GENESIS CONTROLLER FIRMWARE & CONFIGURATION

UPDATE INSTRUCTIONS







GENESIS CONTROLLER

FIRMWARE & CONFIGURATION UPDATE INSTRUCTIONS

These instructions cover requirements for firmware upldates for the Genesis Controller HMI. Heat trace system configuration files through TraceNet Sync are project-specific and are uploaded independently of Genesis firmware. (For more information, see TraceNet Sync Quick Start Guide, Form TEP0227).

The USB drive provided with the Genesis Controller panel will include firmware current as of the time of the panel's fabrication and testing. The USB may not include project specific "*.thrcfg" configuration files or "*.png" ISO/ illustration files if heat trace design was not part of Thermon's contract, or if engineering and design work was not approved prior to the panel's testing and shipment.

Genesis Firmware

The newest version of Genesis Controller software/firmware is available here: https://resources.thermon.com/software



UPDATING THE FIRMWARE



Mount the USB drive into the HMI.
Note: files cannot be located in a subdirectory.



2. Go to the Circuit Overview screen on the HMI.



3. Tap on the three bars (aka Hamburger Menu) at the top left of the screen for the Main Menu.

To Prepare a New USB Drive for the Genesis Controller

A drive with storage from 1 GB to 32 GB can be used. Insert the drive into a Windows computer and navigate to the drive using the File Explorer app. Right click on the drive's icon, and select "Format" from the menu. Select the FAT32 file system and format the drive. Configuration files must be placed on the root directory of the drive, not within subfolders.

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GENESIS CONTROLLER



4. Select "Admin Login" or "System" to bring up the Admin Login.

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		•		-						
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			-	CIR	CUIT	_				

5. Enter the password.

Note 1: The initial password is "ABC123". It is not case sensitive, and can be changed in the field. No record of the new password is maintained by Thermon.

Note 2: When admin-level security access is granted, a red border will appear around the perimeter of the HMI screen and remain for 5 minutes after log in is completed.)

≡		S	system		
					\leftarrow
SYST	TEM SOFTWARE	Version		Date	
Ins	talled	1.2.2		2019	-09-27 12:07
To a U	install new soft JSB drive.	ware, conne	ct		Connect USB Drive
SYS	TEM DEVICES				
	HMI 6006583		Software Ve Software Da	ersion	HMI_1.2.2 2019-09-18 21:15:23
1	DCM 43STCP:06:38:41		Firmware V Firmware Da	ersion ate	81bcd215.fa8c46bb 2019-09-09 18:41
21	DTM 37KAFP:21:66:25		Firmware V Firmware D	ersion ate	81bcd215.71602ad8 2019-09-11 12:02
81	IOM 256W6P:19:35:64		Firmware V Firmware Da	ersion ate	81bcd215.ec56f1c3 2019-09-11 12:02
					Refresh Device List
SYST	TEM MAINTENAN	CE			Open

 Select "System" from the Main Menu. The current firmware version is shown on the System screen. Select "Connect USB Drive".

Note: The HMI cannot read a file located in a subdirectory.

=		System		
			<	>
SYSTEM SOFT	WARE			
	Version	Dat	e	
Installed	1.2.2	201	19-09-27 12:07	
Select an up	idate package fi	rom	0.1	
the :	Select	an Update Package		
SYSTI	TraceNe	etGenesis_1.3.0.thrpk	9	
	TraceNe	etGenesis_1.2.1.thrpk	9	3
1	TraceNe	etGenesis_1.2.2.thrpk	9	•
21				3
	Cancel	Sele	ect Package	-
81 256W6P:1	9:35:64	Firmware Date	2019-09-11 12:02	
			Defeash Davies Li	at
0/0751414405			Refresti Deviće Li	51
SYSTEM MAIN	TENANCE		Open	

7. Identify and select the desired firmware package to be installed from the USB.

Note: The file will be named something similar to "Genesis Controller *.thrpkg").

			ADMIN MODE	
=			System	
				\leftarrow
SYS	TEM SOFTWARE	Version	Date	
Ins	talled	1.2.2	201	9-09-27 12:07
То	be installed	1.3.0	202	0-01-28 11:21
	Cancel			Update Now
SYS	TEM DEVICES			
	HMI 6006583		Software Version Software Date	HMI_1.2.2 2019-09-18 21:15:23
1	DCM 43STCP:06:38:41			0.0 %
21	DTM 37KAFP:21:66:25			0.0 %
81	IOM 256W6P:19:35:64			0.0 %
				Refresh Device List
SYST	EM MAINTENAN	CE		
				Open

8. Select "Update Now".

	ADMIN	MODE
	Sys	tem
		\leftarrow
SYSTEM SOFTWARE	Version	Date
Installed	1.2.2	2019-09-27 12:07
To be installed	1.3.0	2020-01-28 11:21
Cancel		Update Now
SYSTI	System	Update
The system of a sy	n will now be updat changes or interrupt cancel	ed. Do not make any hardware power to the panel.
81 IOM 256W6P:19:35:64		0.0 %
		Refresh Device List
SYSTEM MAINTENAM	ICE	Open

