

DESIGNING YOUR SYSTEM WITH THE PROCONTROL **series 2^{plus}** Sanbom, Head & Associates, Inc.

Introducing Powerful, Affordable SCADA and Stand-alone Control for Solid Waste Applications.

The ProControl **series 2^{plus}** is a unique stand-alone controller, remote monitor, datalogger and alarm reporter in one compact unit, with numerous landfill infrastructure applications. It has been designed with the needs of landfill operators in mind; bridging the gap between simple, labor-intensive manual systems and expensive, complicated SCADA setups. It can be used for applications as diverse as operation and control of leachate pump stations to meteorological monitoring. What makes it so powerful is its easy-to-use operator interface, which uses a common platform for everything from the simplest monitoring tasks to complicated system control. A single ProControl **series 2^{plus}** can be used for a variety of purposes from monitoring and controlling leachate head on a liner system, to controlling a leachate treatment plant. Examples of uses in the solid waste industry are:

- **Leachate Pump Station Control and Monitoring** - The ProControl can be used to monitor leachate levels in sumps and activate pumps to remove leachate based on operator-input activation levels. The ProControl can be used to monitor leachate flow rates, receiving tank levels, and the temperature inside the pump station building. The ProControl can also be used to monitor the volume of leachate transferred off-site for disposal using trucks or a pipeline.
- **Leak Detection** - Liquid levels on secondary liners may be measured to monitor for potential primary liner leaks. Similarly, liquid levels in force main leak detection structures can be monitored using ProControl. If elevated liquid levels are encountered, the ProControl can alert personnel via fax or pager. The routine daily fax reporting option is also commonly employed.
- **Landfill Gas Extraction** - Ground flares, elevated flares, and other landfill gas control devices can be monitored and controlled, as well as the blower(s) and condensate management infrastructure. The ProControl has Proportional, and Proportional, Integral, and Derivative (PID) Control loop capability that can be used to vary the speed of the blower or other motors based on flare temperature, methane concentration, or other input data.
- **Leachate Treatment Plant** operations can be automatically controlled. Batch flow treatment process timing cycles, metering pumps, level controls, and flow rates can be incorporated into the ProControl logic to monitor and control these operations.
- **Environmental Reporting** - Data that is monitored by the ProControl is stored in the unit's internal memory. Information such as leachate production rates, by individual landfill cell may be downloaded and imported into spreadsheets or databases. In fact, SHA can develop applications to download leachate or gas data and import it directly into a report format required by a regulatory agency. The time required to manually transcribe and input environmental reporting data can be greatly reduced or eliminated when using a ProControl.

PROCONTROL **series 2^{plus}**

The ProControl **series 2^{plus}** can interface with almost any of your existing sensors or flow meters, so a large investment in new instrumentation is typically not necessary for retrofit applications. The ProControl is pre-configured to your system specifications by SHA. Retrofitting a ProControl to your existing controls and devices is straightforward due to the system's flexibility.

Additional applications for the ProControl **series 2^{plus}** include:

- Groundwater Remediation Systems;
- Potable Water Treatment, Storage, and Distribution Systems;
- Wastewater Treatment Systems;
- Meteorological Monitoring; and
- Other Automated, Data-Intensive Systems.

Please contact us to discuss your specific applications.



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