



FLECK XTR2 FIELD PROGRAMMER

INSTALLATION AND OPERATION INSTRUCTIONS

The XTR2 Field Programmer allows you to connect a PC to the XTR2 control via USB for field programming and diagnostic data download. The Field Programmer application features a simple graphical interface for easy control programming.

SOFTWARE INSTALLATION

The following hardware and software is required to install the XTR2 Field Programmer application:

- Licensed copy of XTR2 Field Programmer installation file

Minimum system requirements	
Operating system	Windows 7, Windows 8, Windows 8.1, Windows 10
CPU	1 GHz
Memory	512 GB RAM
Hard drive	2 GB of free space

CAUTION Do not connect XTR2 before installing the field programmer.

To install the XTR2 Field Programmer application:

1. Locate the **FPA_Installer.exe** file included with your Field Programmer installation package. Double-click on the file to begin installation.
2. The InstallShield Wizard will appear, and will walk you through the rest of the installation process. Click **Next** to continue, and follow the prompts to complete the installation.



Figure 1 Field Programmer InstallShield Wizard

3. When installation is complete, the Pentair Field Programmer shortcut will appear on your desktop and in your Start menu.

4. Launch the Field Programmer application by double-clicking the desktop icon or selecting the Start menu item. The Field Programmer Master Programming Settings window appears.

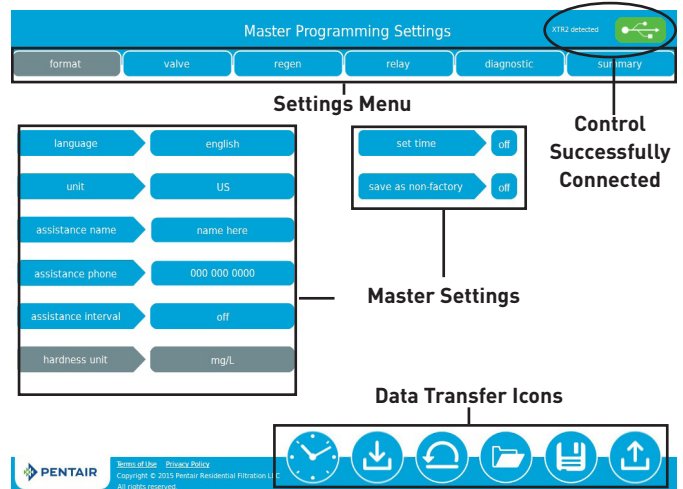


Figure 2 Field Programmer Master Programming Settings

FIELD PROGRAMMER FEATURES

The Field Programmer application features an easy to use graphical interface designed to complement the look and feel of the XTR2 control.

The main screen used when programming is the Master Programming Setting screen (see Figure 2). This screen can be divided into three main interface areas: the Master Settings Menu, Data Transfer Icons, and the Programming area.

Master Settings Menu

The Master Settings Menu organizes master settings parameters into several categories, listed below. Click the menu item to display the parameter set.

CAUTION Improperly adjusting master settings may cause the system to operate incorrectly.

NOTE: Please refer to the *Fleck 5800 or 5810/5812 XTR2 Service Manuals* for complete master settings procedures and parameter descriptions.

- **format:** Contains initial control setup and format settings.
- **valve:** Contains settings specific to the valve and system.
- **regen:** Contains settings specific to the selected regenerant flow.
- **relay:** Contains auxiliary relay settings.
- **diagnostic:** Displays diagnostic information that can be downloaded from the control.
- **summary:** Displays a summary of all programmed settings.

FIELD PROGRAMMER FEATURES *continued*

Data Transfer Icons

The data transfer icons at the bottom of the Field Programmer window enable you to transfer data between the XTR2 control and the Field Programmer application, or between the Field Programmer and your PC. The following icons appear at the bottom of the screen at all times regardless of the parameters selected.

Set Control Time



- Sets the time and day of week on the control to match the current time set on your PC.

Get Diagnostic Parameters



- Downloads diagnostic data from the XTR2 control to the Field Programmer application; can be viewed by clicking the **diagnostic** menu item.

Reset



- Resets any settings changed in the Field Programmer application to their default settings.

NOTE: Clicking the **Reset** button in the **Field Programmer** application does not reset any parameters in the **XTR2** control.

Open File



- Displays an **Open File** window that allows you to load a saved programming settings configuration file into the Field Programmer application.

Save Form



- Displays a **Save** window that allows you to save all settings programmed in the Field Programmer application to a configuration file stored on your PC.

