

## 1848ETC-HST Allen-Bradley Historian Product User Guide

Revision: 1.4.0



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## **Overview**

RTA's A-B PLC Historian is the easiest way to log data from A-B PLCs. It is uniquely designed to store data in closed OT networks. The Historian allows control engineers and operators to gather time series logs of data from their A-B PLCs. These data sets allow you to increase efficiency and avoid unnecessary downtime.



Tools and documents available online: <u>https://www.rtautomation.com/historian-support/</u>.

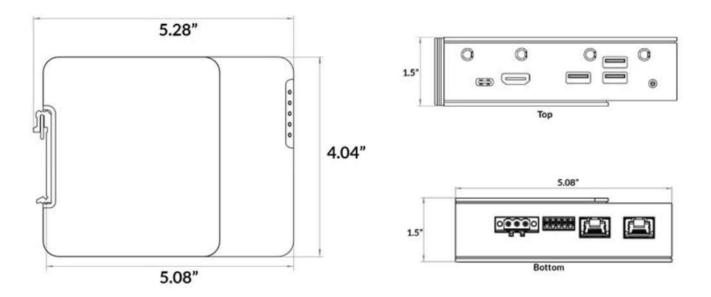
If at any time you need further assistance do not hesitate to call Real Time Automation support.

Support Hours are Monday-Friday 8am-5pm CST

Toll free: 800-249-1612 Email: support@rtautomation.com



## Hardware



## **Powering the Gateway**

- The gateway requires a 8-24 VDC power source Red = (+) Black = (-).
  - The unit draws 100mA @ 12VDC
  - The unit draws 50mA @24VDC



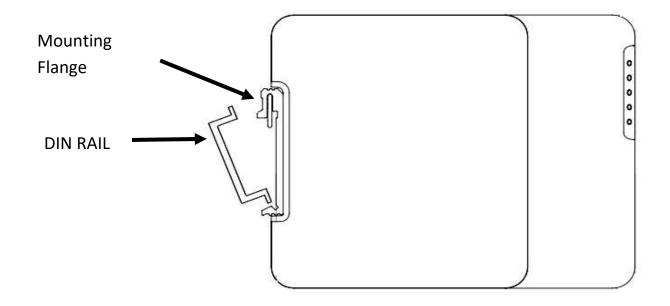


## Mounting with a DIN Rail

#### Installing

Follow these steps to install your unit.

- 1) Mount your DIN Rail.
- 2) Hook the top mounting flange under the DIN Rail.
- 3) While pressing the 1848ETC-HST against the rail, press up to engage the spring loaded lower clip and rotate the unit parallel to the DIN Rail.
- 4) Release upward pressure.



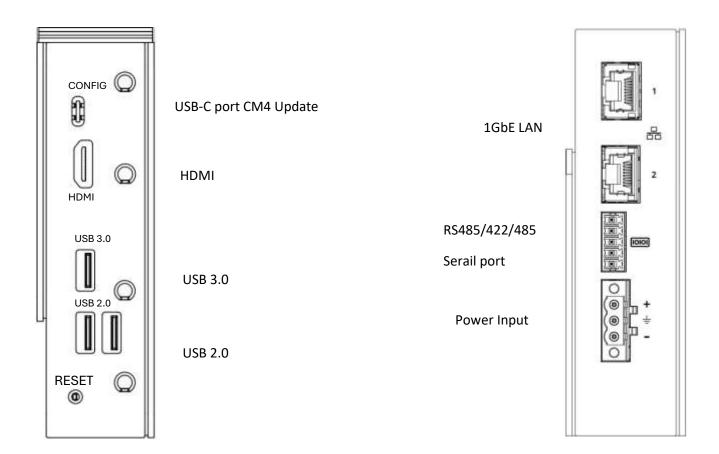
#### Removing

Follow these steps to remove your unit.

