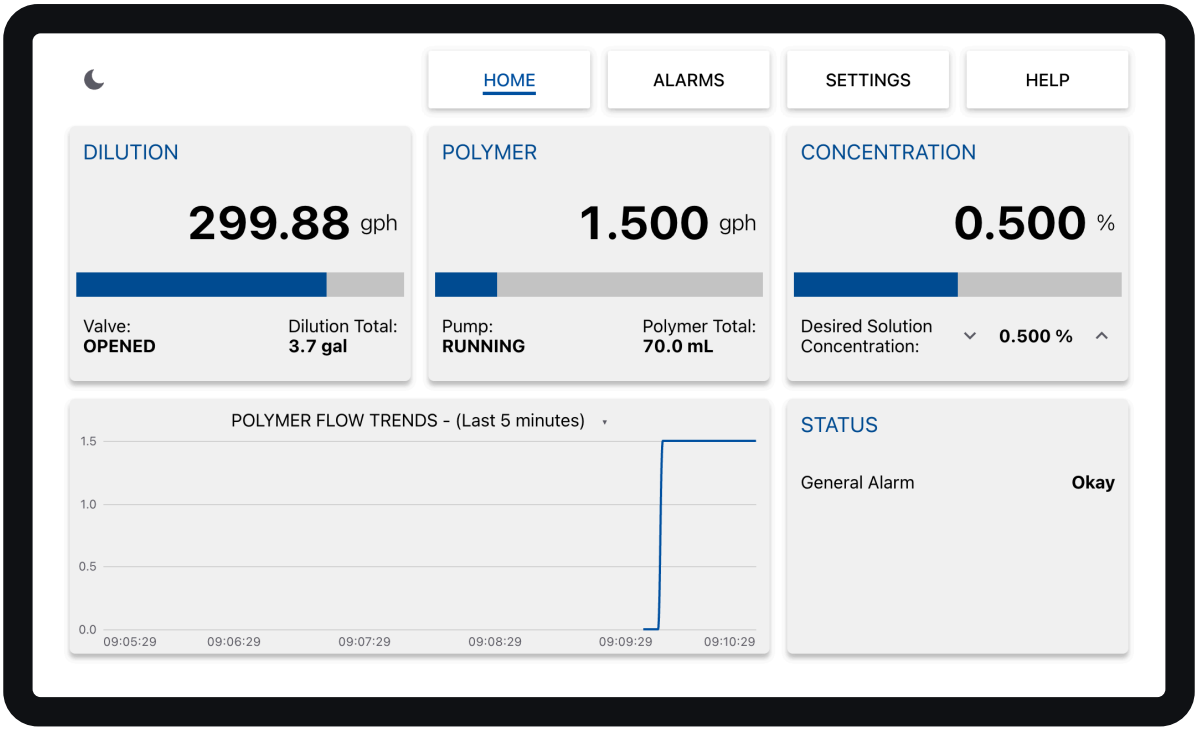
EXCELL FEEDERS

Cortex 7 Controller

Quick Start Guide

Operating the Cortex 7 touchscreen



© 2026 Excell Feeders, Inc.

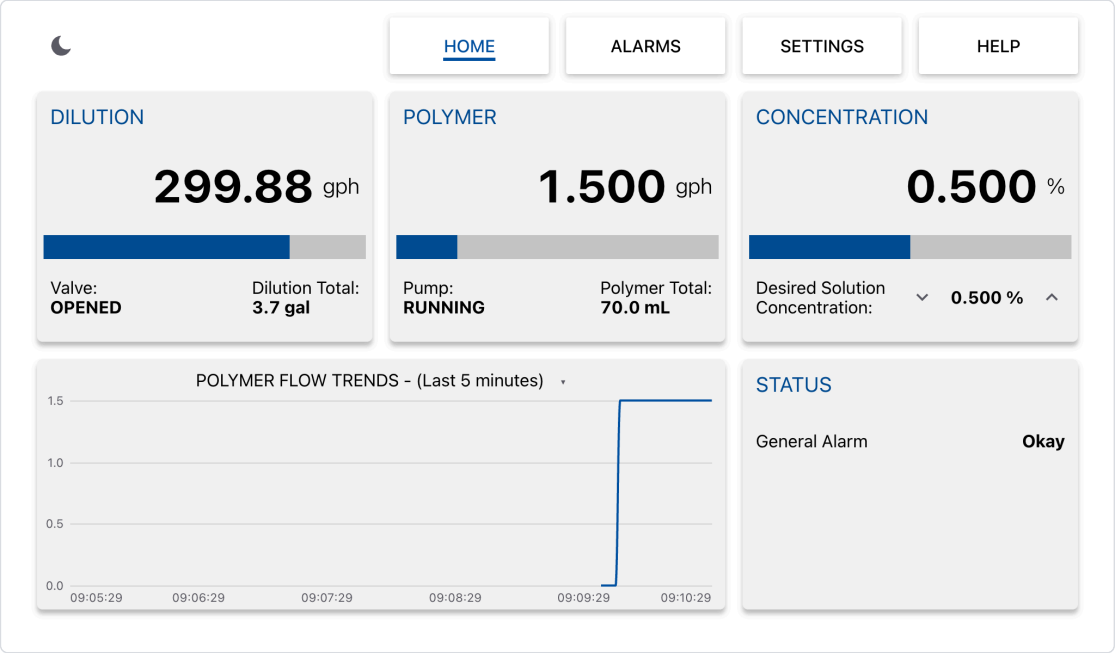
Quick start

This guide gets an operator from power-on to a running machine. The HMI Manual has the full details of every screen; the machine's own O&M manual has its modes, settings and alarms.