Upload Program Settings



- Uploads all parameters set in the Field Programmer application to the XTR2 control.

Master Settings Programming

The Master Settings displayed in the Field Programmer Master Programming Settings window correspond to the settings available to be programmed in the XTR2 control. The displayed settings change depending on the Master Settings Menu item selected, or depending on the selected value of other settings. Please refer to the *Fleck 5800 or 5810/5812 XTR2 Service Manuals* for complete master settings parameter descriptions.

Updating Master Settings

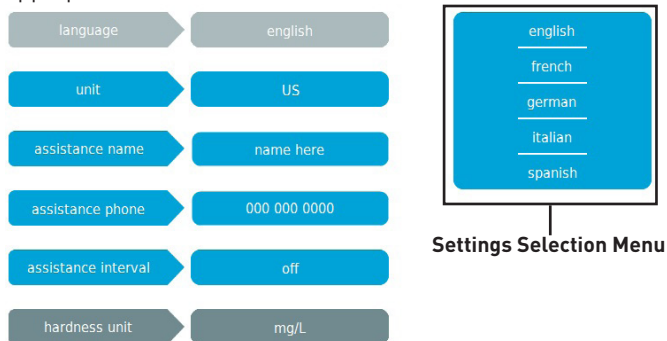
Field Programmer Master Settings are displayed with a label describing the setting, as well as its current value. Click either the label or the settings value to select a setting for

editing. Settings change from blue to light gray when selected. Settings that are displayed in dark gray are not editable based on current programming settings. Click anywhere in the Field Programmer Master Programming Settings window to de-select a selected setting.

The Field Programmer software accepts settings inputs differently depending on the setting type. The Field Programmer will display the appropriate options for the selected setting when clicked.

Selection Menu

Settings with a limited choice of values will display a menu showing each value available for selection. Select the appropriate value from the choices listed.



Settings Selection Menu

Figure 3 Selecting a Setting from a Selection Menu

Text Field

Settings that accept alphanumeric text will display a cursor when clicked. Use your computer keyboard to enter the desired information into the setting field.



Figure 4 Entering Text in a Text Field

On/Off Settings

Settings with only two options (i.e., either an ON or OFF state) can be toggled from one state to the other by clicking the setting.

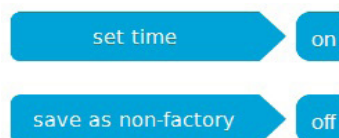


Figure 5 Turning Settings On or Off

Ranged Values

Settings that accept a range of numerical values will display up and down arrows on either side of the setting value. Click the arrows to increment the value up or down as necessary, or click the displayed value and type the desired value into the field.







Figure 6 Changing a Ranged Value Setting

NOTE: Hover your computer mouse over ranged values to display the programmable range accepted by the setting.

INTERFACING WITH THE XTR2 CONTROL

NOTE: See the *Fleck 5800 or 5810/5812 XTR2 Service Manuals* for complete XTR2 programming information.

Connecting to the XTR2 Control

1. From the XTR2 Control Home screen, press the Settings button  to display the Settings screen, then press the Settings button  again. A warning message appears.
2. Press  to continue to the Password screen. The Password screen displays a numeric keypad. Enter the master settings password **1201** and press  to continue to the main Master Settings screen.
3. From the main Master Settings screen press the **format** button to display the Format screen.

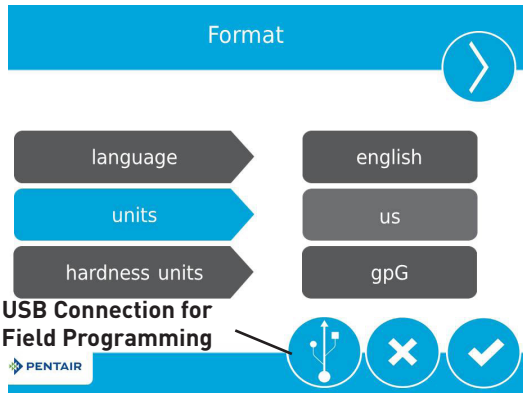



Figure 7 Format Screen

4. Press  on the Format screen to display the USB screen.



Connect the usb cable to the control and PC and start the field programming application