- 1) Press up on the unit to engage the spring loaded lower clip.
- 2) Swing top of the unit away from the DIN rail

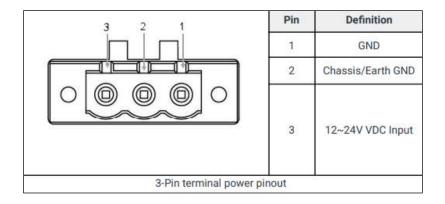


## **Port Connections**





## **3-Pin Power Connector**



## **5-Pin COM Connector**

	Pin	RS-232	RS-422	RS-485
	1	GND	GND	GND
	2	NC	TX-	TX-/RX-
[ZZZZZZ]	3	NC	RX-	NC
1 2 3 4 5	4	RX	TX+	TX+/RX+
	5	TX	RX+	NC
COM termin	nal pinout			2



## **Accessing the Main Page**

The following steps will help you access the browser-based configuration of the Historian. By default, the historian is at the static IP of 192.168.0.100/255.255.255.0 on port 1 and DHCP on port 2.

1) Navigate to <a href="https://www.rtautomation.com/historian-support/">https://www.rtautomation.com/historian-support/</a> and download Device Discovery.

	Sear	rch Again	
elect a Unit			
IP Address	Eth0 Mac	Eth1 Mac	Serial Number
10.10.1.104		RTConnectPro Host	
10.10.1.97	d8:3a:dd:64:53:9f	84:8b:cd:4a:be:80	10000007ecbe990
10.10.1.108	d8:3a:dd:93:ab:2c	84:8b:cd:4a:8c:a4	10000003903be9e
10.10.1.31	d8:3a:dd:64:54:13	84:8b:cd:4a:be:8b	100000000af3c4e
10.10.1.101	d8:3a:dd:93:ab:e2	84:8b:cd:4a:8c:a8	1000000ab4691a6
192.168.0.100	d8:3a:dd:93:ab:e2	84:8b:cd:4a:8c:a8	1000000ab4691a6

- 1) Set your computer to be on the 192.168.0.X/255.255.255.0 network and ensure you are connected to port 1.
- 2) Run the Device Discovery.exe program.
- 3) Find unit under "Select a Unit".
  - a. If you do not see the gateway in this tool, check that your computer is on the 192.168.0.X/255.255.255.0 network.
  - b. Relaunch the Device Discovery tool to see if gateway can be discovered now.
- 4) Click Launch Webpage. The Home page will appear.



## **Home Page**

The main page is where important information about your Historian and its connections are displayed.

#### Navigation (green box below):

You can easily navigate between pages (Home, Device settings, Protocol Settings, Store and Forward and Other pages) using the buttons on the left hand side.

Device Status (yellow bow below):

#### **Running Mode:**

- Protocol communications are enabled
- You can make changes during Running mode. Once changes are applied then you'll have to Restart the Historian for changes to be applied.

#### **Configuration Mode:**

- Protocol communication is stopped and no data is transmitted
- Configuration is allowed

R	TA HISTOR	IB48ETC-HST	NODE INTERIOR	VSR admin
		Home		
â		Allen-Bradley PLC Status		
-	Devic Setting - *	The Linear John Crief		
	Hossial Gerships	Read Perguents: 0 Read Response: 0 Read Strate: 0 Camee-Seat Robin: Net Convented		
	Date And Torward An Accord Differences Record Directory	MQTT Status rep_dieg.2		
٠	- Materia	Sacrosofial Publiches: 0 Connection Status Net Connected		
	linge Nystern Sattlings Manager Still Condom	Historian Status		
		Saccreativi Publiches 0 Parlier (Publiches 0 Nacreative of Theorem Recombs 0 Tabland the same of Change Benevice 1 Tabland the same of Change Benevice 1		

Default setting is set to DHCP. If DHCP fails, default IP address is 169.254.x.y



## **Device Settings**

#### **Network**

The network configuration area is where you assign the IP address and other network parameters.

If you are changing the IP address of the Historian, the change will not take effect until the unit has been rebooted. After the reboot, you must enter the new IP address in the the URL.

Network Time Protocol (NTP) Server	time.google.com	A reboot is required for NTP server changes to take effect
Vired Connection 1 Wired Conne	ction 2	
MAC Address	d8:3a:dd:93:ab:e2	
Connection Type	static	•
IP Address	192.168.1.23	Valid IPv4 address
Netmask	255.255.255.0	Valid IPv4 network mask
Gateway		Valid IPv4 address (optional)
DNS		Single-space separated list of IPv4 addresses (optional)

Location	Existing Value	New Value	
Device Config / Interfaces / Ethernet Interface Config / Ip Address	192.168.1.69	192.168.1.23	,
			,



## **Protocol Settings**

## Allen-Bradley PLCs

The Historian can automatically discover up to 10 Allen-Bradly PLCs.



