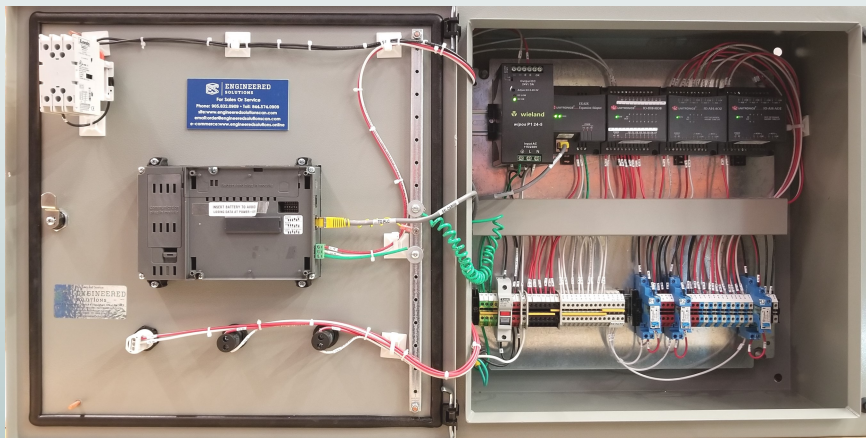
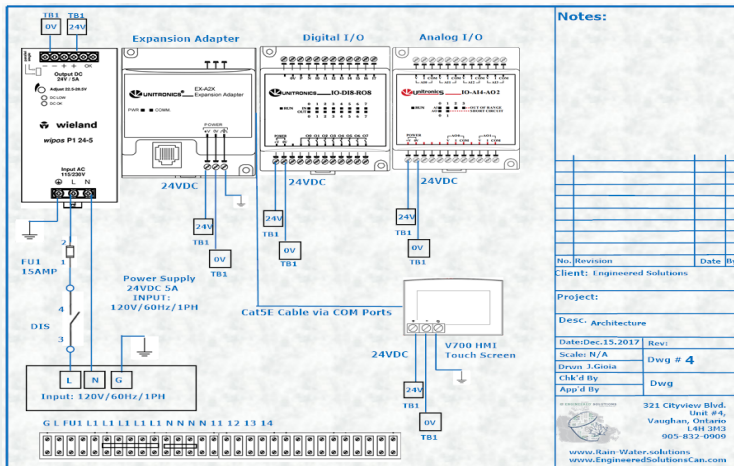


# Control Panels

## System Designed Control Panels

## Rainwater Pump Control Systems



Engineered Solutions

**Saving Water Across Canada**



# ES 4000

## Control Panel

## ES Model 4000 Control Panel

The Engineered Solutions Model ES 4000 Control Panel was incorporated to be used in conjunction with the Engineered Solutions Rainwater Collection system. This controller monitors, adjusts, regulates and reports your data on the system operation through a BACnet, direct Ip address connection or the color LCD display.

This controller displays the pertinent information on the 7" color touchscreen by using multiple operational system screens. From the main screen, you can maneuver through the different operations viewing the status of flows, pressures and be able to adjust the current setting manually. The alarm screen will show any issues that may be occurring in the system and send notifications by multi-methods or alarms. This unit has a manual reset button on the main screen to reinstate the initial program setting.

ES 4000 Control Panels can be specially Engineered to adapt to meet your every Booster Pumping, Condensate Pump, Rainwater requirements or special control panel needs.

All panels are CSA inspected and Certified by ESA



In compliance with CSA Standard CSA SPE-1000-13



Inspected, Tested and Certified by ESA Ontario



Engineered Solutions Canada

Don't let life slip down the drain

# ES 4000

## Control Panel Spec's

### Enclosure Specifications

ES 4000 Control Panels offer as the standard:

- Steel Nema 4 Enclosure (other Nema casing available)
- On-off disconnect switch
- Manual key lock
- Red alarm light,
- Green ok light,
- Circuit breaker fuses
- 9' supply power cord for 120v/220v system,
- Built to CSA standards and tested and approved by ESA

### Programmable Logic Controller

- I/O options include high-speed, temperature & weight measurement
- Auto-tune PID, up to 24 independent loops
- Recipe programs and data logging via Data Tables
- Micro SD card – log, backup, clone & more
- Date & time-based control

### HMI Interface

- Input 12 or 24VDC
- 7" Touch Screen
- HMI graphs – 800 x 480 TFT, LCD Display color-code Trends
- Built-in alarm screens
- Memory and communication monitoring via HMI – No PC needed



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It takes a lot of blue to stay green

## Control Panel

### Communication Options Available:

- TCP/IP via Ethernet RJ45 connection
- Web server: Use built-in HTML pages or design complex pages to view and edit PLC data via the Internet
- Send e-mail function
- SMS messaging
- GPRS/GSM
- Remote Access utilities
- MODBUS protocol support
- BACnet, M-bus – via 3rd-party converter
- CANbus: CANopen, UniCAN, SAE J1939 and more
- DF1 Slave
- SNMP Agent V1
- FB Protocol Utility: enables serial or TCP/IP communications
- With 3rd-party device; barcode readers, frequency converters, etc.
- Ports: supplied with mini-USB programming port , 1 RS232/RS485 and 1 Ethernet port. 1 ports may be added: 1 Serial/Profibus and 1 CANbus