> **!** **CAUTION**
>
> Changes on the touchscreen go straight to the controller and can start or stop the machine's pumps and motors. Make sure it is safe before changing modes or setpoints.

1 Power on

Switch on the panel. The HOME screen appears after about a minute; no login is needed for normal operation.



The HOME screen of a 6PSevo

Button	Shows
HOME	The machine at a glance: its flows, states and totals, a 5-minute trend and its status.
ALARMS	Active alarms and the history of alarms, events and changes.
SETTINGS	The machine's modes, setpoints and configuration, by section.
HELP	Inputs and outputs, controller status, versions, then the machine's own help.

2 A new controller

If the touchscreen shows **SET UP THIS CORTEX 7** instead of HOME, the controller has no application yet and every output is off. Tap **Install** on the tile of the machine and model it runs, enter the service PIN and confirm. After about half a minute HOME appears, on the machine's factory settings.

3 Choose how the machine runs

Tap **SETTINGS**. The list on the left picks a section; the first holds the machine's modes. Tap a mode and choose from the list: it takes effect at once. The machine's O&M manual explains each mode.

4 Set the setpoints

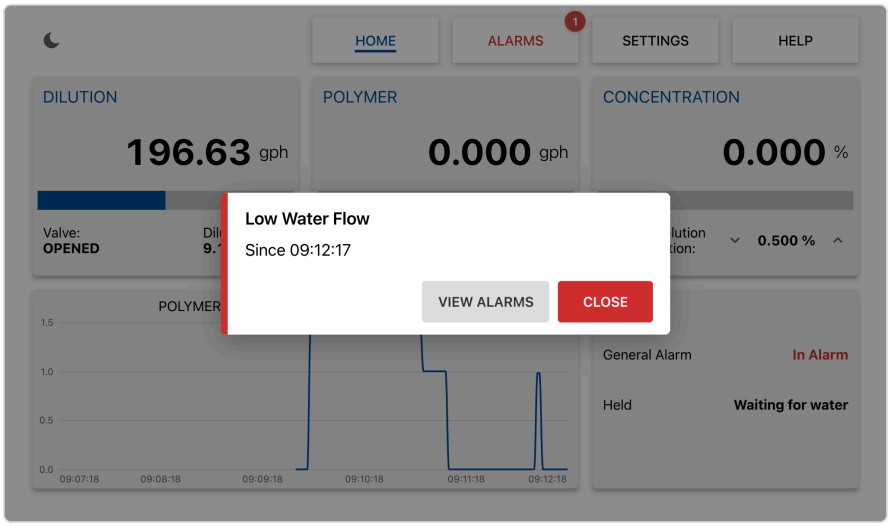
1. Tap the pencil next to a setpoint.
2. Type the new value on the keypad and tap **Enter**. The keypad shows the allowed range.
3. The value shows as pending until the controller confirms it.

Some setpoints can also be changed on HOME with the ‹ › buttons beside them.

5 Respond to alarms

1. A pop-up shows the alarm and the **ALARMS** button turns red. Tap **View Alarms**.
2. Correct the cause: the O&M manual lists what to check for each alarm.
3. Tap **Acknowledge All** on the ALARMS screen.

A **latched** alarm keeps what it stopped stopped after the cause is fixed, until **Acknowledge All** (or **Reset Latched**) resets it. Closing the pop-up does not reset it.



An alarm pop-up

The ALARMS screen also keeps a full history of alarms, events and setting changes.

6 Check inputs, outputs and versions

HELP shows every input and output, the controller's status and the versions (Cortex OS, HMI, application and controller firmware), then the machine's own help, such as its maintenance counters.

7 Service functions

Software updates (the panel, the controller firmware and the application), the application and its model, backups, date and time, calibration, network, plant connections (Modbus TCP, EtherNet/IP) and clearing the alarm history are on **HELP → Service**, protected by the service PIN. Input and output functions are on **SETTINGS**, in the Inputs and Outputs sections.

- The service PIN is **1234** when delivered. Change it at commissioning (SERVICE → **Change PIN**).
- The service login locks itself after 15 minutes without use.

8 From a computer

Open a browser at **http://<panel address>/console** (address on HELP → RESOURCES) for the Cortex Console: trends, logs, the application, backups, updates and remote support. Browsers show the HMI in view-only mode until unlocked with the service PIN. The Cortex 7 Console Manual covers all of it.

Need help?

Excell Feeders support: support@excellfeeders.com, 732.828.8655. Have the panel's host name and versions ready (HELP). Support can connect remotely when you allow it: Cortex Console → Network → Remote support → Connect.