Figure 8 USB Screen

5. When the USB screen appears, connect a USB cable to the USB port on the control circuit board.

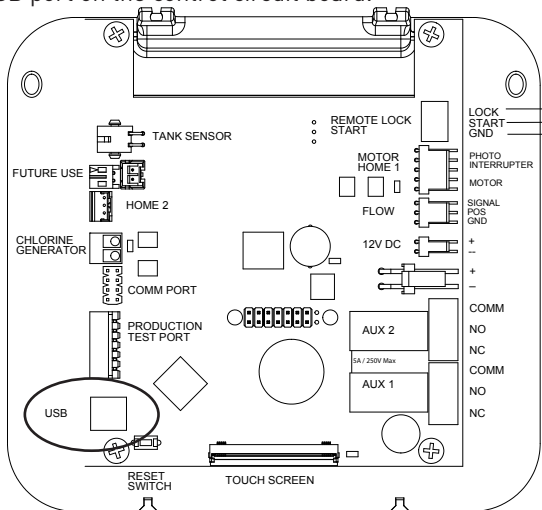



Figure 9 XTR2 Control Circuit Board

6. Connect the other end of the USB cable to the PC with the Field Programmer software installed.

NOTE: Do not remove USB cable from computer or control while connected and transferring data.

7. Upon initial connection of the control to the PC, your PC may configure the drivers necessary for connection to the control. Please wait until driver configuration is complete before continuing. A **connection established** message appears on the control screen when a successful connection to the PC has been made.

NOTE: Pressing the Settings button  on the XTR2 control will disconnect the control from the PC and return the display to the Master Settings screen. Do not press  until you are ready to disconnect.

8. If you have not already done so, launch the Field Programmer software on your PC by double-clicking on the Pentair Field Programmer icon or selecting the menu item from the Start menu. The Field Programmer Master Programming Settings window appears (see Figure 2).
9. When a successful connection between the PC and control has been made, the USB icon in the upper-right corner of the Field Programmer window turns green and displays the message **XTR2 detected**. You can now begin transferring data.



Figure 10 XTR2 Control Successfully Connected

Uploading Programmed Settings to the XTR2 Control




1. After all programming within the Field Programmer is complete, click the  icon in the Field Programmer application to upload all settings configured in the Field Programmer to the XTR2 control. A small window will appear showing progress of the data transfer. The application will display a message when transfer is complete. Click the message to clear it from the screen.



Figure 11 Communication Complete Message

2. Click the  icon in the Field Programmer application to set the time and day of week in the XTR2 control to match the time currently set on your PC. Click the **communication complete** message that appears to clear it from the screen.

Downloading Diagnostic Data to the Field Programmer Application

1. After establishing a connection between the Field Programmer application and the XTR2 control, click the  icon in the Field Programmer application to download diagnostic data from the control. Click the **communication complete** message that appears to clear it from the screen.

INTERFACING WITH THE XTR2 CONTROL

continued

- Click the **diagnostic** menu item from the Master Settings menu in the Field Programmer application. Diagnostic data, including a graph displaying daily average water usage from the previous four weeks, is displayed in the application window.



Figure 12 Diagnostic Data Display

NOTE: Diagnostic data displayed in the Field Programmer application is read only and is cleared upon exit of the application.

Saving and Loading Programming Configurations

Master Settings Programming configurations can be saved to a file on your PC for storage and easy retrieval. Common configurations can then be quickly and easily applied to control valves before being sent out to the field for installation.

To save a programming configuration:

- Click the in the Field Programmer application. The **Save** window appears.
- Type a name into the **File Name** field and click the **Save** button to save the file. If necessary, specify the location on your PC where you would like to save the file.
- Click the **Save** button to save the file.

- A success message appears when the file has been successfully saved. Click the **OK** button to clear the message.

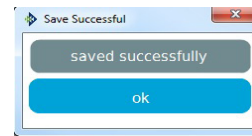


Figure 13 Save Successful Message

To load a saved configuration file:

- Click the in the Field Programmer application. The **Open** window appears.
- Navigate to the location on your PC where your saved configuration file is stored. Select the file and click the **Open** button. The saved configuration is loaded into the Field Programmer application.
- Upload the saved configuration to the control by following the procedure titled "Uploading Programmed Settings to the XTR2 Control" above.

Disconnecting from the Control

When all programming is complete, the XTR2 control will display a message stating that it is OK to disconnect from the PC.



programming complete
ok to disconnect



Figure 14 Programming Complete

NOTE: Do not press or disconnect the control until the above message is displayed on the XTR2 control.

Press the button on the XTR2 control to exit the USB screen and return to the Master Settings screen. Press the **settings review** button to review the settings that were uploaded to the control or press the button to return to the Home screen. The control can now resume normal operation.

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