\* Access to and configuration of your Internet Firewall will be required for remote access

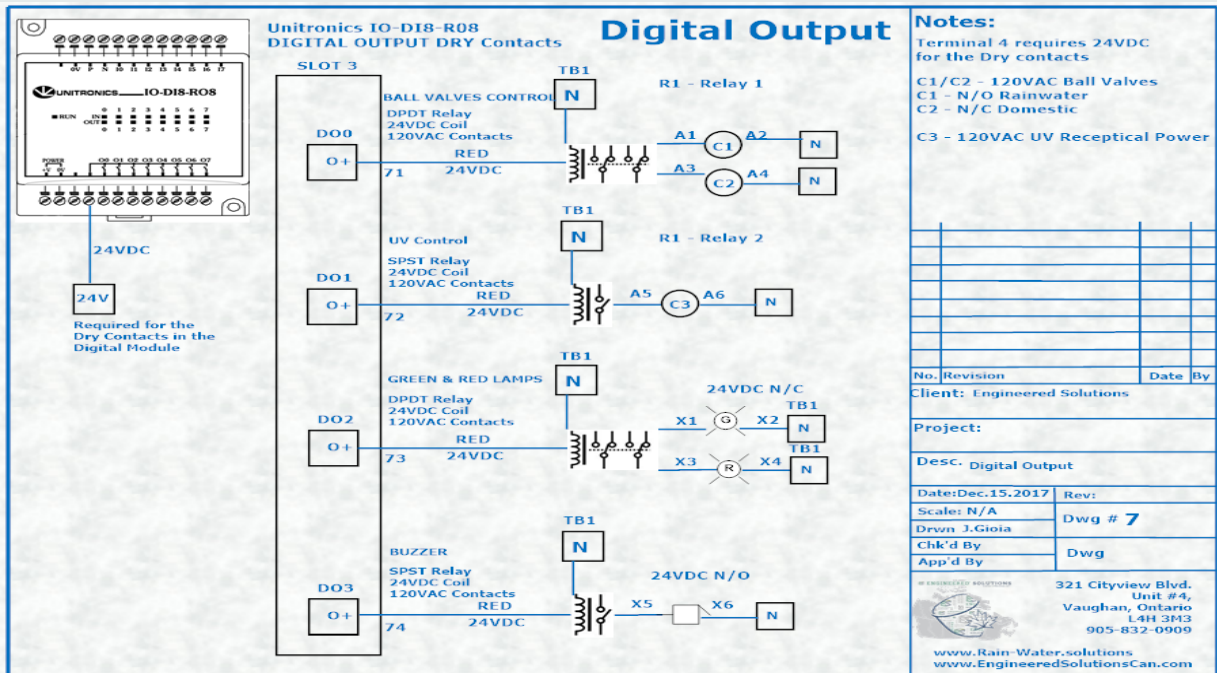
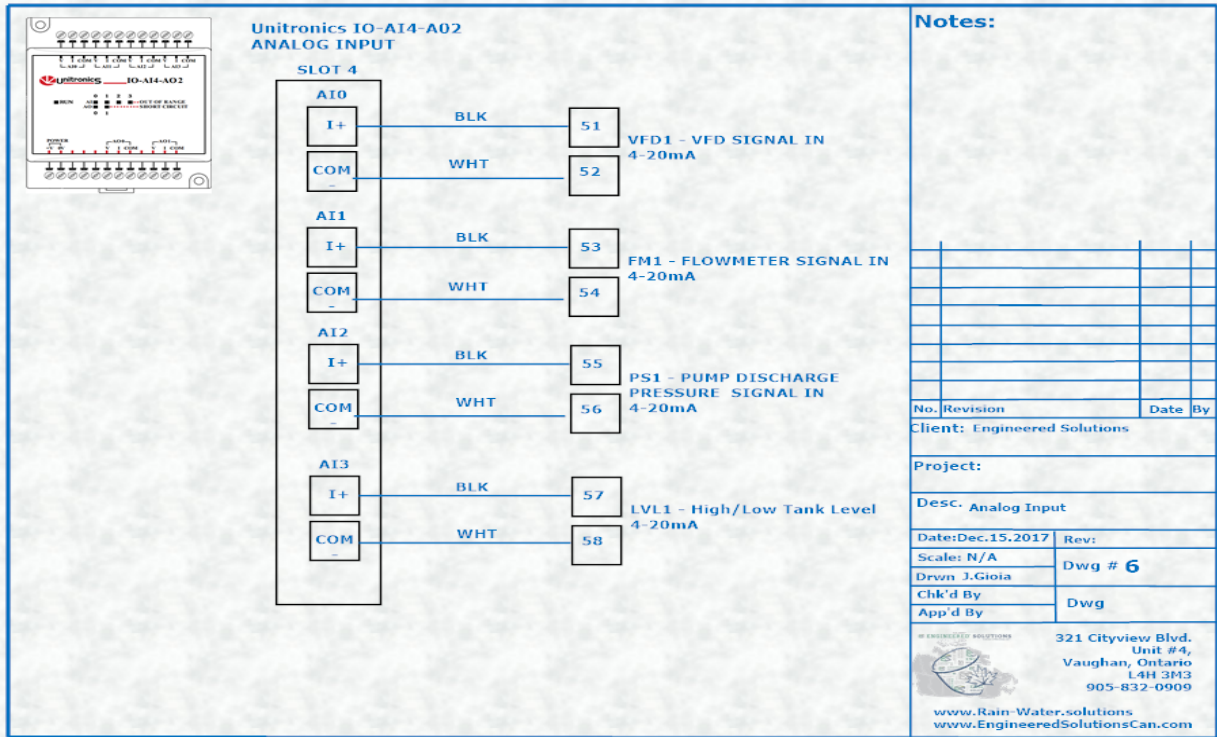