9. Reconfirm you are uploading the new firmware, and select "Update Now".

FIRMWARE & CONFIGURATION UPDATE INSTRUCTIONS

_			DMIN MODE	
≡		5	System	
				\leftarrow
SYS.	TEM SOFTWARE	Version	Date	
Ins	talled	1.2.2	2019	-09-27 12:07
То	be installed	1.3.0	2020	-01-28 11:21
			47.2 %	
SYS.	TEM DEVICES			
	HMI 6006583		Software Version Software Date	HMI_1.2.2 2019-09-18 21:15:23
1	DCM 43STCP:06:38:41			100.0 %
21	DTM 37KAFP:21:66:25			66.7 %
81	IOM 256W6P:19:35:64			0.0 %
				Refresh Device List
SYS	TEM MAINTENAN	CE		Open

 The system will start the installation of the new firmware/software for all Genesis Modules, including the HMI, DCM(s), DTM(s), and IOM(s).

Verifying install package	Rebooting in 3 Seconds Success
	•
Bootleader Version: 2.9.21054 Bootstrap Version: 2.9.23015 Part Number: 72090125 Serial Number: 5293709	Bootloader Version: 2.9.21054 Bootstrap Version: 2.9.23015 Part Number: 7820025 Serial Number: 5233709

- 11. The Genesis Controller HMI will verify the installation package.
- 12. Once complete, the Genesis Controller HMI reboots itself automatically.

_		A	DMIN MODE		
≡		s	System		
					\leftarrow
SYS	TEM SOFTWARE	Version		Date	
Ins	talled	1.3.0		2020	0-01-28 11:21
To a L	install new soft ISB drive.	ware, conne	ect		Connect USB Drive
SYS.	TEM DEVICES				
	HMI 6006583		Software V Software Da	ersion ate	HMI_1.3.0_RC8 2020-01-28 17:05:58
1	DCM 43STCP:06:38:41		Firmware V Firmware D	ersion ate	d4d48de8.dd83cf1d 2019-12-19 19:06
21	DTM 37KAFP:21:66:25		Firmware V Firmware D	ersion ate	d4d48de8.09c09cc1 2019-10-10 18:08
81	IOM 256W6P:19:35:64		Firmware V Firmware D	ersion ate	d4d48de8.de5e18ad 2019-10-10 18:10
					Refresh Device List
SYS	TEM MAINTENANC	E			Open

13. The System screen will show the latest firmware installed on each component.

Note: There will often be multiple DCM and DTM components installed on a Genesis Controller panel. Each component will be displayed, and each should display the same firmware for the system's proper operation, i.e. the most recent being updated.

GENESIS CONTROLLER

UPDATING (OR BACKING UP) THE CONFIGURATION



Mount the USB drive into the HMI.
Note: files cannot be located in a subdirectory.



2. Go to the Circuit Overview screen on the HMI.



4. Select "Admin Login" or "System" to bring up the Admin Login.



- 5. Enter the password.
 - Note I: The initial password is "ABC123". It is not case sensitive, and can be changed in the field. No record of the new password is maintained by Thermon.

Note 2: When admin-level security access is granted, a red border will appear around the perimeter of the HMI screen and remain for 5 minutes after log in is completed.)



3. Tap on the three bars (aka Hamburger Menu) at the top left of the screen for the Main Menu.

Import/Export	
	6
IMPORT SYSTEM CONFIGURATION	
Import a system configuration package from the USB drive.	Import Configuration
EXPORT SYSTEM CONFIGURATION	
Export the current system configuration to the USB drive.	Export Configuration
EXPORT CIRCUIT HISTORY	
Export circuit history to the USB drive.	Export History

3. Select "Import/Export" from the Main Menu. Select "Export Configuration" to back up the current Genesis Controller system configuration.

FIRMWARE & CONFIGURATION UPDATE INSTRUCTIONS

_	ADMIN MODE	
≡	Import/Export	
		\leftarrow
IMPORT SYSTI	EM CONFIGURATION	
Import a system the USB drive.	m configuration package from	Import Configuration
EXPORT SYSTI	EM CONFIGURATION	
Export the curr	ent system configuration to the	()
USB d	Configuration Expo	rt 📃
EXPO	Com_20200203_1552.1f	

	import/Export	
IMPORT SYSTE	EM CONFIGURATION	
Import a syster the USB drive.	n configuration package from	Import Configuration
EXPORT SYSTE	EM CONFIGURATION	
Expor	Select a Configuration P	Package
USB d	Conf_20200727_0750.	thrcfg
	Conf_20201113_0913.	thrcfg
EXPO	evenik.thrcfg	-
Expor		
	Cancel	elect Package
-		

 Select "Import Configuration" from the Import/Export screen to load a new configuration or restore a configuration from backup.

Note: For more information on creating a .thrpkg configuration file, see TraceNet Sync Quick Start Guide, Form TEP0227.



6. After the Genesis Controller loads the configuration file successfully, it will reboot and return to the Circuit Overview screen.

4. The configuration export process completes successfully a confirmation message with the backup filename is shown. Click on OK to continue.



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