# PRESSURA™ CONFIGURATION SOFTWARE VERSION 1.0

USER'S MANUAL

P/N 6007162, REVISION A AUGUST 2013



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# Introduction

The TSI PresSura Configuration software requires that a TSI USB key is attached to the system prior to running the application. The drivers for the TSI USB key are installed during the installation of the TSI PresSura Configuration Software. Attach the Key to the system. Start the TSI PresSura Configuration software application by double-clicking on the desktop shortcut or through the system program menu **TSI | TSI PresSura Configuration** software shortcut.

When accessing the instrument via the software, the TSI PresSura Room Controller or PresSura Room Monitor must have the main running screen active. If the instrument is displaying a menu selection or a menu function screen, the software will be unable to communicate with the instrument.

S. PresSura Config	guration Software		- 2	the loss lower \$	
File Instrume	nt Help				
🖉 READ  🙂 UP	DATE 🔒 Open File	🔜 Save To File			
CONFIGURE ALA	RM CONFIG ROOM 1	ALARMS ROOM 1 SET	POINTS	INTERFACE CONTROL SENSOF	RS .
SYSTEM				· · · · · · · · · · · · · · · · · · ·	
Controller Model	Rpc30	•	Input 1	TSI Sensor 🔹	
Number of Roor	ms 1 Room	•	Input 2	None	
Control Device	es None	•	Input 3	None	
Room 1 Lab	bel		Input 4	None	
Room 2 Lab	bel		Input 5	None	
Anteroom Lab	pel		Input 6	None	
Versio	n		Input 7	None	
Passco	de Off	•			
Measurement		a			
Average [	1 Casaad -				
Average					
Units	In H2o, Cfm 🔻				
Number Format	Period 🔻				
Disconnected IDL	E OK				

The application starts with a blank configuration screen.

Figure 1. Configuration Screen

The TSI PresSura Configuration Software functionality is available through the application menu as well as toolbar buttons.

Use the application tool bar to read configuration data, update configuration data, open a saved configuration file and save the current configuration to a file.

Use the File menu to open a saved configuration file, save the current configuration to a file and exit the application.



# File Instrument Help Image: Configuration Soft Open ATE Open Save M CONFIG

#### Figure 3. File Menu



#### Figure 4. Instrument Menu

Presoura	rcomgua	nuori -	Joitware	
File In:	trument	Hel	p	
READ	UPDA	?	Instructions	To F
CONFIGURI	ALARM	10	About	S R

#### Figure 5. Help Menu

The status and progress bar at the lower portion of the active screen provides information about the task that is being performed by the Room configuration software.

The status at application start should reflect the following image.



#### Figure 6. Status Message before Reading or Writing Configuration Data

The status at the completion of a read of the attached instrument should reflect the following image.

CONFIGURATION READ COMPLETE

Figure 7. Status Message after Reading Configuration Data

# Figure 2. Application Tool Bar

2

software.

# Use the Instrument menu to read the configuration from the attached device. Also update the selected configuration values to an attached device.

Use the Help menu to view this user manual for this software, as well as the version and contact information about this

# **Reading Configuration from an Attached Instrument**

To read the configuration from an attached instrument, click the **READ** button **PREAD** or select **Read** from the Instrument menu.

The software will automatically search the available Com Ports to find an attached TSI Room Controller or TSI Room Monitor instrument. Make sure that the attached instrument is powered with the main run screen active.

The software will read the configuration, set points, interface, and control settings from the instrument. Then the software will populate the tabs of the PresSura Configuration Software dialog. When reading the instrument configuration has completed, the status bar will show **COMPLETE** and the progress bar will be filled and disappear.

The following screens are the tabs of the Room configuration software dialog.

#### Configure

🖏 PresSura Configu	uration Soft	ware	-	C •	1.20	-	100	_	x
File Instrument	t Help								
🥔 READ 🔮 UPDATE 😑 Open File 🔜 Save To File									
CONFIGURE ALAR	M CONFIG	ROOM 1 ALARMS	ROOI	M 1 SETPOINTS	INTERFACE	CONTROL	SENSORS		
SYSTEM			n rIN	PUTS					
Controller Model	Rpc30	-		Input 1	TSI Sensor		•		
Number of Rooms	s 1 Room	•		Input 2	None	•	•		
Control Devices	None	-		Input 3	None	•	•		
Room 1 Labe	1			Input 4	None	•	•		
Room 2 Labe	1			Input 5	None	•	•		
Anteroom Labe	1			Input 6	None	•	•		
Version	1			Input 7	None	•	•		
Passcode	Off	•							
Measurement A		•							
Average 1	Second	•							
Units	H2o Cfm	<b>_</b>							
Number Format	ariad								
	enou	•							

Figure 8. Configure Screen

*Note*: The Number of Rooms setting will hide or show menus:

Number of Rooms Setting	Room 1 Alarms	Anteroom Alarms	Room 2 Alarms
1 Room	$\checkmark$		
1 Room with Anteroom	$\checkmark$	✓	
2 Rooms with Anteroom	$\checkmark$	✓	$\checkmark$

 Table 1. Menu Availability based on Number of Rooms Setting.

