

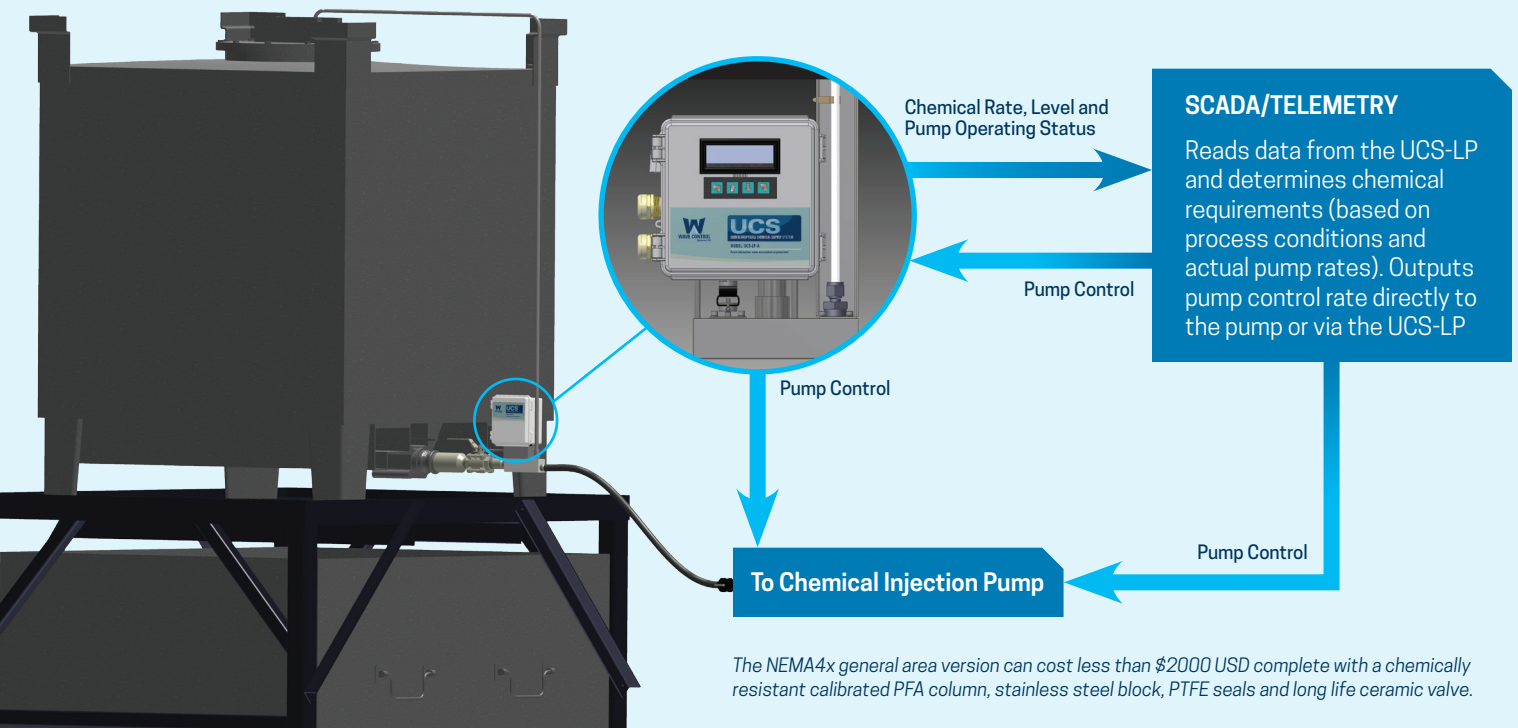
The UCS-LP reduces your operating costs and environmental footprint while improving safety.



**Compact, economical, efficient. Introducing UCS-LP.** The majority of unconventional operations in the Alberta oil sands already rely on the original UCS system for optimizing chemical programs. Now, the UCS-LP extends this to smaller scale operations with chemical feed rates ranging from a few drops to gallons per minute.