Click Add New if you want manually add a PLC that is on the network.

Click Add New From Discovery and you will see the available PLCs on your network.

Inter	face to Search Wire	ed connection 1 •						
Spi	arch in all columns.							
	IF Address	Product Name	Vendor ID	Product Code	Revision	Serial Number	State	PLC Type
8	192.168.1.106	1769-LJ4ER-QB18/A LOGUS324ER	э.	149	32.11	1882611172	operational	Compaction
	192,168.1.107	1763-L16888 8/14.00	4	185	2.14	2627806938	nonexistent	MicroLagix

Select the PLC you wish to discover and click Add PLC.

Allen-Bradley PLC	S ADD NEW ADD NEY	W FROM DISCOVERY		
1719-624ER-QB1 #				
Resource Name	1769-124ER-0818A_LOG1.	Must contain only letters, numbers, $\hat{\gamma}^{i}$ and $\hat{\gamma}^{i}_{i}$		
PEC Type	Compactiogia •			
Connected Comine	0			
IP Address	192.168.1.106	Valid IPv4 address		
Slot	<b>W</b>	0 - 49		
Connection Attempt Timeout (ms)	250	100 - 60000		
Inter-Connection Attempt Delay (mil)	1000	1000 - 40000		
Response Timeout (ms)	500	100 - 60000		
Inter Message Delay (ms)	0	0 - 60030		
Delay Between Scan Loops (ms)	500	0+60000		
Tags ADD TAG ADD TAG FR	OM BROWSE			
Tag/File Name	0		Delete	
	No	records available		



#### Allen-Bradly PLC configuration

- 1) **Resource Name:** Internal refernace to the Historian.
- 2) **PLC Type:** Select the PLC type that matches the IP address you entered to connect with. The Unknow option is any generic EIP device that is discoverable.
- 3) **Slot:** Enter in the slot that the controller is in. For Embedded Ethernet, enter in a value of 0. All MicroLogix,SLC, and PLC5E should be set to 0.
- **4) Connection Attempt Timeout (ms):** How long to wait for PLC to accept the connection before timing out the attempt.
- 5) Inter-Connection Attempt Delay (ms): Delay between failed connection attempts
- 6) **Response Timeout (ms):** Enter the amount of time the gateway should wait before a timeout is issued for a read/write request
- 7) Inter-Message Delay (ms): The Inter-Message Delay is a forced delay for each request the gateway sends to the PLC.
  - a. a. This setting will affect the speed at which a message is delivered and the amount of traffic the gateway adds to the network.
  - b. b. If set to 0, the gateway will communicate as fast as possible to the PLC and generate the most traffic.
  - c. c. In applications with a heavy network, it is recommended that you increase this delay to limit network traffic.
- 8) Delay Between Scan Loops (ms): Enter the length of time to delay between scan loops.



Tags

Tags	ADD TAG	ADD TAG FROM BROWSE		
Tag/File	Name	ID.	Delete	
		No records available		;
SAVE ALL	CHANGES	DISCARD ALL CHANGES		

When Add Tag is selected, you enter in your Tag/File Name. Click the Select Data Point.

Tags add tag add tag from browse		
Tag/File Name	ID	Delete
PLC_Tag_Temp	SELECT DATA POINT	DELETE

You can give the tag a more discriptive meaning. For example, PLC\_Tag\_Temp is defined in the PLC, but it needs more context. Within the Historian, the tag can be given an "ID" or "description". In this case the tag is now identified as a referance of "Temperature for cooler" with a floating point data type. If you have a tag with an array then enter in the length in accordance the to size of the Tag/File.

elect a Data Point						
Choose Existing Create New						
ID	Name	Туре		Length		
3	Temperature for cooler	ficat32	•	1		

When Add Tag From Browse is selected, choose your PLC then click Add PLC.

Tags add tag Add tag from browse		
Tag/File Name	ID	Delete
new tag	SELECT DATA POINT	DELETE

# NOTE: Browsing File Names for Micrologix, SLC and PLC5 is not currently supported.



Add Network PLCs from	n Discovery							3
Interface to Search Win	d connection 1							
Search in all columns.	Product Name	Vando: ID	Product Code	Revision	Serial Number	State	FLC Type	
D 192.168.1.106	1789-LMER-OB1N/A LOODS324ER	1	149	82.11	1002611172	operational	CompactLogie	
			ADD PU	CANCEL				

Once your tags are discovered, select which ones the Historian can monitor, click Add Tags.