# Alarm Config

PresSura Configuration	n Software	Contraction of Contractions					
File Instrument H	elp						
🖉 🖉 READ 💿 UPDATE 😑 Open File 🔚 Save To File							
ALARM CONFIG ROOM 1	ALARMS ROOM 2 ALARMS	ANTEROOM ALARMS ROOM 1 SETPOINTS INTERFACE CONTRO	L SENSORS				
ALARMS							
Audible Alarm	Off 🔹						
Mute Timeout (min)	5 👻						
Alarm Delay (seconds)	5						
Door Delay (seconds)	5						
Alarm Reset	Latched -						
RELAYOUPUT							
Relay 2 Select	High Alam -						
Relay 1 Direction							
Relay 2 Direction							
Holdy 2 Direction	OK/NO ISO IS OPEN						
DISCONNECTED THE OK							
ال							

Figure 9. Alarm Config Screen

# Room 1 Alarms

PresSura Configuration	on Software	0.0.000	Conception of the Conception of	- • ×			
File Instrument H	Help						
💋 READ 💿 UPDATE 😑 Open File 🚽 Save To File							
ALARM CONFIG ROOM	1 ALARMS ROOM 2 ALAR	ANTEROOM ALARMS ROOM 1 SE	TPOINTS INTERFACE CONTROL SEN	SORS 1			
BOOM 1 ALABMS							
Room Mode	Negative -						
Negative Low Alarm	0	120					
Negative High Alarm	0	120					
Positive Low Alarm	0	120					
Positive High Alarm	0	120					
Low Exhaust Alarm	0	N					
Low Supply Alarm	0	N					
Low Temp Alarm	0						
High Temp Alarm	0						
Low RH Alarm	0						
High RH Alarm	0						
Room Volume	0						
Low Alams	Disabled -						
High Alams	Disabled 🔻						
DISCONNECTED IDLE OK							

Figure 10. Room 1 Alarms Screen

Room	2	Alarms
	_	

🔞 PresSura Configura	tion Software	-		
File Instrument	Help			
E 🖉 READ 🕓 UPDAT	E 😑 Open File 🔚 Save	To File		
ALARM CONFIG ROOM	M 1 ALARMS ROOM 2 ALA	RMS AN	TEROOM ALARMS ROOM 1 SETPOINTS INTERFACE CONTROL SENSORS	
ROOM 2 ALARMS				
Room Mode	Negative •			
Negative Low Alarm	0	inH20		
Negative High Alarm	0	inH2O		
Positive Low Alarm	0	inH2O		
Positive High Alarm	0	inH2O		
Low Alarms	Disabled 👻			
High Alarms	Disabled -			
Disconnected IDLE OF	N CONTRACTOR OF CONTRACTOR OFO			.:
		_		

Figure 11. Room 2 Alarms Screen

**Note**: The Room 2 Alarms menu will only appear if the Number of Rooms item on the Configure menu is set to "2 Rooms with Anteroom".

#### Anteroom Alarms

18. PresSura Configura	tion Software	- 6		
File Instrument	Help			
🗄 🥖 READ  💟 UPDAT	'E   Open File 🔚 Save T	o File		
ALARM CONFIG ROOM	M 1 ALARMS ROOM 2 ALA	RMS AN	EROOM ALARMS ROOM 1 SETPOINTS INTERFACE CONTROL SENSORS	
ANT ALARMS				
Room Mode	Negative -			
Negative Low Alarm	0	inH20		
Negative High Alarm	0	inH20		
Positive Low Alarm	0	inH20		
Positive High Alarm	0	inH2O		
Low Alams	Disabled 🔹			
High Alarms	Disabled 🔹			
Disconnected IDTE OF	N			
		_		.::

Figure 12. Anteroom Alarms Screen

**Note**: The Anteroom Alarms menu will only appear if the Number of Rooms item on the Configure menu is set to "1 Room with Anteroom" or "2 Rooms with Anteroom".

