



TECH NOTE

INCREASE REVENUE WITH LOCI'S PRODUCTS AND SERVICES

Loci Controls—The Leader in Automated Landfill Gas Collection

Loci Controls is the leader in automated landfill gas collection. Our products provide remote well-field monitoring and control through a cloud-based software application that maximizes the collection of landfill gas. The Loci Controls' gas collection algorithm can be customized to maximize methane flow, subject to meeting user-specified gas composition specifications (i.e. for LFG to electricity, LFG to high-BTU pipeline, or LFG to liquid fuels).

Our product and service line is based upon wellhead-mounted hardware, a cellular data connection for wireless telemetry and control, and a web-based algorithm and analytics platform (which allows for real-time monitoring and remote control of the landfill gas collection process). Our hardware includes gas composition analysis (CH₄, CO₂, O₂, and balance gas), flow, landfill gas temperature, and differential pressure, as well as either active flow control or passive header monitoring.

CONTROLLER: The Controller is wellhead-mounted hardware with an onboard sensor package that remotely monitors differential pressure, flow, landfill gas temperature, barometric pressure, CO₂, CH₄, O₂, and balance gas (calculated; N₂ and trace gases), capable of delivering control precision down to tenths of a percent. Typically, hourly measurements are made, 24/7/365, with the Loci system. The Controller also features automated, precision controlled, ball valves that regulate flow at every well based upon Loci's control algorithm to maximize methane flow.

Applicability: Productive wells on high BTU sites.

GUARDIAN: The Guardian is wellhead-mounted hardware with an onboard sensor package that remotely monitors differential pressure, flow, landfill gas temperature, barometric pressure, CO₂, CH₄, O₂, and balance gas (calculated; N₂ and trace gases), capable of delivering precision down to the percentage point. The Guardian has similar capabilities as the Controller, but is designed for LFG to electric operations, or low flow wells at LFG to high BTU, where maximum CH₄ flow is desired, but gas composition requirements are not as precise as LFG to pipeline operations.

Applicability: LFG to electric operations, or low flow (less than 15 scfm) LFG to high BTU collection wells.

SENTRY: The Sentry is header mounted hardware with an onboard sensor package that remotely monitors landfill gas temperature, gas composition, and system vacuum. Flow measurements are captured by external pitot tubes or thermal flow meters connected to header. **Applicability:** All header locations where gas collection is aggregated from collection wells in a section of a landfill, or just upstream of the plant or flare.

WELLWATCHER® ANALYTICS PLATFORM

Our cloud-based analytics platform is accessible 24/7/365 by desktop, laptop, or tablet. The WellWatcher graphical user interface provides visibility of the landfill gas collection system in real time, improving safety, performance, and operations of the well-field system. User-configured data display and tracking, as well as custom set points and alerts (via text or email), allow for both landfill gas collection technicians and operations management to maximize revenue, reduce labor costs, and troubleshoot operational problems in the collection system—all while minimizing odors and fugitive emissions.



WHY LOCI CONTROLS?

With financial, operational, and environmental benefits, Loci Controls' product/service suite helps streamline and optimize facility management and gas collection for power plant operators and landfill owners alike.



INCREASE REVENUE

- Maximize methane gas flow
- Optimize gas composition
- Automate real-time wellhead adjustment and data collection
- Boost plant uptime



DECREASE COSTS

- Lower labor costs for well-field tuning and O&M
- Reduce equipment maintenance costs



REDUCE RISKS

- Reduce fugitive LFG emissions
- Prevent significant maintenance issues



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