

## XS Controller - USB Functions

The XS is capable of transferring information using a FAT formatted USB drive. The XS has three main USB functions as detailed in the following sections:

1. Exporting log data
2. Upgrading firmware
3. Cloning user settings for other XS units

### Getting Started

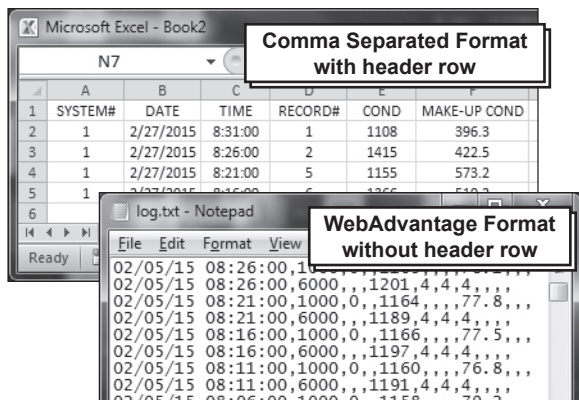
With the controller powered up, plug the USB drive into the XS USB port. The USB DRIVE DETECTED pop-up window will appear.

#### Notes:

- You may be required to enter a password.
- USB drives must be FAT formatted.
- Not all customized names will be saved.

### Exporting Log Data

History from an XS controller can be saved to a USB drive in one of two file formats: WebAdvantage or generic comma separated (default).

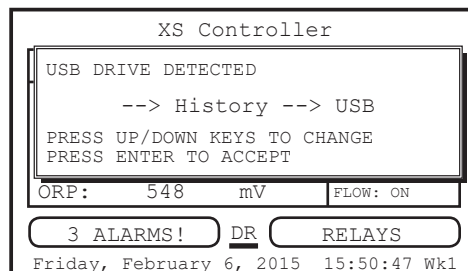


Sample Log Data "log.txt" files

To change formats, see Step 2.

### Step 1:

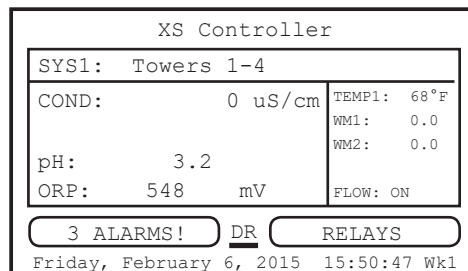
To transfer the contents of the XS history logs to the USB drive, select → **History** → **USB** by using the Arrow buttons. Then press ENTER.



Note: Status will be displayed on the screen to show the percent completed of each log record type. Once the log is completely stored, the pop-up window will close. If only a small amount of data is available the screen may disappear quickly. The USB drive will now contain a file name: example "LOG\_AB-1234.TXT". The AB-1234 will be the unit's serial number.

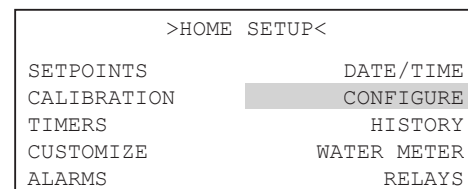
### Step 2: Changing the File Format

This is the **RUN** Screen.



### Step 3:

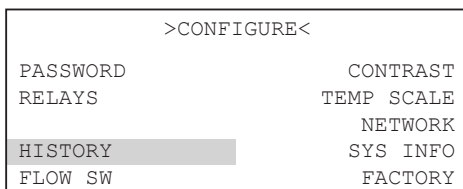
Push the **SET UP RUN** button to get this screen. From here push **CONFIGURE** (Button 7) to go to the next screen.



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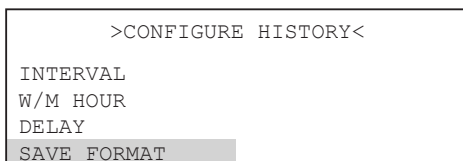
### Step 4:

This is the Configure Screen. From here push **HISTORY** (Button 4) to go to the next screen.



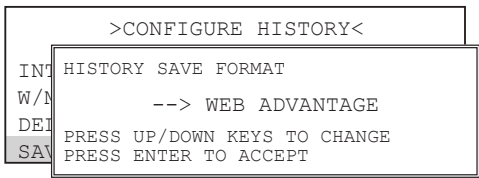
### Step 5:

This is the Configure History Screen. From here push **SAVE FORMAT** (Button 4) to go to the next screen.



### Step 6:

Set the value of the **HISTORY SAVE FORMAT** by using the arrow keys. Then press **ENTER** to confirm and go to the previous screen.



**Note:** WebAdvantage format is required for uploading history to WebAdvantage for cloud storage and graphing. Change to Comma Separated format if using a database software like Excel.

Press **SET UP RUN** to return to the RUN screen.

### Step 7:

Remove USB drive and re-insert to initiate the USB DRIVE DETECTED pop-up window. Repeat Step 1 from section *Exporting Log Data*.