(continued on next page)

# **Room 1 Setpoints**

🔞 PresSura Configuratio	n Software	-	C	12.0	
File Instrument H	elp				
READ 🔝 UPDATE	😑 Open File 🚦	Save To Fi	le		
ALARM CONFIG ROOM 1	ALARMS ROO	M 2 ALARMS	ANTEROOM ALARMS	ROOM 1 SETPOI	NTS INTERFACE CONTROL SENSORS
ROOM 1 SETPOINTS			- ROOM 1 CONTROL		
Negative Setpoint	0	CFM	Min Exhaust Position	0	%
Positive Setpoint	0	CFM	Max Exhaust Position	0	%
Neutral Type	Flow	•	Min Exhaust Flow	0	CFM
Neutral Setpoint	0	CFM	Max Exhaust Flow	0	CFM
Temp Heat	0	F	Min Supply Position	0 🌲	%
Temp Cool	0	F	Max Supply Position	0	%
Unoccupied Heat	0	F			
Unoccupied Cool	0	F			
Supply Temp Difference	0	F			
Heat Flow	0	CFM			
Cool Flow	0	CFM			
Unoccupied Min Flow	0	CFM			
Min Supply Flow	0	CFM			
Max Supply Flow	0	CFM			
DISCONNECTED IDLE OK					

Figure 13. Room 1 Setpoints Screen

**Note**: The Room 1 Setpoints menu will appear for Model RPM10 and RPM20 monitors but will not affect the instrument's function.

#### Interface

PresSura Configura	tion Software	- 6.4	
File Instrument	Help		
🕴 🥖 READ  💟 UPDAT	'E   📄 Open File 🔚 Save T	o File	
ALARM CONFIG ROO	M 1 ALARMS ROOM 2 ALAF	RMS ANTEROOM A	AARMS ROOM 1 SETPOINTS INTERFACE CONTROL SENSORS
NETWORK		Analog Output 1	
Communications Type	Bacnet -	Signal Type	None
LON	1		
Bacnet Address	1		
MAC ID	0		
Modbus Address	1	Analog Output 2	
Nurses Station Addr	1	Signal Type	None
Baud	Autobaud 🔻	Signal Bange	0
		Output Type	4 20Ma
		Analog Output 3	
		Signal Type	None
		Signal Range	
		Output Type	4 20Ma 👻
Disconnected IDLE O	N		

Figure 14. Interface Screen

### Control

PresSura Configuration Software	
File Instrument Help	
🕴 🥒 READ  UPDATE   🕒 Open Fi	ile 🔜 Save To File
ALARM CONFIG ROOM 1 ALARMS	ROOM 2 ALARMS ANTEROOM ALARMS ROOM 1 SETPOINTS INTERFACE CONTROL SENSORS
CONTROL Speed 10 2 % Senstivity 10 2 % Exh Kc Value 0 Sup Kc Value 0 Sup Kc Value 0 Sup Ti Value 0 Temp Ti 0 Temp Throttle 0	SUPPLY CONTROL DIRECTION
Disconnected IDLE OK	· · · · · · · · · · · · · · · · · · ·

Figure 15. Control Screen

**Note**: The Control menu will appear for Model RPM10 and RPM20 monitors but will not affect the instrument's function.

#### Sensors

😵, PresSura Configuration Software		288. S	
File Instrument Help			
🕴 🏉 READ  UPDATE 🔒 Open File 🔓	Save To File		
ALARM CONFIG   ROOM 1 ALARMS   ROO	M 2 ALARMS ANTEROOM AL	ARMS ROOM 1 SETPOINTS INTERFAC	E CONTROL SENSORS
Input 1 TSI Sensor Elevation 0	None	None	
	Input 5		
Input 2 None			
	None		
None			
			_
DISCONNECTED IDLE OK			

Figure 16. Sensors Screen

**Note**: Each Input of the Sensors item will populate based on the corresponding Input configurations on the Configure menu.

# Modifying Configuration Settings of an Attached TSI Room Controller or TSI Room Monitor Instrument

To modify the configuration of an attached instrument click the **update** button UPDATE or select **update** from the Instrument menu. Make sure that the attached instrument is powered with the main run screen active.

The software will automatically search the available Com Ports to find an attached TSI Room Controller or TSI Room Monitor instrument.

