Description

This full-featured thermostat is designed for cooling and heating systems in residential and commercial buildings. The thermostat can be configured for use with air handlers, fan coils, VAV, modulating valves and practically any HVAC application. All models support bacnet and modbus protocol which allows easy integration with the big name control systems like Niagara, Siemens, Honeywell, Johnson Controls, Delta, Reliable and Kreuter to name a few. There are five relays and two analog outputs as well as 8 universal inputs. These i/o can be configured using the free software. There are more than 300 settings with many options for each of the settings so its possible to configure these devices for most any application. Once the unit is configured, save the config file for copying to other controllers and backing up project settings.

Options are available for occupancy sensor, zigbee, and humidity / enthalpy.



Highlights

- Bacnet MSTP and Modbus RTU protocols over RS485.
- Baudrates : 1.2k,4.8k,9.6k,14.4,19.2k, 38.4k, 57.6k, 76.8k and 115.2k
- Well documented register list for easy integration with other systems.
- 8 universal inputs for external temperature sensors, contacts, etc.
- 5 relay outputs, each rated at 12~24vac, 2 amps.
- 2 analog outputs, 0-10V @ 100ma.
- Color LCD display with scroll bar.
- Easily configure the thermostat for practically any application.
- Clock with infinite life supercap battery backup.
- Uses 32 bit Arm CPU with 12 bit analog readings.

Typical Application



Specifications

Outputs	5 relay outputs 2 analog outputs 10V@100mA
8 Universal Inputs	10K therm,contacts,4-20mA,0-5V,0-10V
Operating range	-30-70℃(-22-158°F) / 0 to 90%RH
Supply voltage	12~24VAC/DC±20% 50-60HZ
Power consumption	100mA at 12 VDC
Relay contacts	5Relays 2A@24VAC UL:file No: E169380
Plastic Housing	Flammability rating UL94 file E56070
Enclosure rating	IP31
Protocols	Bacnet MSTP and Modbus RTU
Baudrate	9600,19200,38400,57600,115200
Temperature sensor	10K thermister ±0.5℃
Light sensor accuracy and range	0-1000 lx
Setup Software	Free,nolicensing,open source

Approvals

Relay	UL File NO:E169380
Plastic Enclosure	PA66 UL 94V0 File E56070
PCB	FR-4 Eposy Glass Cloth UL479892
Terminal Block	PA66 UL 94V-0

Software

- 8 analog inputs,2 analog outputs,5 digital outputs
- Industry standard Bacnet & Modbus protocols
- User screen displays
- Day at home, work time, night at home, sleep, holiday
- 3 PID Controllers

Dimension





Wire Routing



Wiring Diagram



Bacnet Objects

Device	Object identifier;Object name;Object type;Vendor name;Vendor identifier;Model name;Firmware revision;Application software version;Protocol version;Protocol revision;Object list;Max apdu length accepted;Segmentation supported
Universal input	Object identifier;Object name;Description;Object type;Present value;Out of service;Units
Analog Output	Object identifier;Object name;Description;Object type;Present value;Out of service;Units;Priority array
Analog Value	Object identifier;Object name;Description;Object type;Present value;Out of service;Units;Priority array
Binary Output	Object identifier;Object name;Description;Object type;Present value;Out of service;Units;Priority array;Polarity;Relinquish default;Active text;Inactive text

AV	AV and Description
1	Buadrate 96=9600 192=19200 384=38400 576=57600 1152=115200 unit:bps
2	Station Number
3	Instance Number
4	Schedule enable/disable 1:enable 0:disable
5	Occupied/Home/Day setpoint
6	Unoccupied/Work/Night setpoint
7	Fan mode setting 0:unoccupied mode,1:user mode,2 user mode,3user mode 4:occupied mode
8	Firmware Version
9	Current mode of operation 0:coast mode 1:cool mode 2:heat mode
10	Temperature unit 0:degree C 1:degree F
11	System mode 0:auto 1:heat 2:cool,if set to o,system will control by PID,if set to 1,system will be in heat onlt mode,and 2 will be cool only mode.
12	spare
13	Override timer unit:minute
14	Pid loop2 occupied setpint
15	Pid loop2 unoccupied setpint
16	Output manual/auto,each bit indicate each output 0:auto 1:manual

AI	Description
Al1	Analg input1
Al2	Analg input2
Al3	Analg input3
Al4	Analg input4
Al5	Analg input5
Al6	Analg input6
Al7	Analg input7
Al8	Analg input8
Al9	Internal temperature value
AI10	Humidity value
Al11	CO2 value if ti has CO2 Sensor present
BO	Description
BO1	Binary output1 state 1:on 0:off
BO2	Binary output2 state 1:on 0:off
BO3	Binary output3 state 1:on 0:off
BO4	Binary output4 state 1:on 0:off
BO5	Binary output5 state 1:on 0:off
AO	Description
AO1	Analg output1 value
AO2	Analg output2 value

Tstat8	Count	Register and Description
0 to 3		Serial Number - 4 byte value. Read-only
4 to 5		Software Version- 2 byte value. Read-only
6		ADDRESS. Modbus device address
7		Product Model. This is a read-only register that is used by the microcon- troller to determine the product model.
8		Hardware Revision. This is a read-only register that is used by the microcontroller to determine the hardware revision.
9		PIC firmware version
10		PIC version of Humidity module
11		PLUG_N_PLAY_ADDRESS, 'plug n play' address, used by the network master to resolve address conflicts. See VC code for algorithms
12~14		Spare
15		Bau - Baudrate, 0=9.6kbaud, 1=19.2kbaud 2=38.4kbaud 3=57.6kbaud 4=115.2kbaud 5=76.8kbaud 6=1.2kbaud 1=4.8kbaud 1=14.4kbaud
16		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, this is done automatically by T3000 any time a config file is loaded. Writing 175 resets the unit back to the user defaults.
17~19		Spare
20		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
21		PANID for zigbee devices
22		Device type of zigbee. 0 means coordinator, 1 means router
23~24		Channel of Zigbee, default channel is channel 13, 0x00002000
25		Zigbee module software revision
26~33		Zigbee extented address(MAC address)
34		Set 1 to reboot zigbee module
35~50		Security key
51		The number of zigbee neighbors around
52		The modbus ID of the 1st zigbee neighbor
53		The signal strength of the 1st zigbee neighbor
54		The modbus ID of the 2nd zigbee neighbor

*The register list is very long ,it can be downloaded as an excel spreadsheet (03ModbusBacnetRegisterList.xls) at the following link:<u>http://tinyurl.com/ybaj9d3u</u>

Part Number Scheme



* Tstat8 - Black :MOQ 50PCS

Highlights



Advanced Menu Item Details

They have several advanced menu items which can be adjusted in the field to suit the application and tune the operation of the thermostat. Generally speaking, all the parameters are set up at the factory on an order-by-order basis and will give satisfactory results out of the box.





LCD Screen Display

1. When you press or line is it will increase or decrease the set point value. The value will flash two times, then it will confirm the setting automaticlly.



2.In the normal mode, press both and and at the same time. Hold for several seconds, it will switch to the menu mode. Press are to scroll through the menu options such as 'Add', 'CAL', 'bAU', 'UNITS' and many others. To change the values at a particular menu, press are or restricted automatically.

To change the unit's address, scroll through the menu until you reach 'Add'. Press increase or decrease the unit's address from 1 to 254.

To change the baudrate, locate 'bAU' within the menu and use and regional to choose 19200 or 9600.



Custom Enclosures and Logos



Black



Tstat8







Tstat8-H-Zigbee

T3000 Operation

1.Connect Tstat8 to PC by RS485, start T3000 software

	Click to sca	an				Click	to close
ST3000 Building Automation System 2016.11.17							
File Tools View Database Control Miscellaneous Help							
	T3000 Scanning T3000 is so Exit	9 anning, please wait.			3		
	Scanning Mo	de Skip	Status	Reply	Notes		
	Ethernel	t Scan No	Running	19	Receive reply :18		
	COM7	9600 No	Running	0	Sending scan broadcast command From 1 to 254		
	COM7	19200 No	Wait	0			
	COM7	38400 No	Wait	0			
	COM7	115200 No	Wait	0			

2.Click the button scan, the following view will appear and close it as the picture indicates. When discussing Tstat8, close the view.

