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# GILSON ENGINEERING LANDFILL & TRASH BURNER INDUSTRY GUIDE

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[www.gilsoneng.com](http://www.gilsoneng.com)



## Instrumentation and Control Products for the Waste to Energy Industry

### **PITTSBURGH, PA**

535 Rochester Road  
Pittsburgh, PA 15237  
p (412) 369-0100  
f (412) 366-1728

### **COLUMBUS, OH**

2697 Sawbury Blvd  
Columbus, OH 43235  
p (614) 889-2150  
f (614) 889-6038

### **CLEVELAND, OH**

4660 Main Hill Drive  
Seven Hills, OH 44131  
p (440) 543-0300  
f (440) 543-1230

### **CINCINNATI, OH**

10984 Main Street #1  
Cincinnati, OH 45241  
p 800-860-4499  
f (412) 348-3042

### **CHARLESTON, WV**

3501 MacCorkle Ave SE #143  
Charleston, WV 25302  
p (304) 342-0012  
f (304) 342-0085

### **TOLEDO, OH**

26953 Mingo Drive  
Perrysburg, OH 43551  
p (419) 874-1178  
f (419) 874-5333

### **LOUISVILLE, KY**

2149 Winston Avenue  
Louisville, KY 40205  
p 800-860-4499  
f 412-348-3042

### **East Lansing, MI**

535 Rochester Road  
Pittsburgh, PA 15237  
p 248-417-1102

### **ORLANDO, FL**

144 Harston Ct  
Heathrow, FL 32746  
p (407) 444-0334  
f (407) 444-0335

### **TAMPA, FL**

6329 Knob Tree Drive  
Lithia, FL 33547  
p 800-860-4499  
f (407)444-0335

### **MIAMI, FL**

1155 97<sup>th</sup> St #201  
Bay Harbor Is, FL 33154  
p 800-860-4499  
f (407)444-0335

### **JACKSONVILLE, FL**

12369 Burgess Hill Dr  
Jacksonville, FL, 32246  
p 800-860-4499  
f (407)444-0335

# Landfill



**Leachate Pump Station Level:** Siemens (Milltronics) [LR100](#) Radar, [HydroRanger](#) and [LUT400](#) Ultrasonics

**Leachate Flow:** Siemens [5100W/1100](#) Inline Magmeters and Signet [2536/2551](#) Paddlewheels/Insertion Magmeters

**Biogas or Gas to Flare-off:** FCI [ST51/80](#).

**Methane Gas Detection:** MSA [X5000](#)

**Leachate Tank and Methane Recovery Tank Level:** Siemens (Milltronics) [LR100](#) Radar, [HydroRanger](#) and [LUT400](#) Ultrasonics

**Cell Level:** Dwyer [SBLT/FBLT](#) submersible and Siemens [LH300](#) submersible

**Leachate Runoff pH:** Signet [2750/2751/2724/2726](#) and ECD [T80/S80](#)

**Leachate Valves:** Signet [567 Butterfly Valves](#), [546 Ball Valves](#) or [EA](#) Actuators

**Leachate Pressure Gauges:** Wika [Pressure Gauges](#)

**Chart Recorders:** [Brainchild GR Series](#)

**Remote Areas to Control Room (Pump Stations and Other):** Elpro [915U/905U](#) and OmniSite [Crystal Ball/XR50](#) Remote Cellular Monitors

**VFD's & Pump Alternating Control:** Precision Digital [765/6000](#) and LSIS [H100](#)



## Trash Delivery and Tipping Floor



Incoming Trash Conveyors: Siemens [MSI/MMI](#) and [motion sensing probes](#)

Methane Gas Detection: MSA [X5000](#) and [OPIR](#) open path detector

Flowmeters for Service Water: Siemens [5100W](#)

Wireless I/O and Gateways (Crane Cab and Other): Elpro [915U/905U](#) and Banner [DX Series](#)

Pressure Sensors for Hydraulic Oil and Water: [ITT NeoDyn](#) and Siemens [P320](#)

## Combustion and Boilers



Pressure in Boiler, Drum or Heater: Siemens [P320](#)

Condensate Water for Boilers: Siemens [FS230](#), Turbines Inc [HA](#) and Macnaught [MX](#)

Drum and Heater Level: Siemens [P320](#) and QuestTec [LT210/220](#)

