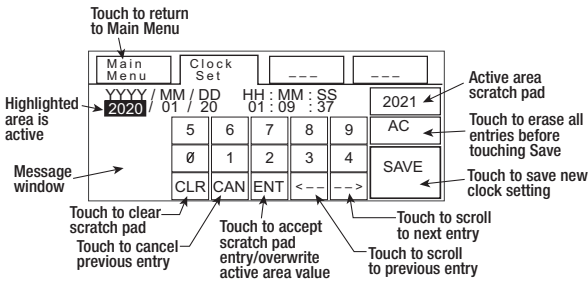


FCC Clock Setup - Cont'd.

- On the Clock Set page, observe the button functions shown below to reset the date and time. Touch the number buttons to enter date/time.



- After saving the date and time, touch the **Main Menu** button to return to the Main Menu page, then touch the **Run** button on that page return to the FCC Home Page.

Related Manuals

Title	P/N
HydrX™ Fuel Conditioning System Install Manual	577014-446
HydrX™ Fuel Conditioning Controller Setup and Operation Manual	577014-466
HydrX™ Fuel Conditioner Mag Probe Replacement Instructions	577014-469
HydrX™ Fuel Conditioner Pressure Sensor Replacement Instructions	577014-470
HydrX™ FC Inlet/Outlet Filters Replacement Instructions	577014-473
HydrX™ FC Waste Water Tank Draining Instructions	577014-474

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Contact TLS Systems Technical Support for additional troubleshooting information at 800-323-1799.

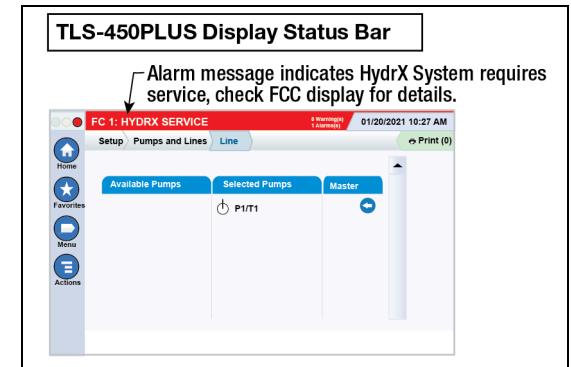
HydrX™ System Quick Help

This document focuses on maintenance alerts that occur with the HydrX System and what to do about them.

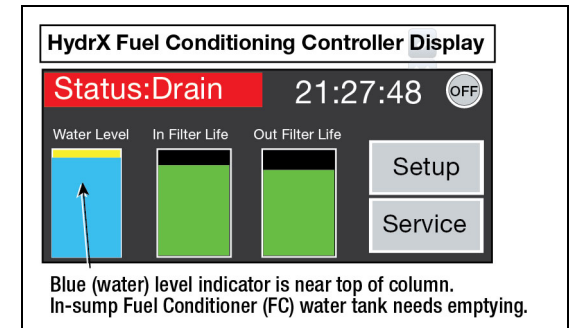
- ⚠ WARNING** Due to the presence of high voltages, pressurized fuel connections and hazardous work area dangers, only certified service technicians should attempt repairs to the HydrX System components and/or wiring connections. See Notice and Disclaimer on back cover.

HydrX System Alarm Notifications

HydrX System alarms appear in the TLS-450PLUS display Status Bar and turn on the console beeper. Touch the TLS-450PLUS display Status Bar to silence the alarm.



On the FCC display, alarms will turn the Status Bar red and the alarm will continue to scroll horizontally across the red bar until the alarm is resolved.



Always check the FCC display to identify alarms as the TLS-450PLUS does not differentiate between all HydrX System alarms.