	Tstat8 dete	ected	Clic	k to close	e when dis	cussingTstat8
T3000 Building Automation System 2016.11.17						
File Tools View Database Control Miscellaneous Help						
Building View 👻 4 🗙						
	Scan Result					
	SCAN RESULT:					
	Mcdel	Building Floor	Room Sub.net	Serial# Address	Port Protocol	
	TStatB	fault_Buildi	fault_Buildi	0 254	COM7 Modbus 485	
	FD_TEST	fault_Buildi Floor1	Room1 Sub_net1	66779 192.168.0.144	502 TCP/IP	
	Humdity	fault_Buildi Floor1	Room1 Sub_net1	98742 192.168.0.34	502 TCP/IP	
	BTUMeter	fault_Buildi Floor1	Room1 Sub_net1	92661 192.168.0.47	502 TCP/IP	
	FlowMate	hault_Buildi Floor1	Room1 Sub_net1	1234 192.168.0.47	502 TCP/IP	
	TOTATO	fault Buildi Floor1	Room1 Sub_net1	92294 192.168.0.97	502 TCP/IP	
	TCTATE	fault_Buildi Eleast	Roomi Sub_neti	9041/ 192.168.0.9/ 98433 193.168.0.97	502 TCP/IP	
	131610	fault Buildi Elevert	Room1 Sub pet1	98406 192 168 0 97	502 TCP/IP	
	TSTATE	fault Buildi Floor1	Room1 Sub net1	96416 192,168,0.97	502 TCP/IP	
	TSTATE	Fault Buildi Floor1	Room1 Sub net1	96413 192,168,0.97	502 TCP/IP	
		fault Buildi Floor1	Room1 Sub net1	98428 192.168.0.97	502 TCP/IP	
		fault_Buildi Floor1	Room1 Sub_net1	98419 192.168.0.97	502 TCP/IP	
		fault_Buildi Floor1	Room1 Sub_net1	98489 192.168.0.97	502 TCP/IP	
		fault_Buildi Floor1	Room1 Sub_net1	98421 192.168.0.97	502 TCP/IP	
		fault_Buildi Floor1	Room1 Sub_net1	98399 192.168.0.97	502 TCP/IP	
		fault_Buildi Floor1	Room1 Sub_net1	98431 192.168.0.97	502 TCP/IP	
		fault_Buildi Floor1	Room1 Sub_net1	98429 192.168.0.97	502 TCP/IP	
	CHAMBER	fault_Buildi Floor1	Room1 Sub_net1	92468 192.168.0.244	10000 TCP/IP	
	HUMSENSOR	fault_Buildi Floor1	Room1 Sub_net1	2883884 192.168.0.244	10000 TCP/IP	
	BACnet Controller	fault_Buildi Floor1	Room1 Sub_net1	90023 192.168.0.15	10000 TCP/IP	

3.Click the button to scan, the following view will appear and close it as the picture indicates. When discussing Istat8, close the view.

	ak to ober	as the name	1 1000 runge	to annoronit.	
	CK to chan	ge the name			
File Tark View Database Control Miscellaneous He					
File Todis View Database Control Miscellaneous Re	ip				
🚹 🛏 🕞 🔵 🚍 🐨 🖤 🔛	M 🕐 🖳 🎯 🍳				_
Default_Building->Default_Building 🗢 🤋 🗙	NUM Full Label	Auto/Manual Value U	Units Range Calibration	Filter Function	
U PANEL112	1 Input1	Auto -100.0 °C	10K Thermistor Type Adjust	0 Normal	
🖃 📶 panel44_10	2 Input2 3 Input3	Auto -100.0 °C	10K Thermistor Type Adjust 10K Thermistor Type Adjust	0 Normal	
📰 RPC	4 Input4	Auto		- Normal	
T3-8AI8AO6DO:95236-15-192.168.0.44	5 Input5	Auto Select Range Number	Mr. Transmiss Transmisson .	2 North	_
T3_22AI	6 Input6 7 Input7	Auto Enter Units Number :	1 OK Cancel	10K Thermis	tor Type2
	8 Input8	Auto 0, Unus	ed 0.7 c	han mind 8 have mind	
	9 Internal Temp Sensor	Auto	07.0	O -5v	
	10 Humidity Sensor 11 CO2 Sensor	N/A Auto 1.10K Th	nermistor Type2 🔘 8. U	Inoccupied/Occupied 🔘 0-10v	
	12 Lighting Sensor	N/A © 2.0-100	% 🔘 9. 0	0pen/Close	
T3-8AI8AO6DO:33685761-5-192.168.0.3		© 3.0n/0f	ff () 10.	Close/Open	
T3-BB/LB/TB:92294-254-192.168.0.97					
CO2_NODE			0 11.1	uk Thermistor Type3	
TSTAT8		© 5.Off/0	n 🔘 12.0	-20ma	
TSTAT8		© 6. Custa	om Sensor2		
TSTAT8					
TSTAT8		L			
TSTAT8					
TSTAT8					
TStat8-98399-73-192 168 0 97					
TStat8-08406-14-102 168 0 07					
TS+++9-08421-7-102 168 0.07					
T\$++9.02/28-1-102 169 0.07					
T0:10:00120 22 102 100 07					
TSL-10.00423-22-132.100.0.37					
TSL40090401-24-192.108.0.97					
15(3(5):96489-6-192.108.0.97					
13-BB/LB/18-SN1122					
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TStat8-SN131073					
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Com7					

4.Click the button let to scan, the following view will appear and close it as the picture indicates. When discussing Tstat8, close the view.

D200 holding Advanced System D21/202 Prior Hall Control Mathematic System Term Depth (AH.1) Senial humber Imperature and Setpoint Prior H4.10 Primet Version 2.9 Model TStat8 T3.2AAB.ACOBO.95226-15-152.168.0.4 DAddress 25 Model TStat8 T3.2AAB.ACOBO.95226-15-152.168.0.3 Termera Version 2.9 Model TStat8 T3.2AAB.ACOBO.95226-15-152.168.0.3 Termera Version Culput Termera Version Culput T3.4AB.ACOBO.95226-15-152.168.0.3 Termera Version Culput Termera Version Culput T3.4AB.ACOBO.33885761-5-152.168.0.3 Termera Version Culput Termera Version Culput T3.4AB.ACOBO.33885761-5-132.168.0.37 Tistaff Setspace Termera Version Culput Termera Version Culput Tistaff Setspace Tistaff Setspace Termera Version Culput Control Weathematic Control Weathemat	Clie	ck to do setting	gs					
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Panel4 J0 Date T3488AC6D0:95236-15-192.168.0.44 Pictor Date Date Pictor Date Pictor Date Pictor Date Date Pictor Date Pictor Date Date Pictor Date Date Pictor Date	Inputs [Alt-I] Sensors and feedback points wired to the controlle	ID Address 254	s	erial Number 0		Temperature and Setpoint		
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T3-8ABA0600035256-15-192.168.0.4 T3_22AI T3_2AA T3_3A60600 T3_3A60600 T3_3P112 T3-8ABA06000:33857615-5192.168.0.3 T3-8ABA06000:33857615-5192.168.0.37 T3-8ABA060000:33857615-5192.168.0.37 T3-8ABA060000000000000000000000000000000000	- RPC	Firmware Version	2.9	Model TStat8		Cooling	25.0 C	22.0 C
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T3-8AAA60003385761-5-192166.03 T3-8AAA60003385761-5-192166.037 T3-8AAA60003385761-5-192166.037 T35A836939-23-192166.037 T35A836941-2-192166.037 T35A836941-2-192166.037 T35A836941-2-192166.037 T35A836941-2-192166.037 T35A8369423-2-192166.037 T35A8369423-2-192166.037 T35A8369423-2-192166.037 T35A8589423-2-192166.037 T35A8598423-2-192166.037 T35A8598423-2-192166.037 T35A8598423-2-192166.037 T35A8598423-2-192166.037 T35A8598423-2-192166.037	T3 PT12	7	0	Contrada Off		remperature		
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5. Click 💮 to do settings, you can see a tab below about parameter. Click PIDs tables, you can find PIDs set Dialog.

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Set Up Tstat8-WIFI via T3000

1.Visit https://temcocontrols.com/ftp/software/09T3000Software.zip, download T3000 software and install it; to scan

2.Start T3000 software, click