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Water, water everywhere but not a drop to drink



# Wiring Diagrams



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# Products

## System Design & Products



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# Products

System Design & Products

Can be purchased from

[www.EngineeredSolutions.online](http://www.EngineeredSolutions.online)

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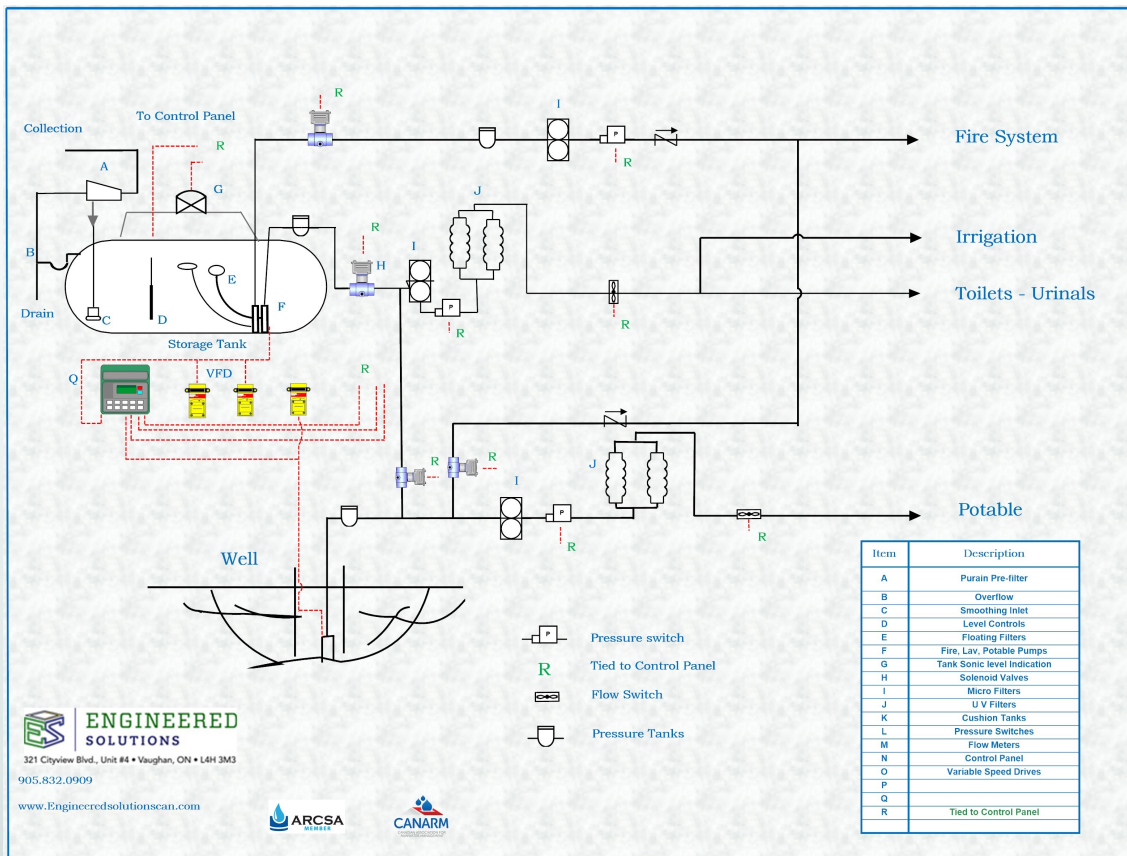
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# Panels

## Skid Packaged Pump Systems Designed to meet your needs



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321 Cityview Blvd, Unit #4  
Vaughan, Ontario L4H 3M3  
905.832.0909

[www.Rain-Water.solutions](http://www.Rain-Water.solutions)  
[orders@EngineeredSolutionsCan.com](mailto:orders@EngineeredSolutionsCan.com)

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