HydrX System Alarm Troubleshooting

FCC Display Message	TLS-450PLUS Status Message	Cause	Action
Status: Drain	User programmed custom alarm, i.e., "HydrX Service"	HydrX water collection tank full	Drain tank (Refer to Manual 577014-474)
Status: Filter	User programmed custom alarm, i.e., "HydrX Service"	HydrX filter at end of life (EOL)	Replace filters (Refer to Manual 577014-473)
Status: Comm	User programmed custom alarm, i.e., "HydrX Service"	Persistent communications errors between FCC and TLS	Check TLS serial port settings: 9600 Baud, 7 Data Bits, Odd Parity, 1 Stop Bit
			Check serial cable connection between FCC and TLS. Check that the FCC is connected to the correct TLS serial port.
Status: Pressure Fault	User programmed custom alarm, i.e., "HydrX Service"	Insufficient STP pressure	Check for leaks at the filter covers, sensor ports or drain valve areas, particularly after servicing.
			Check inlet filter condition. If filter is clogged, replace inlet and outlet filters as per manual 577014-473.
			Measure pressure at STP Adaptor port connected to HydrX FC inlet. This should be greater than 20 PSI.
			Check STP power at contractors box.
Status: Vacuum Fault	User programmed custom alarm, i.e., "HydrX Service"	Insufficient STP vacuum	Check for leaks at the filter covers, sensor ports or drain valve areas, particularly after servicing.
			Measure vacuum level at HydrX FC WID port during a vacuum cycle. Vacuum should be -1.2 PSI, minimum.
			Measure pressure at STP Adaptor port connected to HydrX FC inlet - should be greater than 20 psi.
			Check STP power at contractors box.
Probe Out		FC Mag Probe inoperative	Replace Mag Probe (Refer to Manual 577014-469)
Comm Alarm		FC Pressure Sensor inoperative	Replace Pressure Sensor (Refer to Manual 577014-470)

Upgrading HydrX System Software

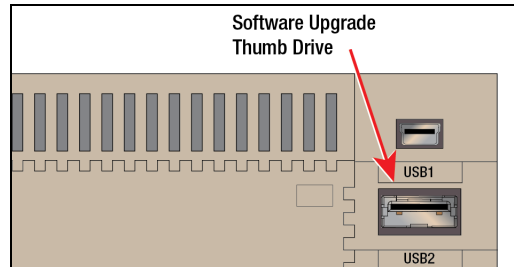
⚠ WARNING To avoid electric shock do not touch any wiring terminals inside the FCC while performing this procedure.



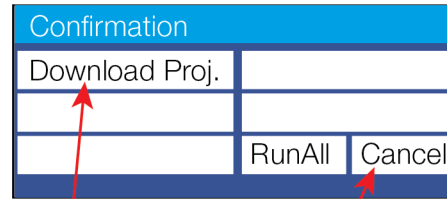
- If you have a FCC upgrade thumb drive with the software upgrade already on it, go to Step 3.
- If you have downloaded the FCC software onto a PC, insert a thumb drive into your PC and copy the HGDAT01 directory from your PC location to the root directory of the thumb drive (typically drive labeled D:).

NOTICE The USB is formatted as FAT32, so, your PC operating system must support the FAT32 file system to copy this file. Newer versions of MAC OS support this, but you should make certain if you are copying from a MAC. Specify that it is OK to overwrite the contents.

- Open the door of the FCC and with the power to the FCC On, plug the upgrade thumb drive into the FCC USB2 port on the rear of the FCC Display.



- When the Confirmation screen displays, touch the **Download Proj.** button to install the software upgrade.



Touch to install software upgrade

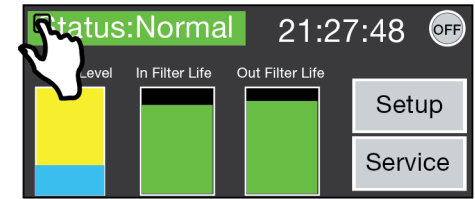
Touch to cancel and close screen

- The FCC will go through a series of steps loading the project contents into its memory. Wait for the Confirmation screen to return then touch **Cancel** to return to the Home screen.
- The new code and user interfaces are loaded on your FCC. Remove the thumb drive and close and secure the FCC cover.

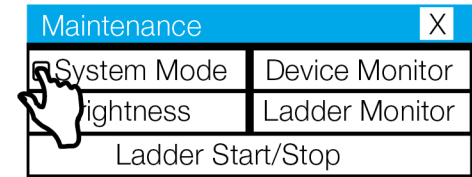
FCC Clock Setup

To set the FCC internal clock on initial startup follow the steps below.

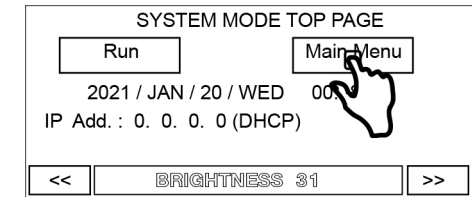
- Touch the upper left corner of the FCC display Status Bar and press it until the Maintenance screen appears:



- When the Maintenance screen appears touch the **System Mode** button to open the System Mode top page:



- On the System Mode Top Page, touch the **Main Menu** button:



- On the Main Menu page touch the **Clock Setting** button open the Clock Set page:

