. line 1:characters 7 & 8
UI	**471**	2	int16	1	Full	W/R	Input 7 user name. line 1:characters 1 & 2
UI	**472**	2	int16	1	Full	W/R	Input 7 user name. line 1:characters 3 & 4
UI	**473**	2	int16	1	Full	W/R	Input 7 user name. line 1:characters 5 & 6
UI	**474**	2	int16	1	Full	W/R	Input 7 user name. line 1:characters 7 & 8
UI	**475**	2	int16	1	Full	W/R	Input 8 user name. line 1:characters 1 & 2
UI	**476**	2	int16	1	Full	W/R	Input 8 user name. line 1:characters 3 & 4
UI	**477**	2	int16	1	Full	W/R	Input 8 user name. line 1:characters 5 & 6
UI	**478**	2	int16	1	Full	W/R	Input 8 user name. line 1:characters 7 & 8
UI	**539**	1	int8	1	Low byte	W/R	LCD screen1,select which information will display on LCD,range0 to 12
UI	**540**	1	int8	1	Low byte	W/R	LCD screen2,select which information will display on LCD,range0 to 12
UI	**541**	1	int8	1	Low byte	W/R	Demand response flag 0: disable 1:yes 2:no
UI	**542**	1	int8	1	Low byte	W/R	(reserved)All registers except fan speed and manual input are not writable.0 = lock,1 = no lock
RESERVED	**543**	1	int8	1	Low byte		Enable/disable PIR correspond 1/0 respectively.
UI	**564**	1	int8	1	Low byte	W/R	lcd rotate enable, decide how many items will be shown on rotate mode,range0 to 21.Display item select:0:none 1:temperature 2:setpoint 3:AI1 4:AI2 5:AI3 6:AI4 7:AI5 8:AI6 9:AI7 10:AI8 11:MODE 12:USER INFO 13:CLOCK DATE 14:CLOCK TIME (TBD:OUTPUT)
UI	**565**	1	int8	1	Low byte	W/R	schedule enable/disable control bit. 0 = disable 1 = enable, default: enable

Block	Holding Register	Bytes	Ints	Multipler	Length	Operation info	Register and Description
UI	**566 - 579**	14	int8	1	Low byte	W/R	decide which item will be shown in the display sequency.see up note
UI	**580 - 586**	7	int8	1	Low byte	W/R	decide which item will be shown as the output item.
OUTPUT TABLE	**587**	1	int8	1	Low byte	W/R	PWM output range in COAST mode. 0 = CLOSE, 1 = OPEN, 2 = 0-100%, 3 = 50-100%, 4 = 0-50%. MSb 4 bits correspond to output4 and LSB 4 bits correspond to output5
OUTPUT TABLE	**588**	1	int8	1	Low byte	W/R	PWM output range in COOLING2 mode. 0 = CLOSE, 1 = OPEN, 2 = 0-100%, 3 = 50-100%, 4 = 0-50%. MSb 4 bits correspond to output4 and LSB 4 bits correspond to output5
OUTPUT TABLE	**589**	1	int8	1	Low byte	W/R	PWM output range in COOLING3 mode. 0 = CLOSE, 1 = OPEN, 2 = 0-100%, 3 = 50-100%, 4 = 0-50%. MSb 4 bits correspond to output4 and LSB 4 bits correspond to output5
OUTPUT TABLE	**590**	1	int8	1	Low byte	W/R	PWM output range in COOLING1 mode. 0 = CLOSE, 1 = OPEN, 2 = 0-100%, 3 = 50-100%, 4 = 0-50%. MSb 4 bits correspond to output4 and LSB 4 bits correspond to output5
OUTPUT TABLE	**591**	1	int8	1	Low byte	W/R	PWM output range in HEATING1 mode. 0 = CLOSE, 1 = OPEN, 2 = 0-100%, 3 = 50-100%, 4 = 0-50%. MSb 4 bits correspond to output4 and LSB 4 bits correspond to output5
OUTPUT TABLE	**592**	1	int8	1	Low byte	W/R	PWM output range in HEATING2 mode. 0 = CLOSE, 1 = OPEN, 2 = 0-100%, 3 = 50-100%, 4 = 0-50%. MSb 4 bits correspond to output4 and LSB 4 bits correspond to output5
OUTPUT TABLE	**593**	1	int8	1	Low byte	W/R	PWM output range in HEATING3 mode. 0 = CLOSE, 1 = OPEN, 2 = 0-100%, 3 = 50-100%, 4 = 0-50%. MSb 4 bits correspond to output4 and LSB 4 bits correspond to output5