The software will update the current selected configuration, set points, interface, and control values from the software tabs to the instrument. The software will write the configuration settings one by one to the instrument until all settings have been updated or an error condition has arisen. Upon a successful completion of writing all of the configuration, set point, interface and control values to the instrument, the software will then read the configuration, set points, interface, and control settings of the instrument and re-populate the tabs of the Room configuration software dialog. The status bar will show **COMPLETE** and the progress bar will be filled and disappear upon completion of the update process.

Refer to the *Operation and Service Manual* for the Model RPM10 and RPM20 monitors or RPC30 controller for complete descriptions of the menu items.

#### Saving a Configuration File

To save a selected configuration or a configuration from an attached instrument click the **Save To File** button **Save** To File or select **Save** from the File menu.

A save as dialog will ask the user to browse to the save location and enter a file name to save the file as. The file can be saved to any location that has access to write a file and to any name. The user will need to manage the locations and names of the files created by the TSI Room configuration software.

Libraries	Documents     Pressura		▼ ▼ 3	earch Pressura
)rganize 🔻 New folde	er			•== •
🗘 Dropbox 🔶	Documents library PresSura			Arrange by: Folder
Documents	Name	Date modified	Туре	Size
J Music	📄 rpc30 2	8/21/2013 10:57 AM	CFG File	9 KB
E Pictures	Image: Image	8/21/2013 11:06 AM	CFG File	9 KB
😸 Videos 😑	📄 rpc30 5	8/21/2013 12:38 PM	CFG File	9 KB
	📄 rpc30 cmh	8/21/2013 3:04 PM	CFG File	9 KB
🖳 Computer	📄 rpc30 lps	8/21/2013 3:04 PM	CFG File	9 KB
🏭 Windows (C:)	📄 rpc30 test	8/21/2013 10:39 AM	CFG File	9 KB
🚽 druhland\$ (\\TSI:				
SALES (\\TSI\FILE				
🖵 GUEST (\\TSISVFI				
🚽 DATABASE (\\TS:				
File <u>n</u> ame:				
Save as type: cfg fil	es (*.cfg)			

Figure 17. Save Configuration File Dialog Box

Enter the file name to save the file as and select the **Save** Button. If no error messages appear, the file has been saved to the selected location.

#### Loading a Saved Configuration File

To Load a saved configuration from a saved configuration file, click the **Open File** button Copen File or select **Open** from the File menu.

An open file dialog will ask the user to browse to the location and select a valid Room configuration file to open.

		A DESCRIPTION OF THE OWNER.		
rganize 🔻 New fold	ler			
Favorites	Documents library PresSura			Arrange by: Folder 🔻
Downloads	Name	Date modified	Туре	Size
Kecent Places     Documents	📄 rpc30 2	8/21/2013 10:57 AM	CFG File	9 KB
Projects	📄 rpc30 4	8/21/2013 11:06 AM	CFG File	9 KB
Dronbox	rpc30 5 Type: CFG File	8/21/2013 12:38 PM	CFG File	9 KB
• Dropbox	rpc30 cr Size: 8.05 KB	013 11:06 AM 8/21/2013 3:04 PM	CFG File	9 KB
Libraries	rpc30 lps	8/21/2013 3:04 PM	CFG File	9 KB
Documents	📄 rpc30 test	8/21/2013 10:39 AM	CFG File	9 KB
J Music				
Pictures				
Videos				
Computer				
🏭 Windows (C:) 🛛 👻				
File	name: mc30.2		- cfo	files (* cfa)

#### Figure 18. Open Configuration File Dialog Box

Select the **Open** button, if no error messages appear, the configuration from the file has been loaded to the Room configuration software. Select the **Update** button to write the loaded configuration to an attached instrument.

#### Note

A set of configuration files that correspond to selections of the Config Wizard of the instrument are provided. These are stored in the Configuration Files directory of the installed location. The file names of these files include the number selection and a description that corresponds to the Config Wizard selections.

#### **Report Generator**

Access the report generator by either double clicking the TSI Room Report Generator desktop icon or the system program menu **TSI | TSI Room Report Generator** shortcut.

The report generator runs with Microsoft<sup>®</sup> Excel<sup>®</sup> spreadsheet software. Excel<sup>®</sup> macros must be enabled for the report generator to function properly.



Figure 19. Room Report Generator Screen

The initial screen of the Report Generator includes two buttons.

The Generate Report button generates an editable report of the configuration settings file that is supplied.

The About button shows information about the report generator macro.