### Uploading data to WebAdvantage

If the controller does not have a communications card you can purchase WEBADV-XSCLOUD storage of your unit's history. This one-time fee per controller allows the XS history to be stored on WebAdvantage for using custom graphing and multiple user internet access. Contact Advantage Controls or [support@advantagecontrols.com](mailto:support@advantagecontrols.com) with your unit's serial number to learn more.

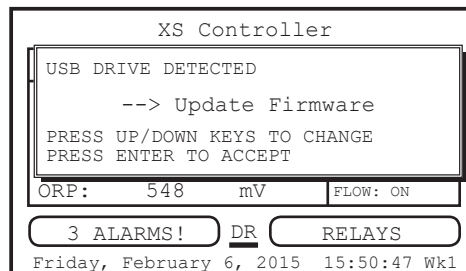
After an XS is set-up for cloud storage, follow these steps:

1. Login to the secure web server: <https://webadvantage.online>
2. Locate the controller you have data for and click **Reports**
3. Click **History Upload** on the left
4. Click **Choose File** and select the file you exported.
5. Click **Submit** and the data will upload
6. You will now be able to view reports and history data once completed.

### Upgrading Firmware

To upgrade the firmware on your XS, copy the updated software version to a USB drive. The file name should be "firmware.bin" With the controller powered up, plug the USB drive into the XS USB port. The USB DRIVE DETECTED pop-up window will appear. If a password is in the unit, the USB will ask for it.

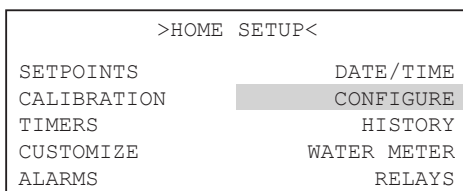
Select **--> Update Firmware** by using the Arrow buttons. Then press **ENTER**.



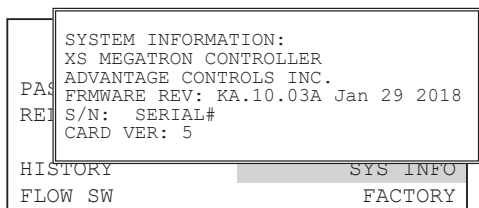
**Warning:** Do not remove power or USB during updating. It may take a few minutes to complete. Once the first update is complete, power off and remove USB. Wait 20-30 seconds to power back on and reinstall the USB after the RUN screen appears and load the firmware a second time.

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After second update is complete, power down and remove USB. Power back on (after 20 seconds) and go to the Configure menu.



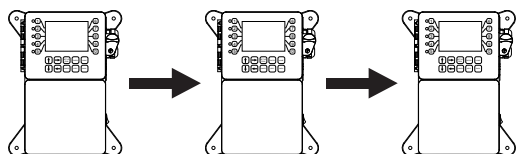
From here push **SYS INFO** (Button 9) and confirm that the unit now has the new version and that the CARD version is also current (consult factory for current).



**Warning:** If the card revision has not updated to the newer version, the sensor function will not work correctly. A few power cycles may be needed to get the system card updated. The mA input and communications card (if present) may need to be removed with the power off and a power cycle performed. Once the system card version is updated, power back down and reinstall the mA and communications cards.

### Cloning User Settings for other XS Units

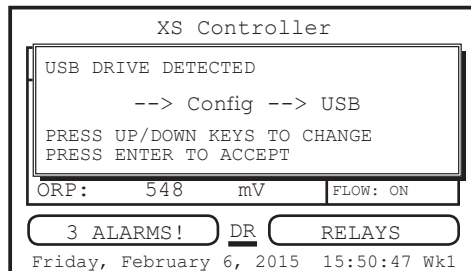
The XS has the ability to copy the User Settings from one XS to another. This process is referred to as cloning.



#### Step 1:

With the controller powered up, plug the USB drive into the XS USB port. The USB DRIVE DETECTED

pop-up window will appear. Select → **Config** → **USB** (Config to USB) by using the Arrow buttons. Then press ENTER.



The User settings will be saved to the USB drive under the file name "CONFIG.BIN". The pop-up window will close when the copy is completed.

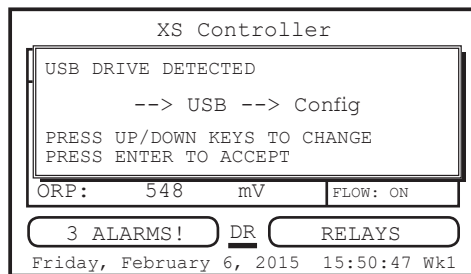
#### Step 2:

Plug the USB drive into the XS that you would like to copy the User Settings to. The USB DRIVE DETECTED pop-up window will appear.

Select → **USB** → **Config** (USB to Config) by using the Arrow buttons. Then press ENTER.



**CAUTION:** Do not choose → Config → USB again or you will save over your USB contained CONFIG.BIN file.



The User Data will be loaded into the XS from the USB drive. Once the pop-up window closes, cloning has been completed.

#### Notes:

- Not all customized names will be cloned.
- If you have trouble reading clone files, insure that the XS you are cloning has current firmware.