**Deaerator and Hot Well Level:** QTS [Magnetrac](#)

**Steam and Compressed Air Flow:** FCI [ST51/ST80](#), Siemens [P320/FS230](#) and Comate [VFM 60](#)

**Boiler Tube, Water/Steam and Air Temperature Sensors:** Moore [RTI](#) and [Smart Sensors](#)

**Steam Valve Positioners:** Siemens [PS2/PS100](#)

**Steam Regulators and Control Valves:** Jordan [Mk75](#) and [Mk 60](#)

**Boiler Room Natural Gas and NH3 Detection:** MSA [X5000](#)

**Liquid Boiler Analytics:** ECD [T80/S80](#), Signet [2750/2724](#)

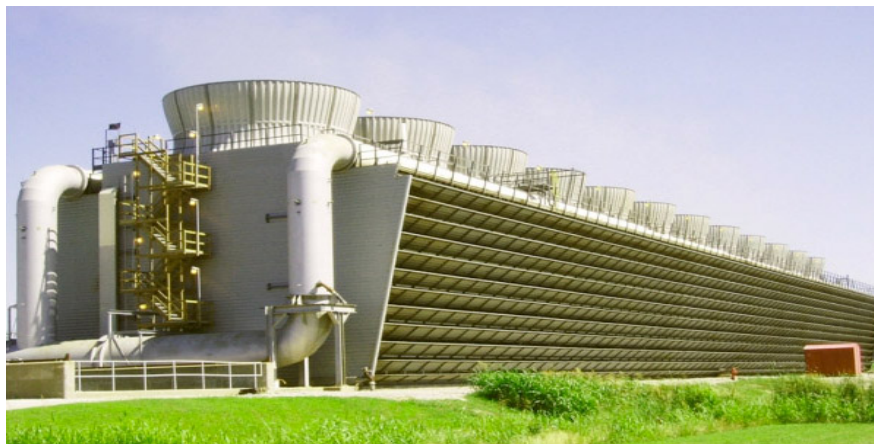
**PID Control and Alarm Trips:** Moore [535/SPA/STA](#)

**Wireless and Valve Automation:** Banner [DX Series](#), Elpro [915U](#), and Signet [EA](#)

**Data Acquisition Systems for Temperature, Load etc:** [Gilson GR PR](#)

**Oil Flow Measurement:** UFM [MN Series](#) Vane Style Meters, Turbines Inc [TM Series](#), and Macnaught [Positive Displacement MX Series](#)

## Cooling Towers and RO Areas:



**Filter Screen, Basin and Tower Level Controls:** Siemens (Milltronics) [LR100](#) Radar, [HydroRanger](#) and [LUT400](#) Ultrasonics, [Gilson Submersible Level](#) Transmitters

**Pump Motor Bearing and Winding Monitoring:** Moore Industries [RTI-1](#) and [RTI-2](#), Temp Sensor Kits [RTI-3](#)

**Cooling Tower and RO Skid pH, Conductivity and Other Analytical Monitoring:** Signet [2750/2751/2724/2726](#) and ECD [T80/S80](#)

**Loop Controls for pH & Conductivity, Levels, Flows:** Moore Industries [535 Controller](#), Precision Digital [PD765](#), [PD6000](#), and [PD6060](#)

**Valve Positioners:** [Siemens 760](#) and [PS2](#)

**Cooling Tower and Service Water Flowmeters:** Siemens [P320/FS230](#) and Comate [VFM 60](#), Siemens Mag [5100W](#), Signet Insertion Mags [2551](#) and [2552](#)

**Flow Totalizers:** Moore Industries, Precision Digital [PD6200](#), [Fluidwell](#)

**Valves for Flow Control and Pressure Regulation:** Jordan [Mark 70](#) and [Mark 67](#)

**Cooling Tower Flow Switches:** FCI [FLT93](#)

**RO Skid Flow:** Siemens [5100W/1100](#) Inline Magmeters and Signet [2536/2551](#) Paddlewheels/Insertion Magmeters

**RO Skid Valves:** Signet [567 Butterfly Valves](#), [546 Ball Valves](#) or [EA](#) Actuators

## Ash Handling



**Flyash and SDA Hopper and Feed Chute Levels:** Ronan [Point Level](#) and Siemens [CLS/LVL200](#)

**Flyash Silos:** Siemens [LR560/LR100](#)

**Economizer, Precipitator, Hopper Temperature Sensors:** [Smart Sensors](#)

**Precipitator Power Consumption Monitors:** Moore Industries [PWT](#)

**Baghouse Differential Pressure & Suction Sensors:** Siemens [P320](#) and [ITT NeoDyn](#)

**Hopper Heater Controls:** [Gilson Recorder GR PR](#), Precision Digital [PD765](#) and [Minimux PD138](#)

**Alarm Beacons and Horns:** [E2S](#)

## Acid Tanks and Granular Silos



**Acid & Caustic Level Sensors:** Siemens [LR100 Radar](#), [LR250FEA Radar](#), [HydroRanger](#) and [LUT400 Ultrasonics](#)

**NH3 Bullet Gas Detection:** MSA [X5000](#) and [TG5000](#)

**Lime Slurry Density:** Ronan [X96S](#), Rhosonics [9690/SDM](#)

**Lime Slurry Flow:** Siemens [5100W/1100](#) Inline Magmeters

**Raw Product Level (Lime and Activated Carbon Silos):** Siemens [LR100](#) and [LR560](#) Radars, Siemens [CLS/LVL200](#) Point Level Controls

**Wireless Telemetry:** Elpro [915U/905U](#) and Banner [DX Series](#)

**VFD's & Pump Alternating Control:** Precision\_Digital [765/6000](#), LSIS [H100](#)