#### Generating a Report from a Saved Configuration File

To Create a Report of a TSI Room controller or monitor instrument configuration:

- 1. Through the PresSura Configuration Software application, read the configuration of the Instrument. Next, save the configuration of the instrument to a file following the steps in the "Saving a Configuration File" section from above.
- 2. Open the TSI Report Generator.
- 3. Select the **Generate Report** button. An Open File dialog box is displayed. Browse to the location of the saved configuration file.
- 4. Select the configuration file that was previously saved and contains the configuration that is to be reported.

Copen		And Spot Service 181	and the set	×
Coo V Libraries	Documents PresSura		<b>▼</b> <sup>4</sup> 7	Search PresSura
Organize 👻 New folde	r			:= - 1 0
Microsoft Excel	Documents library PresSura			Arrange by: Folder 🔻
☆ Favorites	Name	Date modified	Туре	Size
Desktop	📄 грс30 2	8/21/2013 10:57 AM	CFG File	9 KB
Recent Places	📄 rpc30 4	8/21/2013 11:06 AM	CFG File	9 KB
Documents	📄 rpc30 5	8/21/2013 12:38 PM	CFG File	9 KB
Projects	📄 rpc30 cmh	8/21/2013 3:04 PM	CFG File	9 KB
Stropbox	📄 rpc30 lps	8/21/2013 3:04 PM	CFG File	9 KB
	Ipc30 test	8/21/2013 10:39 AM	CFG File	9 KB
🥽 Libraries				
Documents				
J Music				
Pictures				
Videos				
Ψ.				
File <u>n</u> a	ime:		-	Test Reports 👻
			Too <u>l</u> s 🔻	Open Cancel

Figure 20. Opening a Configuration File with the Report Generator

- 5. Select the **Open** button. This will load the configuration values into the report.
- 6. Next a Save Report dialog box is displayed. Browse to the location that you want to save the report file and enter a file name of the report file.

Save Report	Real Property lies			X
→ Network → TSISVFP02 → druhlandS → PresSura		✓ Search	PresSura	٩
Organize 🔻 New folder			1==	• 🔞
^ Name	Date modified	Туре	Size	
Mindows (C:)	No items match your sear	rch.		
SALES (\\TSI\FILE				
Network				
File name: TestRoomConfiguration				•
Save as type: Excel Workbook				-
Hide Folders		Too <u>l</u> s 🔻 Sav	re Ci	ancel

Figure 21. Saving a Configuration File with the Report Generator

- 7. Select the **Save** button to save the generated report file.
- The done message is displayed when the report file has been generated and saved (Figure 22). Select the **OK** button.
- 9. The report is ready to be completed with the specific customer information and notes from the installation. Enter the customer and Room location specifics in the fields provided and add the notes from the installation. Then save the report file (Figure 23).



Figure 22. Done Message

		1	02 -	TestRoom	Configuration	- Microso	oft Excel	· · · · ·		•	3
F	ile Home	Inse	t Page Layout	Formula:	; Data	Review	View Deve	eloper Add-Ins	۵ ()	- 6	23
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Figure 23. Room Configuration Report



10. The Report may easily be converted to a PDF file through the File tab within Excel<sup>®</sup> software.

Figure 24. Creating PDF through Microsoft Excel Software

# **Error Messages**

#### **USB Key Error**

The following message (Figure 25) is displayed if the application is started without that TSI USB Key attached.



Figure 25. Error Message if Application is Started without USB Key

### **Connection Error**

The following message (Figure 26) is displayed if the application cannot find an attached Room instrument.



#### Figure 26. Error Message if PresSura Room Monitor or Controller is not found

Check the following:

- The Instrument is attached to the system.
- The FTDI drivers are installed.
- The instrument is powered
- The main run screen is the active screen of the instrument.

#### Alarm Setting Errors

While updating the configuration settings to the instrument, a message similar to the following message may be displayed if an updated setting is in conflict with another setting. For example, if the Negative Low Alarm is set too close to the Negative Setpoint, the alarm message will be displayed as:

Communication Errors	x
ERROR WRITING: NegativeLowAlamValue setRoom1AlarmConfFloat=2026,-0.02SENT setroom1alarmconffloat=2026,-0.02 ERROR	*
	*
Close	<b>,</b>

Figure 27. Setpoint Conflict Error Message

Check the configuration values of the set point and alarm values that are referred to in the messages. The alarm values must be within a range based on the value of the set point.

To check the current alarm values click the **READ** button. Switch to the appropriate setpoints or alarm tab, and check the values that are displayed in the set point and alarm values. Correct these values as necessary, then click the **UPDATE** button.



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