## UCS-LP advantages include:

- Reduced need for site visits
- Immediate confirmation of pump and inventory issues
- No calibration required; no need for a “glass” tank level gauge
- Easy installation - just thread into the tank, connect PFA column, connect wires, enter chemical density into UCS-LP or Scada, and power up!
- Real-time chemical drawdown confirmation
- Eliminate over-dosing
  - lower cost, logistics, enviro footprint
- Eliminate under-dosing
  - lower risk of non-compliance
- Chemical paid for = chemical used

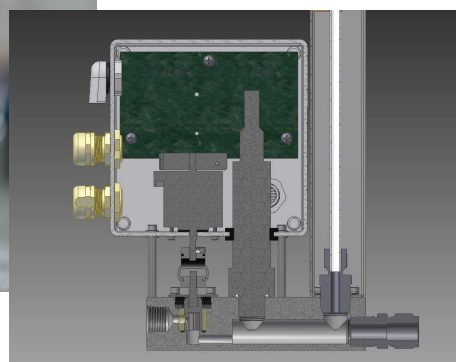
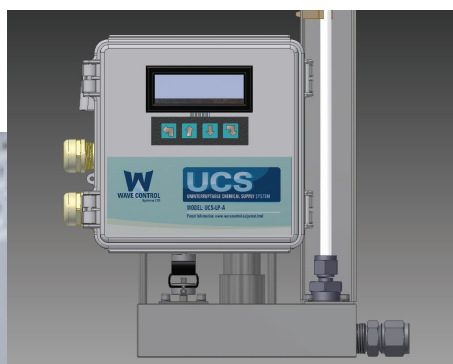
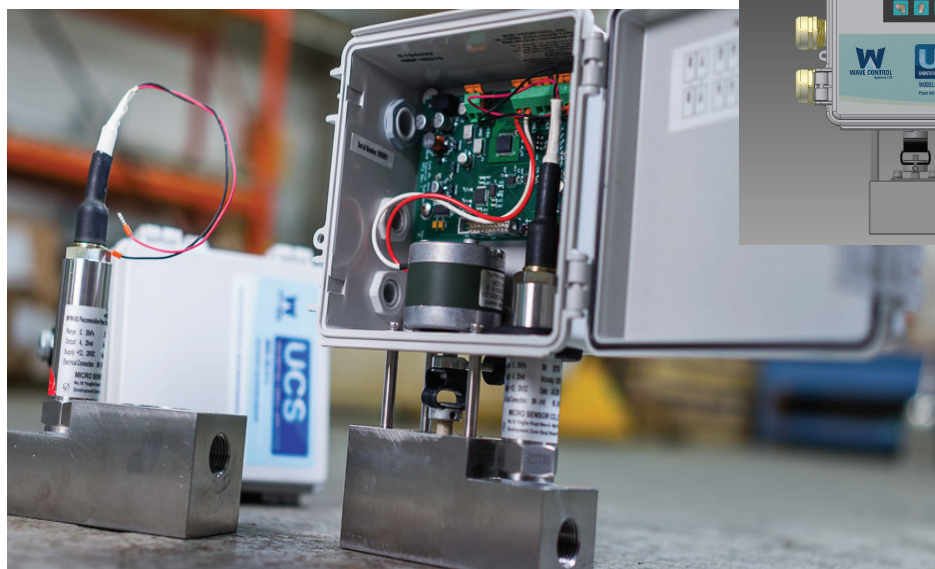


*The NEMA4x general area version can cost less than \$2000 USD complete with a chemically resistant calibrated PFA column, stainless steel block, PTFE seals and long life ceramic valve.*

Our patented automated drawdown system saves time and money while increasing reliability of remote chemical injection programs. Proper management of these programs is a critical factor for maximizing reliability and production, and, consequently, the economic value of a well. Operators must balance costs of frequent site visits and/or routine over-injection in order to maintain a safety margin against the hazards of under-injection.

Currently, chemical flow is manually confirmed by visiting each site and performing a “drawdown” (allowing the pump to draw from a calibrated liquid column) for each chemical pump. The Wave Control UCS-LP automates this

procedure, and performs it repeatedly, 24/7, reporting the measurements and optionally adjusting the pump speed to match the targeted rate. Unlike flow meters, that have difficulty dealing with low, intermittent, or pulsating flows and temperature-dependent viscosities; the UCS-LP precisely measures the weight of the fluid pumped from a calibration column over time. It also reports the feed tank level and can even be set up to directly drive a solenoid pump or PWM controller.



UCS-LP-A with local control and cutaway of fluid chamber. (The shroud around the coupling between the block and control box is omitted for clarity.)

**Wave Control provides custom engineering and manufacturing of a wide variety of fluid handling, chemical injection, metering, monitoring, and mixing systems.**



**Your trusted partner in fluid handling and control.**

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Contact our sales team at +1 (780) 468-4320 ext 1 or [sales@wavecontrol.ca](mailto:sales@wavecontrol.ca)