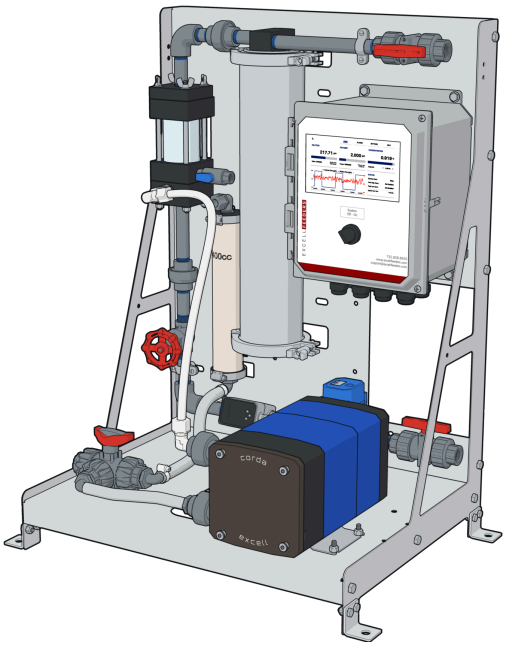
EXCELL FEEDERS

Quick Start Guide

6PSevo

Installation and first start-up

From the crate to a running feeder. The 6PSevo Operating Manual (O&M) has every detail; the Cortex 7 Quick Start Guide covers the touchscreen.



> **Safety.** Disconnect power before opening the electrical enclosure or servicing the feeder, and follow your site's lock-out / tag-out procedures. Wear the eye, face and hand protection in the polymer's SDS.

1 · UNPACK

- Check the shipment against the packing slip. Spare parts and accessories may be in a separate carton.
- Report any damage to the carrier at once, and any missing parts to Excell Feeders.

2 · PLACE THE FEEDER

- Indoors, 40 to 104 °F (5 to 40 °C), protected from freezing. Spray or dripping water is fine; flammable vapors or dust are not.
- On a level concrete floor, anchored through the 4 bracket holes, near the water supply and the polymer tank. Leave the front panel easy to reach.

3 · PLUMB IT

- **Water in:** a clean supply to within 5 ft, at 30 to 60 psig, at least 30 psig above the injection point, 100 °F (38 °C) at most. Hose is preferred. Fit a local shutoff valve, and a backflow preventer on potable water.
- **Solution out:** hose or pipe rated 100 psig or more, as large as the feeder outlet, to the point of injection. No clear unreinforced vinyl tubing.
- **Polymer in:** gravity fed from less than 5 ft above the feeder, or a suction lift of 4 ft at most. Fit a shutoff valve and a polymer strainer.
- Support every line so it does not stress the feeder's connections.

4 · POWER AND SIGNALS

- Plug the 8 ft cord (NEMA 5-15) into a grounded, GFCI-protected 120 VAC receptacle.
- Plant signals are optional; see page 2.

5 · START UP

1. Check that fittings and wires are tight and the valves are set to run, with the drain valves closed.
2. With the SYSTEM switch OFF, apply power. HOME appears in about a minute.
3. Turn on the water and fully open the water flow control valve.
4. Open the polymer valves to the metering pump.
5. Tap **SETTINGS**, then **Operation**, then **Prime Polymer Pump**: the pump runs 60 s to fill itself and its line. Keep the discharge open.
6. Under MODES, set **Start/Stop** (Local or Remote) and **Pump Speed** (Local, Auto or Remote).
7. Set the setpoint: **Local Polymer Flow** for Local, **Solution Concentration** for Auto.
8. Turn the SYSTEM switch ON. Water flows, and the pump starts once the dilution flow is above the Low Water setting.
9. Check for steady polymer suction, smooth flow from the discharge and no leaks.

PLANT WIRING

Disconnect power before opening the enclosure. Terminals are on TB1 and TB8 inside the Cortex 7; the controller board figure in the O&M (section 4.5) shows where. Every input and output can be given another function on the touchscreen (O&M sections 7.5 and 7.6).

Terminals	Connection	Factory function	Wire
TB1/2–3	DI1	Feeder Enable	Factory wired to the front-panel SYSTEM switch. The feeder runs only while it is on.
TB1/5–6	**DI2**	**Remote Start**	A normally open dry contact from the plant. Not polarity sensitive. Used when Start/Stop is Remote.
TB1/23 (+), 24 (–)	**AI2**	**Remote Speed**	A 4–20 mA signal from the plant, 250 Ω total loop resistance at most. Used when Pump Speed is Remote.
TB1/31–32	AO1	Polymer Flow	4–20 mA retransmit of the polymer flow, to the plant.
TB8/R3	DO3	General Alarm	Relay contact to the plant: normally open, 277 VAC / 30 VDC, 10 A.
TB8/R4	DO4	Running Indication	Relay contact to the plant, rated as DO3.
TB1/19–21	AI1	Dilution Flowmeter	Factory wired.
TB1/13–14	DIO5	Dilution Command	Factory wired to the dilution water valve.

REMOTE START

1. Set Start/Stop to **Remote**.
2. Wire a normally open contact between terminals 5 and 6.
3. With the SYSTEM switch ON, the feeder runs while the contact is closed.

REMOTE SPEED

1. Set Pump Speed to **Remote**.
2. Wire the 4–20 mA source to terminals 23 (+) and 24 (–).
3. 4–20 mA spans the pump's range, 0 to 7.925 gph, unless a custom range is set (O&M section 7.4). Below 4.1 mA the pump stops.

BEFORE YOU LEAVE

- Change the service PIN (SERVICE → Change PIN).
- Set the date, time and time zone.
- Calibrate the metering pump (O&M section 10.2).
- Set alarm delays and latching to suit the site.
- Save a settings backup, and a device backup from the Cortex Console.

GETTING HELP

Excell Feeders support: support@excellfeeders.com, 732.828.8655. Have the feeder's serial number and the software versions ready (HELP → VERSIONS). The O&M, the Cortex 7 manuals and this guide are at excellfeeders.com, and the touchscreen's HELP screen shows the feeder's own help.

SIZE AND MOUNTING

Size	25.66 W × 18.44 D × 32.00 H in (652 × 468 × 813 mm) with the mounting brackets; the 6PSevo 400 and 1200 share the frame
Floor anchors	4 bracket holes, Ø0.50 in (12.7 mm), on 24.41 × 16.29 in (620 × 414 mm) centres. The data sheet has the dimension drawing
Weight	88 lb (40 kg)

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