. 0	A2PLC_Ford (STRING)	1
	Bt_Gen_Solar1_Power_uptime (0INT)	
0	08_Gen_Solar2_Power_sptime (DINT)	
	88, Gen, Sciar3, Power, uptime (CHNT)	
	BB_Generator_Foel_Level (DINT)	
	88_Generator_OR_Level (D(NT)	
	Bit_Tast (INT)	
	Building_A_Energy_used (DINT)	
•	CR_Compact2_460ETC (STRING)	
•	Counter1	
60	Counter2	
сü	Counted	
• 11	Cnurted	
60	Counter5	
•	Demo, Data (STRING)	
• U	Demo_GW2PLC (STRING)	
еĤ	Damo: PLC2GW (ST8(NG)	

All tags that were selected will be displayed shown below. Once completed click **Save All Changes** and **Save Application**, click **OK**.

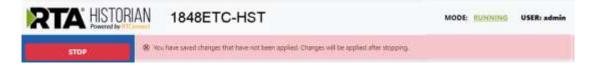
Tag/File Name	10	Delete
88_Gen_Solar3_Power_uptime	BB_Gen_Solar3_Power_uptime (TAG ID: 2)	DELETE
88_Gen_Solar2_Power_uptime	BB_Gen_Solar2_Power_uptime (TAG ID: 3)	DELETE
B8_Gen_Solar1_Power_uptime	BB_Gen_Solar1_Power_uptime (TAG ID: 4)	DELETE
A2PLC_Port0	A2PEC_Port0 (TAG ID: 5)	DELETE



Location	Existing Value	New Value
App / Data Table / BB_Gen_Solar3_Power_uptime (ID: 2)		Created
App / Data Table / BB_Gen_Solar2_Power_uptime (ID: 3)		Created
App / Data Table / 88_Gen_Solar1_Power_uptime (ID: 4)		Created
App / Data Table / A2PLC_Point0 (ID: 5)		Created
App / Resources / 1769-L24ER- QB18A, LOGIX5324ER, 2 (ID: 2)		Created

Apply changes	×
Applying changes requires d	evice to stop momentarily.
Would you like to stop and start t	the device?
RESTART	CANCEL

If the Historian Mode is in Running, then you'll have to Stop and Start for the changes to take affect.





## **MQTT Clients**

MQTT can have up to 10 connection.



Click Add New to add a MQTT Client.

#### **MQTT Configuration**

- 1) **Resource Name:** Enter the name to be used when referring to this MQTT Client.
- 2) **Broker URL:** Enter the unique MQTT broker Ipaddress/URL.
- 3) **Broker Port:** Enter the TCP port for the MQTT broker to open the connection.
- 4) **Client ID:** Enter the Client ID to be use when connecting to the broker.
- 5) Username and Password: Enter if authentication to the MQTT broker is required.
- 6) **QOS Level:** Select the QOS Level MQTT Messages should be published with.
- 7) **Timeout (ms):**Enter the amount of time in milliseconds to wait before closing the connection if communication with the broker is lost.

Enable			
Resource Name	mqtt_client_1	м	ust contain only letters, numbers, $\dot{\gamma}^{i}$ and $\dot{\gamma}^{i}_{\omega}$
Broker URL	tcp://127.0.0.1	Pt	efix + hostname (do not specify a port)
Sroker Port	1863	0	- 65535
Client ID	Ita		
Jsername.			
Password			
205 Level	1	• 0	(at most once). 1 (at least once). 2 (exactly once
limeout (ms)	1000	10	0 - 60000



## **Store and Forward**

## **Record Definitions**

The Record Definitions page is used to define one or more point serializer. A point serializer enables the building of a JSON formatted payload to be stored or published to MQTT.

Click the **Add New** button next to Record Definitions to add a new Record Definition.



- 1) Resource Name: Enter the resource name to be used when referencing this Record Definition.
- 2) Timestamp Format: Select the format for the timestamp in the MQTT JSON payload.
  - a. linux\_seconds: Seconds since Jan-1<sup>st</sup>-1970
  - **b. linux\_milliseconds:** Milliseconds since Jan-1<sup>st</sup>-1970
- **3) Timestamp Name:** Enter the name/label for the timestamp in the MQTT JSON payload.
- 4) Sequence Name: Enter the name/label for the sequence number in the MQTT JSON payload.

oint_serializer_3 x			
Resource Name	point_serializer_3	Must contain only letters, numbers, $\dot{\gamma}$ and $\dot{\gamma}$	
Timestamp Format	linux_seconds	•	
Timestamp Name	timestamp		
Sequence Name	sequence		
Data Point Fields 🚦	ADD FIELDS		
ID		Delete	



- 5) Click the Add Fields button to add PLC tags to the MQTT JSON Payload. The Select One or More Data Points Window should pop up. The table should be populated with tags from the configured PLCs.
- 6) Select the tags to add to the JSON payload by clicking the checkbox on the left and clicking okay.

Selec	ct One or More Data Point	5			
	ID	Name	Туре	Length	Va
	2	BB_Gen_Solar3_Power_uptime	int32	1	
	3	BB_Gen_Solar2_Power_uptime	int32	1	
	4	BB_Gen_Solar1_Power_uptime	int32	1	
	5	A2PLC_Port0	string	82	

### **Record Handling**

The Record Handling page is used to configure how often data is sampled as well as how it will be stored locally or forwarded to MQTT.

Click the Add New button next to Historians to add a new Historian configuration.



#### Configuration

- 1) **Resource Name:** Enter the name used when referring to this Historian.
- 2) Trigger Type:
  - a. None: Records will be recorded cyclically based on the sampling rate.
  - **b. Pointchange:** Records will only be recorded when there is a change of value in the configured trigger point.
- 3) Sampling Rate (ms): Enter how long to wait between sampling data to log to the Historian in milliseconds.
- 4) Forwarding Rate (ms): Enter how long to delay between cyclic publishes to the MQTT Broker in milliseconds.



- **5)** Number of Records to Forward: Enter the maximum number of records that can be forwarded to MQTT in one publish.
- 6) Catch-Up Delay (ms): The forwarding rate to use after a disconnect has occurred to catch up to the most recent records. This should always be lower than the Forwarding Rate.
- 7) Mode: Forward, Forward and Local Storage and Local Storage:
  - **a.** Forward: Forward data to MQTT without storing any data locally on the Historian.
  - **b.** Forward and Local Storage: Forward data to MQTT and store the data locally on the Historian.
  - c. Local Storage Store the record locally only, do not forward to MQTT.
- 8) Delete Record after Forwarding: Select whether to delete record from local storage after it has been forwarded to MQTT.

ne And Forward Durage				
Annual States		Must contain only letters, numbers, 17 and	(U)	
rane				
100		100 - 360000 (1 hout)		
500		100 - 8640000 (? dvy)		
30		Q - 10000		
1000		100 - 360000 (1 Innar)		
Farnwell And Store				
Record Definition		MOTT Chart	Debite	
	rume 100 500 30 Forward And Store	100 500 500 70 1000 Farrword And Store	Immune 1 Must contain only letters, numbers, '' and ''   Intri 100   100 100 - 360000 (I bour)   100 100 - 360000 (I bour)   100 100 - 8649000 (I bour)   100 100 - 360000 (I bour)   Forward And Store •	Must contain only letters, rounders, "," and ","   100

7) Click the Add Record button to add a record which will be used to associate an MQTT topic, a Record Definition, and an MQTT client.

Records ADD RECORD			
Тори	Record Definition	MQTT Client	Delete
	Select Record Definition	Select MQTT Client •	DELETE

- 8) **Topic:** Enter the MQTT topic the record should be published to.
- **9) Record Definition:** Use the dropdown to select the Record Definition to be stored or forwarded to MQTT.



**10) MQTT Client:** Select the MQTT Client to be used when publishing data to MQTT.

#### Local Storage

The local storage tab is used to define the parameters for data that will be stored locally on the Historian to be retrieved via direct download or USB.

historian_5 x	
Configuration Local Storage S	tore And Forward Storage
Age Off Method	oldest 🔻
After Records	10000 <b>0 - 2147483648</b>
Age Off Interval (s)	720 0 - 8640000 (100 days)
Remove Records	500 <b>0 - 2147483648</b>
DOWNLOAD DOWNLOAD TO	USB Save changes to download

- 1) Age Off Method:
  - **a. Oldest:** When set to oldest, the oldest records will be aged off and removed from the record database.
  - **b.** Newest: When set to newest, the newest records will be aged off and removed from the record database.
- 2) After Records: The maximum number of records that can be stored by this Historian before records start getting aged off. If there are more records than the configured number, the Historian will age off the number of records configured in the Remove Records configuration until there is fewer records than the configured number.
- 3) Age Off Interval (s): The interval at which the Historian will age off records. Every time this interval is hit, the Historian will age off the number of records defined in the Remove Records configuration.
- **4) Remove Records:** The number of records that will be aged off when hitting the age off interval or max number of records.
- 5) Download: Allows the user to download the currently stored records as a database, CSV, or PDF directly to their PC.



6) Download to USB: Allows the user to download the currently stored records as a database, CSV, or PDF to a USB Storage Device plugged into the Historian device.

#### Store And Forward Storage

The store and forward tab is used to define the parameters for data that will be forwarded to MQTT and stored locally temporarily if no MQTT connection is available.

historian_5 x		
Configuration Local Storage	Store And Forward Storage	
Age Off Method	oldest	v
After Records	10000	0 - 2147483648
Age Off Interval (s)	720	0 - 8640000 (100 days)
Remove Records	500	0 - 2147483648

- 1) Age Off Method:
  - **a. Oldest:** When set to oldest, the oldest records will be aged off and removed from the record database.
  - **b.** Newest: When set to newest, the newest records will be aged off and removed from the record database.
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- **3)** Age Off Interval (s): The interval at which the Historian will age off records. Every time this interval is hit, the Historian will age off the number of records defined in the Remove Records configuration.
- **4) Remove Records:** The number of records that will be aged off when hitting the age off interval or max number of records.



## **Utilities**

#### Validation

The validation page is used to easily view any errors in the configuration. If the Save Changes button is greyed out and say "CHANGES INVALID: SEE VALIDATION" come to this page to easily review any errors that may be preventing the configuration from saving and running.

Validation Validation successful	Validation successful		
Severity	Location	Message	
Information	Application	Validation successful	
Information	Network	Validation successful	

#### Logs

The logs page can be used to see diagnostic messages while the Historian is running. These messages include items such as:

- **1) Errors:** Failure to connect to a configured PLC or MQTT Broker.
- **2) Information:** App information such as process starting or stopping, records being aged off, data successfully being published to MQTT, etc.

Load previous 5 messages				
Timestamp	Level	Message		
8-2-2024 11:28:17:377 AM	Information	Historian: rta_engine_moduleinfo_readdir; ib libpabo-inqit3a.so		
8-2-2024 11:28:17:378 AM	Information	Historian rta_engine_moduleinfo_readdir; lib librta-etc-discovery.so		
8-2-2024 11:28:17.378 AM	information	Historian: rta_angine_moduleinfo_readdir; 3b test-discovery-library-interface		
5-2-2024 11/28/17.378 AM	information	Historian rta_engine_moduleinfo_readdir; lib libz.zo		
8-2-2024 11:28:17.378 AM	Information	Historian rtajengine_moduleinfo_readdin 5b fibrta_pointserializer_user_jaon.so		
		Jump to latest		



#### System Settings

System S	ettings	
Configuration	File VALIDATION	SUCCESSFUL
IMPORT CONFIG	EXPORT CONFIG	
Reset		
RESET TO FACTORY	DEFAULTS	
System		
REBOOT SYSTEM	UPGIADE STOTEM	Checking for updates

- 1) Import Config: Import an existing configuration
  - **a. Import Application:** Import only application configurations, does not affect network configurations
  - **b. Import Network:** Import only network configurations, does not affect application configurations.
  - c. Import All: Import both Network and Application configurations.
- 2) Export Config: Saves the configuration to a file called User\_Config.json.
- **3) Reset to Factory Defaults:** Reverts the Historian to shipped defaults, this will cause the loss of all configurations except network settings.
- 4) **Reboot System:** Shuts down and then reboots the Historian device.
- **5) Upgrade System:** When connected to the internet, the Historian is able to check for updates and can be updated to the latest version if a newer version is available by pressing the Upgrade System button. When updates are available the revision numbers will be listed next to the Upgrade System button.



#### Manage USB Devices

The Manage USB Devices page is used to scan for, view, and safely eject connect USB storage devices.

Usb Manager	
RESCAN	
	No records available